

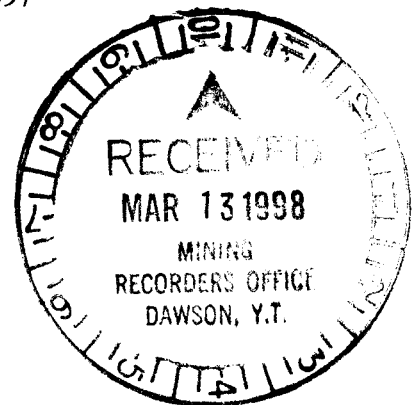
BREWERY CREEK PROJECT
1997 GEOLOGICAL, GEOCHEMICAL,
TRENCHING AND DRILLING REPORT
ON THE BDM, EEL, FLEE, ELE AND LEE CLAIMS
VOLUME I - TEXT

093 820 1/3

Dawson Mining District
N.T.S. 115 O/16 and 116 B/1

Latitude: 64°02'N
Longitude: 138°15'W

Owner: VLB Resource Corporation
Date of work: March to November 1997



Author: Rick Diment, P.Geo.
February 10, 1998

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 \$ 288,400.00 .

M. Barb

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

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VOLUME III

Trench and Drill Logs

Executive Summary

Aggressive exploration totalling \$2.2 million was conducted from March through October of 1997 on the Brewery Creek Property, a heap leach gold mining operation 57 kilometres east of Dawson City, Yukon. Work focussed on defining additional oxide resources around existing deposit areas and other exploration zones within a feasible haul distance to the leach pad. The program was successful in adding 483,205 oz. to the geological resource base bringing the remaining total for the property to 42.3 MT averaging 1.01 gpt Au (1,378,240). These significant additions were realised in the SE Lucky Zone (1.71 MT @ 2.63 gpt Au), Classic Zone (10.9 MT @ 0.52 gpt Au), North Slope Zone (2.2 MT @ 2.01 gpt Au) and the Bohemian Zone (0.36 MT @ 0.99 gpt Au). Oxide mineralization remains open ended along strike in all zones. Drilling and sampling in the West Big Rock and West Grid Zones returned erratic low grade results and as a result does not figure significantly in expanding the oxide resource base. Work 4 kilometres east of the Bohemian Zone returned intercepts of 0.5 gpt Au over 20 metres in oxidised sills and several intercepts of 1 to 3 gpt Au over narrow one metre shears in Steel Formation siltstone.

Trenching and drilling also discovered high angle NNW brittle faults in the Moosehead, Lucky and East Big Rock Zones which both control and down drop mineralization, suggesting movement during and after the main mineralising event. In the Moosehead Zone these faults bound a unique structural block juxtaposing Cambrian phyllites against Devonian shales suggesting hundreds of metres of dextral displacement. Drill hole intercepts within intrusive fault breccia of 2.63 gpt Au over 14 metres in the North Slope Zone and a four metre intercept of 5.2 gpt Au at the bottom of a drill hole in the Lucky Zone suggest that these NNW structures may represent deep seated feeder structures for the E-W trending fracture controlled mineralization across the Reserve Trend.

A \$1.9 Million exploration program is proposed in 1998 to expand oxide resources around existing deposit areas (especially in the Lucky, Bohemian, East Big Rock, Classic and South Canadian zones). Deeper sulphide drilling across major NNW faults along the Reserve Trend (Lucky, Golden, Moosehead, North Slope and East Big Rock Zones) is also recommended in hopes of defining higher grade replacement deposits at depth within the calcareous Steel and Rabbitkettle formations.

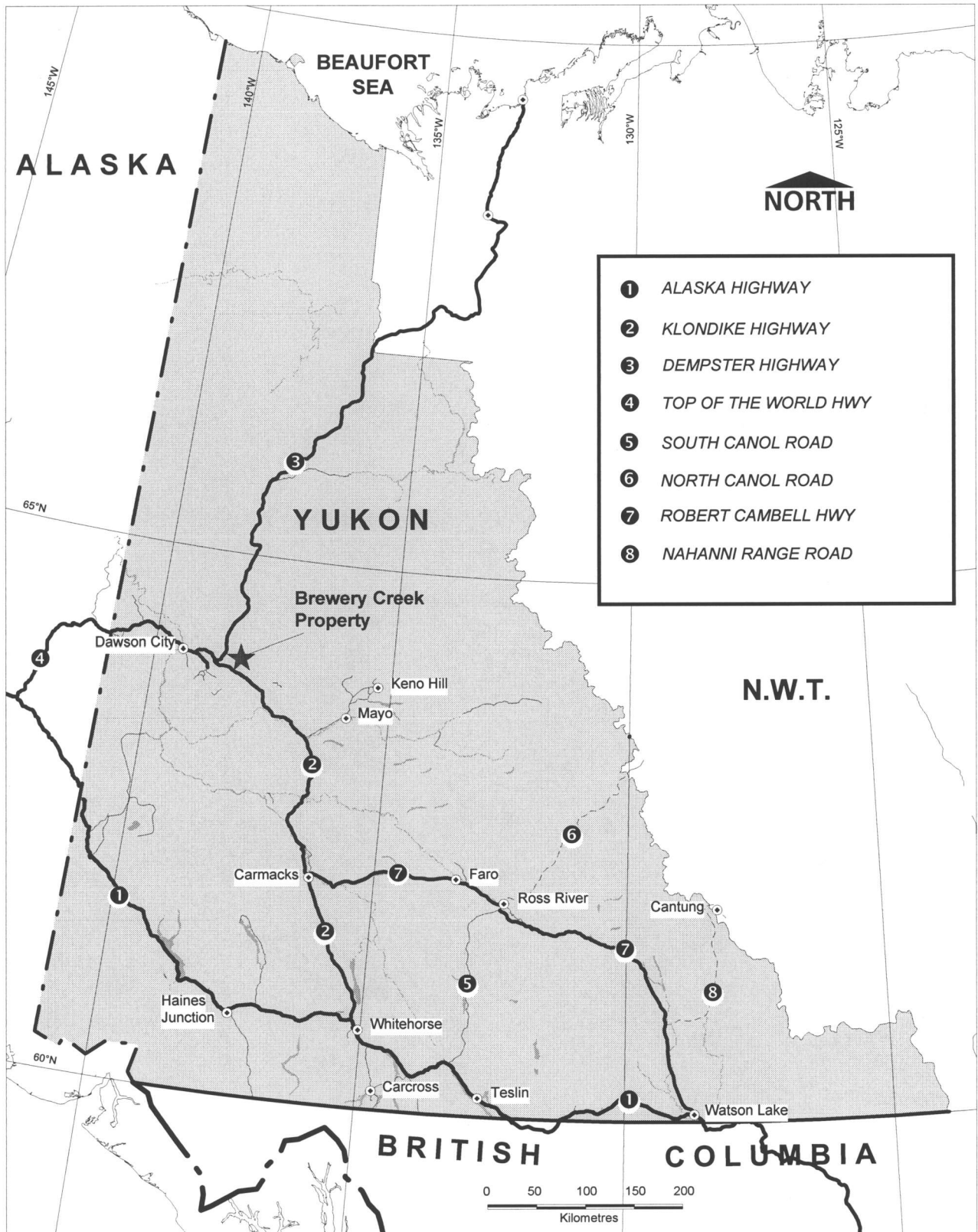
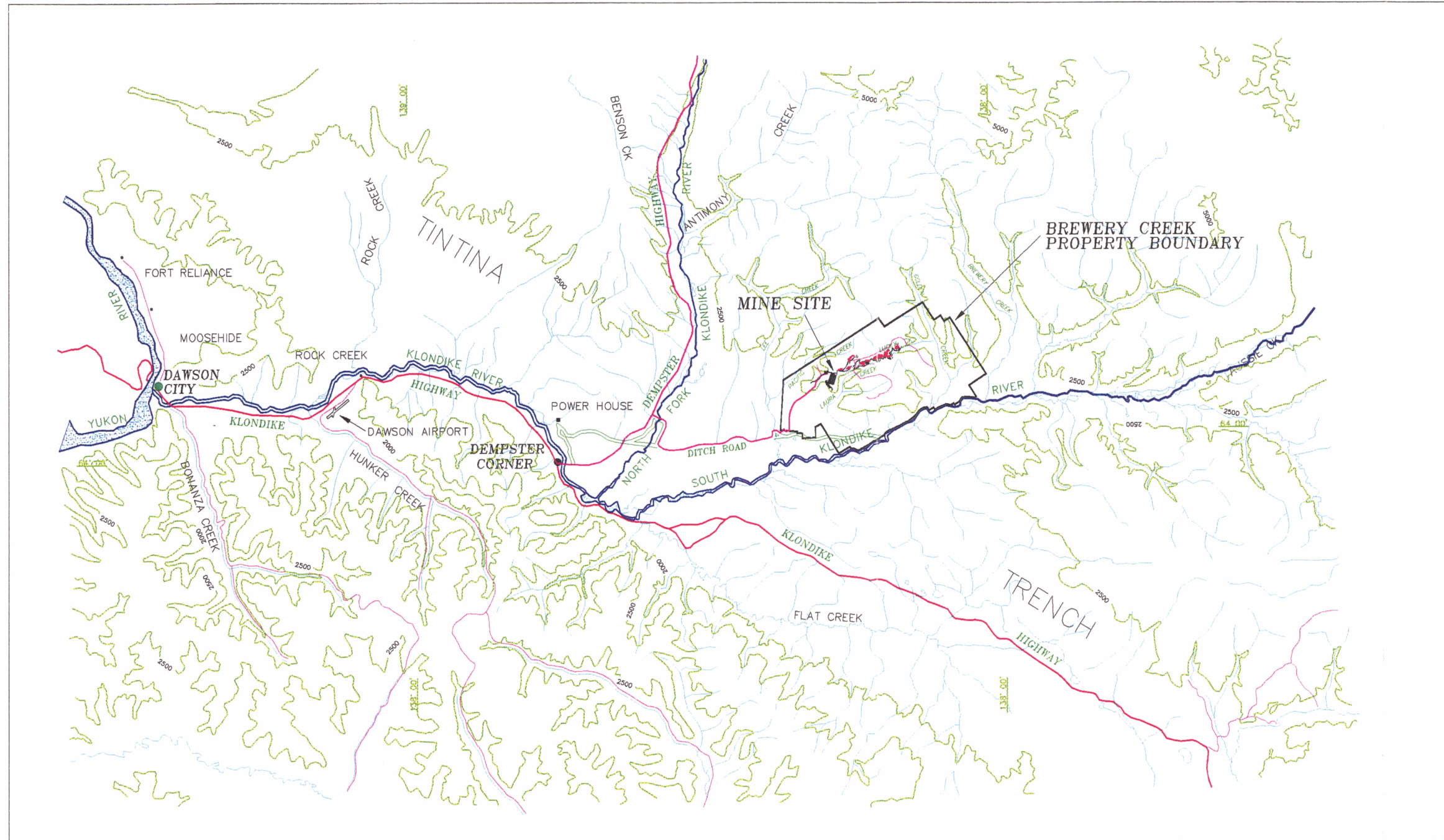





FIGURE 1: GENERAL LOCATION MAP



LEGEND

-  4 WHEEL DRIVE ROADS
-  ALL WEATHER ROADS
-  PAVED ROAD



CONTOUR INTERVAL: 500 FEET



VICEROY RESOURCE CORPORATION

**BREWERY CREEK PROJECT, YUKON
REGIONAL LOCATION MAP**

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DRAWN BY:	DWG SCALE: 1:400,000
DATA BY:	MAP INDEX NO.: 1-1-2-A
DATE: FEB/11/97	PLATE NO.: Figure 2

CHAPTER ONE: INTRODUCTION

1.1 Introductory Statement

The Brewery Creek Mine is a bulk tonnage heap leach gold operation located 57 kilometres due east of Dawson City, Yukon (See figure 1). The property, owned and operated by Viceroy Resource Corporation, is comprised of mine facilities, pit areas and surrounding exploration zones and spans across 803 contiguous quartz claims covering 12,795 hectares.

To date a geological resource of approximately 40 million tonnes averaging 1.00 gpt Au has been drill defined within 10 near surface deposits along a seven kilometre trend (referred in this report as the Reserve Trend). This global resource contains an oxidised portion amenable to heap leaching. Exploration in 1997 focused on testing oxide potential around existing deposits and on seven exploration targets along strike or outside of the Reserve Trend for a combined strike length of over 15 kilometres.

This report summarises the exploration work conducted outside of the currently defined pit areas between March 17 and November 2 of 1997. Although mine development infill drilling in the Kokanee, Golden, Lucky and Big Rock Zones took place on the mining lease during this period, no attempt is made to discuss the procedures and results of that work in this report. The structural geology, stratigraphic section and deposit setting have also been revised to better reflect the new styles of mineralization discovered and geological data compiled during the 1997 field program.

1.2 Location and Access

The project is located 57 kilometres due east of Dawson City, Yukon on NTS map sheet 116B-1 at latitude 64°02' N and longitude 138°15' W (See figure 2). Road access from Dawson City is 40 kilometres east on the paved Klondike Highway; 7 kilometres north on the all-weather gravel Dempster Highway; then eastward for 20 kilometres on the upgraded 2WD "Ditch Road" to the southwestern edge of the property, and finally another 6 kilometres to the mine site on a company road.

The Ditch Road was built in 1928 to service a water diversion project which supplied hydroelectric power to the dredges in the placer gold fields. This 20 kilometre stretch of road was upgraded to Yukon Territorial Government standards during the summer of 1996. There are two river crossings. The first, across the North Klondike River and the second, across Lee Creek have bridges with weight limits of > 50,000 kg.

The company road was built by Noranda Exploration Company Limited (Norex) in 1989 and since then has been steadily upgraded. In 1994 the road was realigned and constructed to meet required standards for a drive-to-mine facility from Dawson City.

Travel time from Dawson to the mine site is approximately 50 minutes.

1.3 Physiography & Vegetation

The property is located in the foothills of the Olgivie Mountains, with elevations ranging between 540 and 1225 metres above sea level. Despite low elevations, relief on the property is moderately steep, characterised by V-shaped valleys cutting a gently rolling upland rising from the Tintina Valley. The area escaped the latest glacial advances; thus oxidation of surface rocks is extensive, extending down to a depth of 50 metres. Natural outcrop is less than 1%, and is restricted to chert forming the steeper ridge tops on the property.

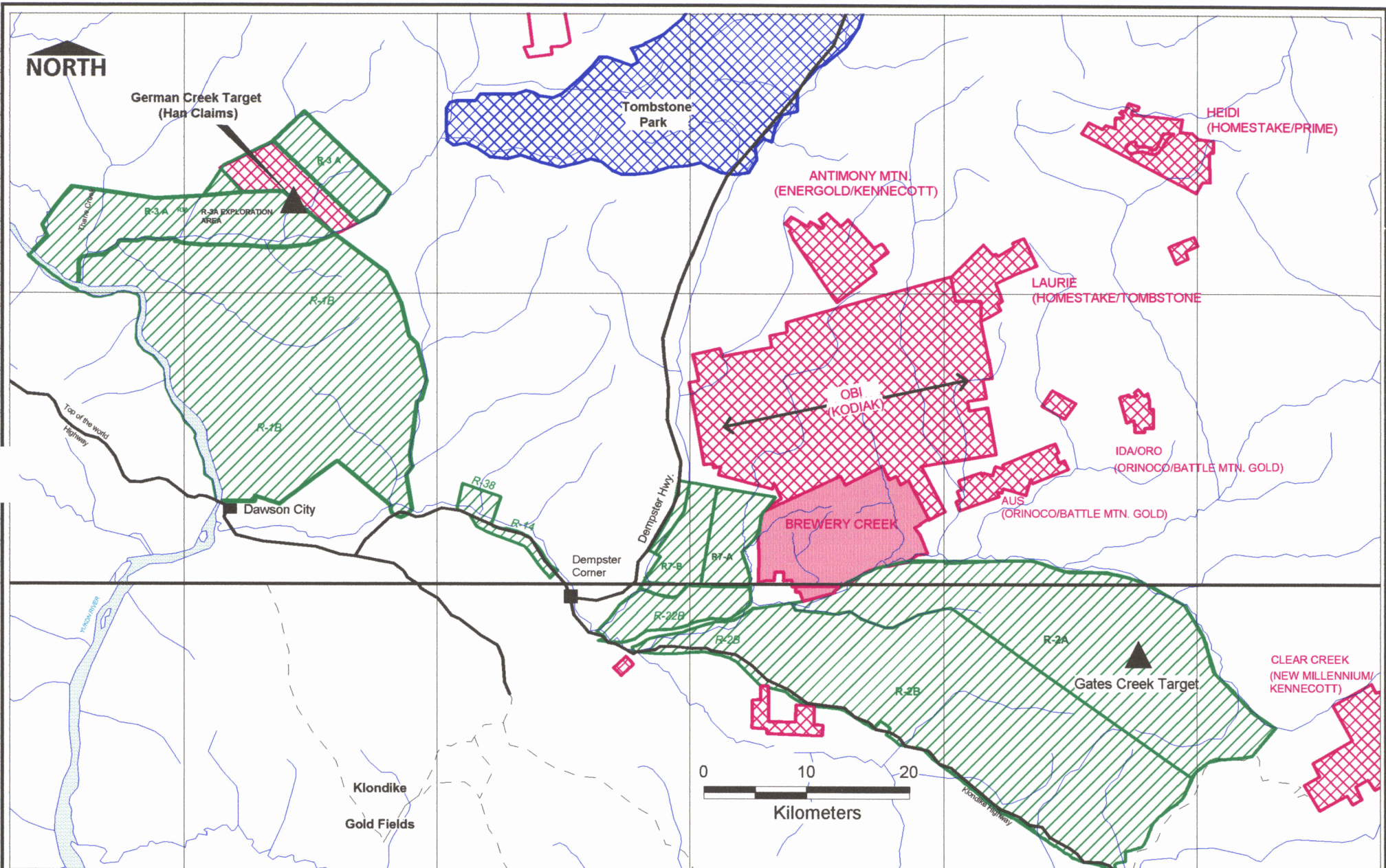
Vegetation on the property consists of four main types. The higher elevations (above 1050 metres) consist of rounded hills covered with sub-alpine shrubs, grasses and widely spaced coniferous trees. Steep north facing slopes and narrow valley floors are covered with thick blankets of moss with thickets of slope alder and stunted spruce. Steep south facing slopes have two distinct styles of vegetation; coniferous trees with abundant undergrowth and areas of deciduous aspen, poplar and birch with little or no undergrowth.




All north facing slopes and valley bottoms are influenced by permafrost. Areas of gentle topography, especially NW facing slopes, and gullies contain loess (fine wind blown silt) up to 17 metres thick.

1.4 Regional Exploration History and Competitor Activity

The following is a brief discussion of the regional exploration that has been conducted in the Brewery Creek area over the past 10 years. Figure 3 shows the location of current quartz claims with respect to the Brewery Creek Property.

There is no recorded history of hardrock exploration in the immediate vicinity of the property, although it is likely that drainages were tested for placer in the past. Laura Creek, which drains the central portion of the property, was staked for placer in 1988. These claims received little work and subsequently lapsed in June of 1992.



-  RED (Valid Quartz Claims)
-  GREEN (T'ron dek Hwech'in and Claims)
-  BLUE (Parks)

 VICEROY INTERNATIONAL EXPLORATION

REGIONAL LAND TENURE MAP

DRAWN: L. Jamrich	DATE: Feb 11, 1998	NTS: 116B
DATA BY: R. Diment	SCALE: 1:50,000	FIGURE 3

Twenty to thirty kilometres north and east of the property has been the focus of several exploration projects between 1987 and 1991. These programs targeted precious metal anomalies associated with Cretaceous intrusive bodies. Antimony Mountain, one of the larger intrusive centres in the area, was staked by Total Energold. Key adjacent properties were also optioned. In 1989 they completed a summer long program which included drill testing. Results did not warrant a program in 1990. In the fall of 1995 Kennecott Canada optioned the property and added peripheral claims. They continue to hold the property and plan to conduct exploration work in 1998.

Norex conducted extensive reconnaissance work in central Yukon in 1987, which led to the discovery of the Brewery Creek Deposit. Other claims staked by Norex include the Ida-Oro and Aus claims 10 to 30 kilometres east of the property. Work on these claims consisted of mapping, soil sampling, geophysics and trenching. Results from all these properties did not warrant drill testing and subsequently did not receive further work for three years. In 1995 Orinoco Minerals optioned the Aus and Ida-Oro claims from Battle Mountain Gold Company Ltd. (formerly Hemlo Gold Mines Ltd. - Norex) and conducted Kubota backhoe trenching in 1995. Follow-up diamond drilling was conducted in 1996. Results from these programs returned intersections as high as 20 gpt Au over narrow widths (less than a metre) within quartz-arsenopyrite veins. Orinoco did not conduct any work in 1997. Homestake Canada Ltd. optioned the Laurie Property, 30 kilometres northeast of Brewery Creek, from Tombstone Exploration Ltd. in the summer of 1997 and plan to carry out an exploration program in 1998.

In the fall of 1996, 520914 B.C. Ltd staked 900 contiguous quartz claims (OBI Claims) around the northern and eastern edges of the Brewery Creek claim block. The ground was staked on encouraging silt geochemistry, gossan and structural features. In 1997 520914 B.C. Ltd, now Kodiak Resources Ltd, conducted further silt soil and rock sampling and staked an additional 2400 claims. Kodiak plans to be listed on the Vancouver stock exchange by May 1998 and plan to carry out further follow-up work around anomalous targets.

1.5 Claim History

The initial claims were staked by Norex in 1987 to cover a reconnaissance geochemical anomaly. Further claims were staked in subsequent years to cover possible extensions of gold mineralization. The total number of claims staked to date is 803 which forms a contiguous block covering 12,795 hectares (See Figure 4). In June 1990 Loki Gold Corporation (Loki) entered into an option agreement with Norex and earned a 49% interest in the property by August 1991. In June, 1993, the remaining 51% interest was purchased, giving Loki sole ownership of the property. In 1994, the core claims covering the deposit areas, mine facilities and heap leach pad area were surveyed and taken to lease. Ownership of the claims was transferred from Loki to VLB Resource Corporation, a wholly owned subsidiary of Viceroy Resource Corporation after a merger in May 1996.

Four additional claims and two fractions were staked in 1997 near the South Klondike River to cover the LINZ claims which lapsed in May 1997.

Table 1 provides claim details and current assessment status.

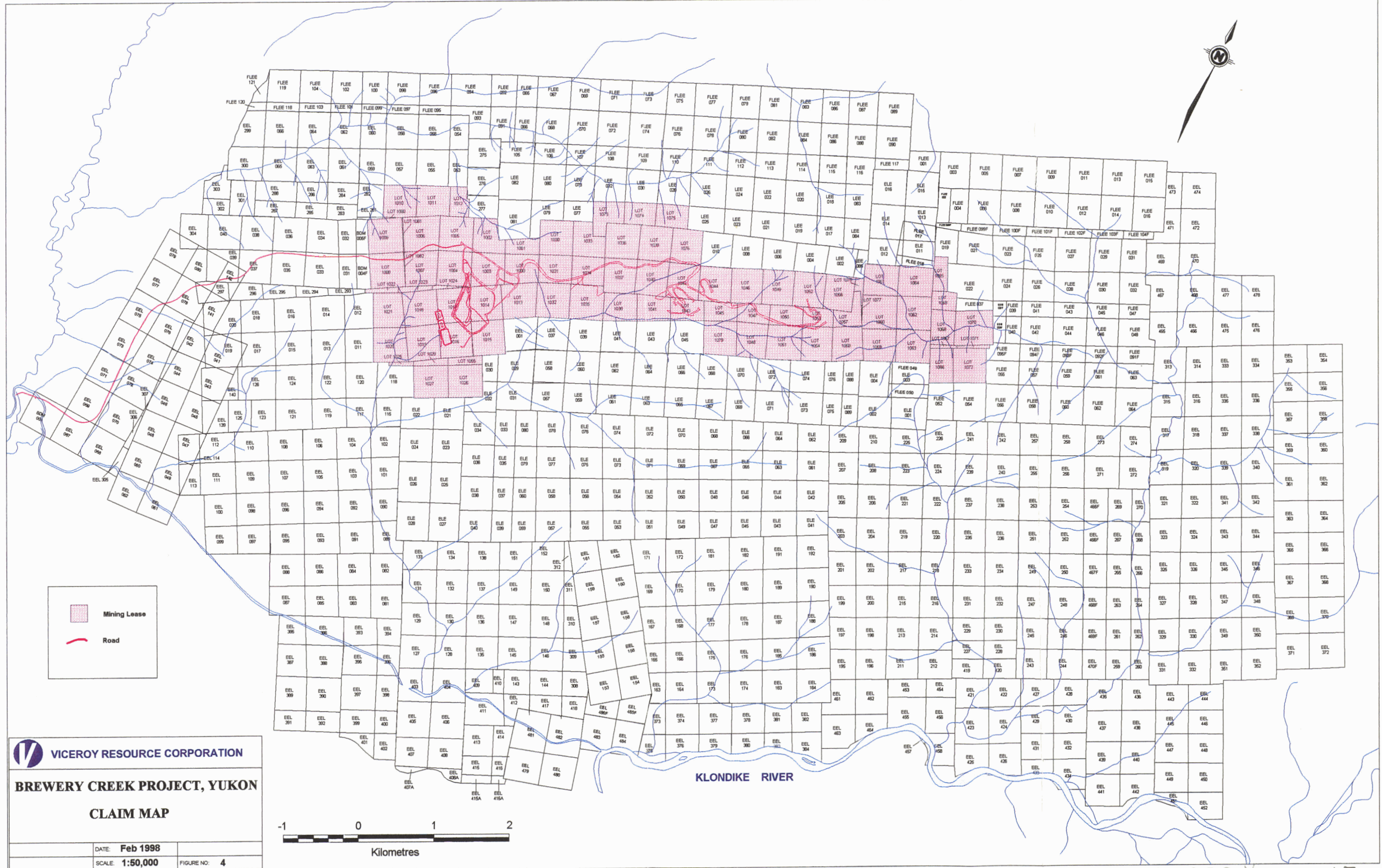
1.6 Work Program



The 1997 field program spanned from March 7 through November 2 and included soil sampling and mapping to better define anomalous trends south of the Reserve Trend and trenching and RC drilling to expand minable oxide reserves outside deposit areas. See Plate 1 for the locations of 1997 property work. Statistics for the various types of work are listed in Table 1 below. Collar co-ordinates and significant assay results for all drill holes and trenches can be found in Appendix I. Significant results from the 1997 program are discussed in Chapter IV.


Table 1
Status of claims after 1997 filing

<i>Claim Name</i>	<i>Fraction</i>	<i>Grant No.</i>	<i>No. of Units</i>	<i>new expiry date</i>
EEL 479-484		YC04543-48	6	January 20, 2004
EEL 485-486	F	YC04557-58	2	January 20, 2004
BDM 001		YB52721	1	January 20, 2005
BDM 004-005	F	YB52883-84	2	January 20, 2005
EEL 313-352		YB40326-65	40	January 20, 2005
EEL 353-372		YB40371-90	20	January 20, 2005
EEL 373-384		YB40393-404	12	January 20, 2005
EEL 419-458		YB40439-78	40	January 20, 2005
EEL 461-464		YB40479-82	4	January 20, 2005
BDM 007-008	F	YB88625-26	2	January 20, 2006
EEL 385-418		YB40405-38	34	January 20, 2007
EEL 407A-408A		YB40483-84	2	January 20, 2007
EEL 415A-416A		YB40485-86	2	January 20, 2007
EEL 465-470	F	YB45736-41	6	January 20, 2007
FLEE 091-95	F	YB40131-35	5	January 20, 2010
EEL 067-115		YB39516-64	49	January 20, 2013
EEL 117-192		YB39566-641	76	January 20, 2013
EEL 195-274		YB39642-721	80	January 20, 2013
EEL 465-478		YB40557-570	14	January 20, 2013
EEL 275-277		YB40246-48	3	January 20, 2014
EEL 281-288		YB40252-59	8	January 20, 2014
EEL 293-297		YB40264-68	5	January 20, 2014
EEL 299-300		YB40321-22	2	January 20, 2014
EEL 301-303		YB40283-85	3	January 20, 2014
EEL 304		YB40323	1	January 20, 2014
EEL 305-307		YB40286-88	3	January 20, 2014
EEL 308-312		YB40366-70	5	January 20, 2014
FLEE 098-104	F	YB40139-45	7	January 20, 2014
FLEE 105-117		YB40270-82	13	January 20, 2014
FLEE 118-121		YB40317-20	4	January 20, 2014
LEE 088-89		YB40324-25	2	January 20, 2014
EEL 001		YB23313	1	January 20, 2016
EEL 011-20		YB23323-32	10	January 20, 2016
EEL 031-52		YB23343-64	22	January 20, 2016
EEL 053-66		YB23907-20	14	January 20, 2016
ELE 001-04		YB23541-44	4	January 20, 2016
ELE 011-16		YB23551-56	6	January 20, 2016
ELE 021-80		YB23777-836	60	January 20, 2016
FLEE 001-19		YB23923-41	19	January 20, 2016
FLEE 021-32		YB23943-54	12	January 20, 2016
FLEE 037		YB23959	1	January 20, 2016
FLEE 039-50		YB23961-72	12	January 20, 2016
FLEE 052		YB23974	1	January 20, 2016
FLEE 054-78		YB23976-24000	25	January 20, 2016
FLEE 079-104		YB30004-29	26	January 20, 2016
LEE 077-82		YB23207-12	6	January 20, 2016
LEE 083-85		YB38729-31	3	January 20, 2016
LEE 002		YB04487	1	January 20, 2017
LEE 004		YB04489	1	January 20, 2017
LEE 006		YB04491	1	January 20, 2017
LEE 008		YB04493	1	January 20, 2017
LEE 010		YB04495	1	January 20, 2017
LEE 017-26		YB04502-11	10	January 20, 2017
LEE 028		YB04513	1	January 20, 2017
LEE 030		YB04515	1	January 20, 2017
LEE 032		YB04517	1	January 20, 2017
LEE 037		YB17704	1	January 20, 2018
LEE 039		YB17706	1	January 20, 2018
LEE 041		YB17708	1	January 20, 2018
LEE 043		YB17710	1	January 20, 2018
LEE 045		YB17712	1	January 20, 2018
LEE 057-76		YB17724-43	20	January 20, 2018

718



 Mining Lease
 Road

 **VICEROY RESOURCE CORPORATION**
BREWERY CREEK PROJECT, YUKON
CLAIM MAP

DATE: Feb 1998	FIGURE NO: 4
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Table 2 Summary Statistics of Work Completed in 1997

RC Drilling	142 holes for 10,253 metres	Midnight Sun Drilling, Whitehorse YT
Drill Pad Construction	142	Henry Gulch Placers, Dawson YT
Trenching	33 trenches for 2606 metres	Henry Gulch Placers, Dawson YT
Road Construction	20 km	Henry Gulch Placers, Dawson YT
Rock Samples	151	Viceroy International Exp., Inc
Soil sampling	145 line km 2457 samples	Viceroy International Exp., Inc

1.6.1 Sample Preparation and Assay Procedures

All trench and RC drill samples were prepared on site, consisting of drying, crushing to -1/4 inch and riffle splitting to obtain a 500 gram representative split. Coarse rejects are stored on site. Analyses for all samples included a 30 gram fire assay for gold with an atomic absorption finish. Soil samples were also analysed by ICP scan for an additional 32 elements including Ag, As, Sb and Hg. All drill hole and soil sample analysis was conducted by Chemex Labs from North Vancouver. Trench samples were analysed at the mine assay lab to facilitate quick turn around for generation of targets for RC drilling. A rigorous duplicate assay check was conducted on every RC hole at intervals ranging from 10-12 metres to 18-20 metres. Tables in Appendix XI list the results for individual assay checks.

Assay certificates and trench and drill logs are compiled in Volumes II and III respectively.

CHAPTER TWO: GEOLOGY

2.1 Regional Geology

The Brewery Creek property is located within the foothills of the Ogilvie Mountains along the northeastern boundary of the Tintina Trench (Figure 5). The Tintina Trench forms an erosional valley approximately 15 kilometres wide which delineates the Mesozoic to Tertiary-aged Tintina Fault, now obscured by extensive unconsolidated deposits infilling the Klondike River Valley.

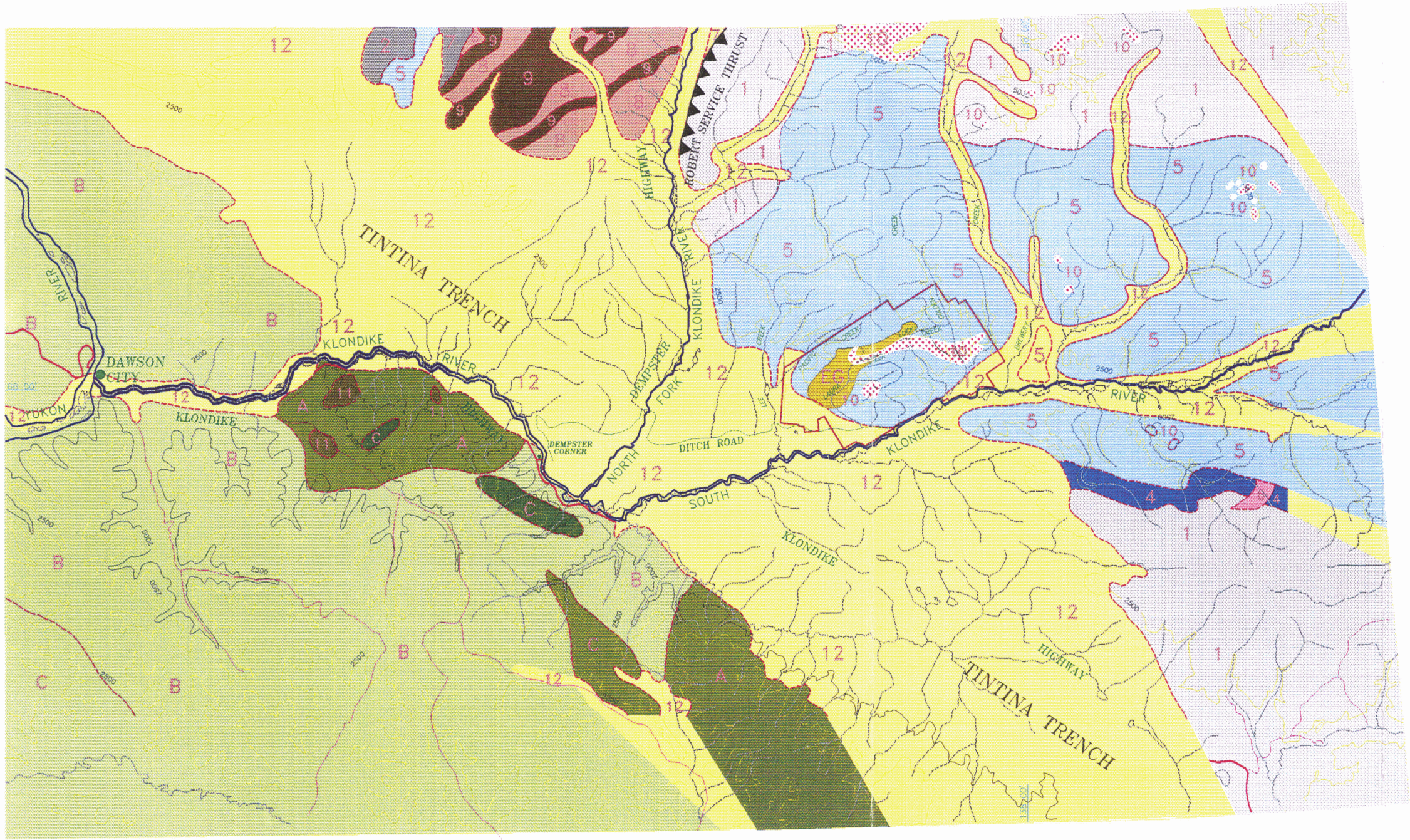
The Tintina Fault is a northwest trending regional scale transcurrent fault exhibiting dextral movement in the order of 450 kilometres. At the latitude of the Brewery Creek Property the fault juxtaposes late Proterozoic and Paleozoic marginal basinal deposits of ancient North America (Selwyn Basin Stratigraphy) to the northeast and predominantly accreted terranes of various tectonic elements of the Canadian Cordillera (largely Klondike schist and allied rocks of the Yukon Tanana Terrane) on the southwest.

Selwyn Basin rocks northeast of the Tintina Trench have been imbricated by the Jura-Cretaceous Dawson, Tombstone and Robert Service Thrusts (Tempelman-Kluit 1970). The Robert Service Thrust, extending from the Dempster Highway east-southeast through the Mayo map area, carries the bulk of Selwyn Basin rocks in its hanging wall, including those of the Brewery Creek property area. Hanging wall stratigraphy includes thick sequences (thousands of metres) of Lower Proterozoic Hyland Group, Cambrian Ordovician Road River and Devonian-Mississippian Earn Group sediments.

Hyland, Road River and Earn Group rocks are cut by Cretaceous intrusives forming a northwest-trending linear belt of widely spaced intermediate to siliceous stocks and plutons (locally referred to as the Tombstone Suite) which closely parallels the lateral extension of the Tintina Trench. This Plutonic suite extends southeasterly for over 350 kilometres from Dawson to the Yukon-NWT border. Precious metal occurrences are commonly associated with these intrusives, either proximal to or within them, and considerable exploration effort has been directed at these rocks during the past 15 years.

2.2 Property Geology

Supracrustal rocks within the property boundaries are composed of Rabittkettle Formation (Cambrian-Ordovician) calcareous phyllite overlain by Road River Group (Ordovician-Silurian) volcanics and off shelf sediments and siliclastic rocks of the lower Earn Group (Devonian). The contact between the Road River and Earn Groups has been the locus of WNW-trending, northeast-directed thrust faulting which has juxtaposed thin sequences of Silurian siltstone (<150 metres thick) against Devonian siliclastics. Age of thrusting is believed to be early Cretaceous, related to the earliest movement on the Tombstone Thrust 100 kilometres to the northeast.

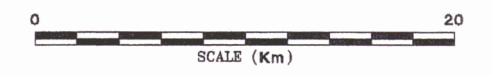


GEOLOGY LEGEND

- QUATERNARY**
 - 12 Unconsolidated glacial and alluvial deposits
- TERTIARY**
 - Dark grey and brown andesite and basalt
- CRETACEOUS**
 - Porphyritic hornblende/biotite syenite, diorite and quartz monzonite
 - Diorite and gabbro
 - Keno Hill Quartzite : massive grey and blue grey
- JURASSIC**
 - Lower schist, dark grey argillite, slate, phyllite and quartzite
 - Granite, granodiorite, quartz monzonite
- DEVONIAN-MISSISSIPPIAN (EARN GROUP)**
 - EARN GROUP : LOWER MEMBER : Argillite, shale and minor chert interbedded with bedded barite and andesite flows and tuffs; interbedded turbidite facies - shale, sandstone, graywacke and chert pebble conglomerate.
- ORDOVICIAN TO SILURIAN**
 - Road River Formation : Interbedded black chert, argillite and chert pebble conglomerate
 - Grey limestone and dolomite
- CAMBRIAN**
 - Grey to brown limestone
- PRECAMBRIAN**
 - Dark brown to green volcanic rocks
 - Buff brown gritty quartzite, sandstone quartz pebble conglomerate. Minor phyllites, slates, chert and limestone
- METAMORPHIC ROCKS SOUTHWEST OF TINTINA TRENCH**
 - Reddish brown weathering, dark green serpentinized ultrabasic rocks
 - Klondike Schist : green quartz muscovite - chlorite schist
 - Nashua Series : grey micaceous quartzite, quartz-mica schist and biotite gneiss

SYMBOL LEGEND

- GEOLOGICAL BOUNDARY
- PROPERTY BOUNDARY



VICEROY RESOURCE CORPORATION

**BREWERY CREEK PROJECT, YUKON
REGIONAL GEOLOGY**

093820 1/3 P9.18

DRAWN BY:	DWG SCALE:
DATE BY:	MAP INDEX NO.: REG-GEOL-A
DATE: FEB/20/1998	PLATE NO.: Figure 5

Throughout much of the property, Cretaceous quartz monzonite has intruded Earn and Road River stratigraphy as a series of semi-conformable sills. Cretaceous biotite monzonite and syenite stock-like bodies also occur locally in the south central part of the property.

A 1:15,000 scale property geology map (Plate 1) and a detailed description of the various formations (Table 4) are provided. Additional details are discussed below.

2.2.1 Stratigraphy

2.2.1.1 Rabbitkettle Formation

The oldest rocks on the property consist of a single thin sequence (<50 metres thick) of light grey calcareous phyllite in fault contact with Earn Group shale east of the Moosehead Zone. The phyllite is conformably overlain by thin sequences of Road River Group volcanics, chert and siltstone and forms a unique structural block dipping steeply to the northeast. The phyllite correlates with the Rabbitkettle Formation, an Upper Cambrian phyllitic/shaley carbonate unit mapped in the Sprague Creek map area 50 kilometres to the southeast (Murphy, Heon 1993).

2.2.1.2 Road River Group

The stratigraphic section on the property is dominated by Road River Group rocks, consisting of tan-weathering, wispy-laminated, 'burrowed' siltstone overlying massive black chert and calcareous andesitic flows and tuffs. The siltstone and chert units correlate with the Silurian Steel Formation and Ordovician Duo Lake Formations respectively as defined by Gordey and Anderson in the Nahanni map area (105-I). The volcanics correlate with intermediate flows mapped by Green (1972) in the Larsen and Nash Creek map areas as a facies equivalent of the Road River Formation. However, recent mapping by Gordey and Anderson in the Nahanni mapsheet correlate similar lithic tuffs with the Upper Cambrian Rabbitkettle Formation.

The Steel Formation occurs sporadically throughout the Selwyn Basin and is an important stratigraphic marker forming the top of the Road River Group. Within the property boundaries the top part of the formation contains interbeds of graphitic shale, chert, bedded barite and limestone and can be mistaken with the overlying graphitic argillite of the Lower Earn Group. Fossils from this upper member of the Steel Formation contain Silurian to Early Devonian conodonts (Norford and Poulton, 1995; GSC Loc. No: C-211108, C-211110 and C-211111). Mapping by Gordey and Anderson (Nahanni map area 105-I, 1993) has defined the contact as the highest occurrence of wispy-laminated siltstone, which is the same parameter employed at Brewery Creek. Throughout much of the central part of the property, however, siltstone overlies Earn Group

Age	Group	Formation	Geology Map Designation	Rock Code	Description
Cretaceous (91 Ma)	Tombstone Plutonic Suite	Quartz Monzonite	K _{qm}	QM	QUARTZ MONZONITE High level sills of quartz monzonite with K-feldspar megacrysts up to 2 cm across and round quartz eyes, in a light grey aphanitic to fine grained intrusive rock containing biotite and hornblende. Host shale is friable and unmetamorphosed at contacts indicating emplacement above the zone of supercritical fluid (1.5 km approx.). Igneous contacts are sharp and delicately embayed; some contacts are slickensided and marked by zones of hydrothermal clay 0.5-15 cm wide which appear to be altered fault gouge. A clast from a subvolcanic intrusive breccia in the Fosters Zone with clasts of quartz-eye rhyolite in volcanic glass gave a similar whole rock age, as did loose biotite flakes separated from white clay in the Golden Zone clay trench.
Cretaceous (91 Ma)	Tombstone Plutonic Suite	Biotite Monzonite	K _{bm}	BM	BIOTITE MONZONITE Dykes and sills of fine grained monzonite with about 50% dark minerals, mostly biotite. Varies considerably in colour from light to dark as a result of variations in mafic content. Some hornblende in places but biotite predominates. Strongly foliated at base due to alignment of biotite flakes. Dykes of this phase have been observed cutting the syenite. This unit has only been described from the panel south of Laura Creek. At the highest point in the Schooner Zone, fine grained tuffs have been hornfelsed above a sill of this unit to form a hard, white banded rock which resembles chert.
Cretaceous (91 Ma)	Tombstone Plutonic Suite	Syenite	K _{sy}	SY	SYENITE Large intrusion of medium to coarse grained syenite with trachytic texture (strongly aligned feldspar and hornblende crystals up to 2 cm, pegmatitic). Forms a major intrusion cutting tuffaceous sequence south and west of the Classic Zone, not seen elsewhere. In this area, limestone in contact with the syenite has formed a small amount of tremolite-epidote-diopside-garnet-skarn. Dykes of the pegmatitic phase cut Devonian tuff discordantly on a ridge south of the Classiz Zone road.
Early-Mid Devonian	Earn Group	Portrait Lake Formation Upper Member	D _{Ptss}	TSS	TUFFACEOUS SANDSTONE Medium to light grey fine grained quartz sandstone with abundant tuffaceous material (sericitic). Sericitic material may be due to a primary volcanic component or weak hornfelsing from nearby biotite monzonite and syenite intrusives.
Early-Mid Devonian	Earn Group	Portrait Lake Formation Upper Member	D _{Pts}	TSH	TUFFACEOUS SHALE Dark grey to black, soft tuffaceous shale. Small (5 mm) sharp-crested asymmetric current ripples on some bedding surfaces. Looks like a distal turbidite sequence. Grades upward into tuffaceous sandstone described above.

Early Devonian	Earn Group	Portrait Lake Formation Middle Clastic Member	D _{Pcg}	CPC	CONGLOMERATE Massive debris flow conglomerate, containing multi-coloured pebbles of Duo Lake Formation chert and occasional clasts of Hyland Group micaceous quartzite in a siliceous matrix. Clasts range up to about 4 cm in size and from rounded to angular. In this area the conglomerate seems to be emplaced within Steel Formation siltstone described below suggesting that the regional unconformity between the Earn and Road River Group was confined to local, confined rift zones (channels) at Brewery Creek.
Early Devonian	Earn Group	Portrait Lake Formation Middle Clastic Member	D _{Pg}	GW	GREYWACKE Dark grey matrix supported greywacke. 1.0 mm-0.5 cm sub-angular clasts of chert, shale and argillite within a poorly sorted sandstone. Grades locally into chert pebble conglomerate.
Early Devonian	Earn Group	Portrait Lake Formation Middle Clastic Member	D _{Pss}	SS	SANDSTONE Dark grey massive well sorted siliceous sandstone. Minor crude bedding planes. Grades downward into shale described below.
Early Devonian	Earn Group	Portrait Lake Formation Middle Clastic Member	D _{Ps}	SLT,SH	SHALE, SILTSTONE Fissile, grey to brown-weathering, non-calcareous fine grained shale; pin- striped and slightly burrowed silty shale. Interbedded with greywacke and sandstone lenses described above.
Early Devonian	Earn Group	Portrait Lake Formation Lower Member	D _{pa}	ARG	ARGILLITE Black baritic shale and graphitic argillite.
Early - Devonian	Earn Group	Portrait Lake Formation Lower Member	D _{Pb}	BAR	BARITE Light grey laminated barite and minor interbedded felsic tuff. South of the Classic Zone road, laminated barite is associated with dark grey baritic limestone. Commonly interbedded with graphitic argillite and limestone described below. In the Nahanni Map Area conodont data from barite returned Mid to Late Devonian ages (Anderson, Gordey 1993). However at Brewery Creek baritic argillite overlying Silurian Siltstone suggests that barite deposition may have occurred as early as Late Silurian.
Early Devonian	Earn Group	Portrait Lake Formation Lower Member	D _{P1}	LST	LIMESTONE Fetid black micritic limestone, weathers grey. Extensively veined and recrystallized in places, no recognizable textures. Also, thin bedded brown to grey weathering silty limestone, calcareous siltstone and dark grey chert.

Early Devonian	Earn Group	Portrait Lake Formation Lower Member	D _{pa}	ARG ARGG	GRAPHITIC ARGILLITE Black siliceous argillite, chert and graphitic shale. Characteristically fractured, brecciated and quartz veined in places. In drill core, interbedded with yellow-weathering siltstone at top of Steel Formation. According to Gordey, the base of the Earn Group is defined as the top of the highest wispy-laminated siltstone layer.
Silurian	Road River Group	Steel Formation	S _s	SST	SILTSTONE Yellow-weathering burrowed calcareous siltstone with wispy laminations; calcareous silty shale. Contains a distinctive bed of yellow-weathering, hard blue-grey siliceous dolomite. Interbeds of black graphitic argillite, chert and minor bedded barite form a distinctive upper member near the top of the formation. According to Gordey, the upper boundary of the Steel Formation is placed at the top of the last siltstone layer. The presence of barite suggests that the Steel Formation may span a wider time interval (Silurian to Early Devonian) than its type area. Limestone and calc-arenite beds (turbidites) are common near the bottom of the formation. In the valley northeast of the Classic Zone, a limestone bed immediately overlies an andesite-pebble conglomerate at the top of a thick sequence of Menzie Creek volcanics, suggesting a possible unconformity. Age dating of this limestone is needed to confirm this assumption.
Ordovician-Silurian	Road River Group	Duo Lake Formation	OS _D	CH	CHERT Black chert and argillite; chert is massive or thick bedded and lacks banding; no limy or tuffaceous layers. Although it generally underlies the Steel Fm siltstone, identical chert commonly forms beds several metres thick within the Steel Fm.
Cambro-Ordovician	Road River Group or Rabbitkettle Formation	Menzie Creek Volcanics ?	CO _M	MTUFF	MAFIC TUFFS, FLOWS AND BRECCIA Dark calcareous amygdaloidal flows, tuffs and volcanic breccia; probably andesitic; highly altered with calcite and zeolite-filled amygdules; thin limestone interbeds. An andesite pebble conglomerate occurs at the top of a thick wedge of this unit northeast of the Classic Zone. Well rounded andesite clasts up to 8 cm across occur in a dark matrix of highly calcareous fine grained tuff. This unit is overlain by Steel Formation siltstone in the southern map area suggesting a major unconformity during Ordovician Time.
Cambro-Ordovician	Rabbitkettle Formation		CO _M	PHY	CALCAREOUS PHYLLITE Light to medium grey calcareous phyllite. Well developed foliation parallel to bedding. Interbedded cm scale silicious and calcareous layers. Unit is restricted to one locality 300 metres grid west of the Moosehead Zone where it is found in fault contact with Devonian Earn Group shale.

graphitic argillite, shale and sandstone. Intensely sheared interbeds of cherty argillite, mentioned above, are believed to be the locus of thrust faulting which has juxtaposed thin sequences of Steel Formation (<150m) on top of Lower Earn Group rocks. Throughout the Selwyn Basin the contact between the Road River and Earn Group is marked by a regional unconformity (Murphy, Heon 1994); however, interbedding of Road River siltstone and Earn Group graphitic argillite and bedded barite at Brewery Creek may represent continuous deposition from late Silurian through to early Devonian.

2.2.1.3 Earn Group

In the central part of the Brewery Creek Property area, the stratigraphic section is dominated by siliclastic rocks of the Devonian Earn Group. Gordey and Anderson, in Nahanni Map Area 105-I, divide the Earn Group into a lower fine grained locally clastic and baritic member and an upper coarser clastic member known as the Portrait Lake and Prevost Formations, respectively. At Brewery Creek, the Earn Group section appears to be confined to the lower Portrait Lake Formation consisting of local sandstone, greywacke and chert pebble conglomerate interbeds within baritic argillite, graphitic shale and silty shale.

At Brewery Creek, the lower member of the Portrait Lake Formation consists of an interbedded sequence of black graphitic argillite and minor chert (up to 250 metres thick) which extends east-west through the entire central part of the property. Locally, bedded barite (≤ 20 metres thick) and thin (<4m) black limestones are found interbedded within this unit north of the Kokanee Zone (20,800 E / 20,200N). The age and stratigraphic position of the argillite is based solely on its baritic composition which closely resembles similar Early to Late Devonian baritic strata mapped in the Nahanni Map Area (Gordey and Anderson, 1993).

Overlying the argillite is locally tuffaceous fissile shale interbedded with minor sandstone, greywacke and chert pebble conglomerate. This coarser clastic assemblage (up to 100 metres thick) appears to grade up-section into soft sericitic shale and sandstone which caps the higher ridge tops in the western map area. It remains unclear whether this soft, sericitic texture is due to a primary tuffaceous component or weak hornfelsing caused by nearby intrusives bodies. In the central map area, chert pebble conglomerate is incised within Steel Formation Siltstone suggesting that rifting and uplift during Devonian time produced local unconformities (channels) through the underlying Road River Group. The general eastward thinning and coarsening of Earn Group sediments along Laura Creek may also define a northwesterly striking Early Devonian rift zone, filled by clastic material sourced from the southeast.

2.2.2 Intrusive Rocks

The stratigraphic sequence has been intruded by Cretaceous quartz monzonite porphyry, biotite monzonite and syenite. Dating of zircon by the G.S.C. yielded an age of 91.4 MY. $\pm .2$ for the quartz monzonite. This is

approximately the same age as similar intrusive complexes found to the north at Antimony Mountain and elsewhere within the Tombstone Range.

The quartz monzonite has intruded Upper Road River and Lower Earn Group stratigraphy as semi-conformable sills along a strike length of at least 12 kilometres. Sill emplacement is closely associated with well developed, gently-dipping shear fabrics within graphitic argillite, suggesting that the quartz monzonite has invaded early Cretaceous thrust faults. Hornfelsing is limited in the surrounding sediments supporting the hypothesis of a high-level, low-temperature, dry intrusive event. Quartz monzonite-shale contacts strike northwesterly (090° to 120°) and dip gently (005° to 30°) to the southwest. Sill thicknesses range from five to ten metres in the western map area to greater than 100 metres in the east. The quartz monzonite is associated with all of the ore zones scheduled for mining to date.

In the south-central map area, syenite and biotite monzonite stocks intrude surrounding Road River and Earn Group sediments. Biotite monzonite sills also occur in the southcentral and southeastern map areas. The syenite and biotite monzonite are relatively coarse-grained and equigranular with well developed hornfelsing around sedimentary contacts. Despite textural and compositional differences these intrusives are believed to be closely related in age to the quartz monzonite (Green 1972).

2.2.3 Structural Geology

The stratigraphic sequence described above generally strikes WNW and dips gently NE (010° to 20°). However, within the Reserve Trend dips are primarily southwesterly with associated broad south vergent folding found in Road River and Earn Group shales and siltstones. Limb dips range from 10 to 60° . Fold axes trend ENE and WNW (80 to 110°) and plunge gently (010°) to the west. Although this style of deformation is consistent with the Sprague Creek map area (115P/15) 50 kilometres to the southeast where similar south vergent folding has been mapped in similar stratigraphy (Murphy and Heon, 1994), the discontinuity between the Reserve Trend and less deformed stratigraphy outboard suggest that fold deformation and cleavage development may be the result of drag along normal faults forming a district scale structural domain.

Several episodes of faulting have cut the entirety of the stratigraphic pile and include: early Cretaceous northeast directed thrusts and NNE shears, late Cretaceous WNW and NNE shears, and younger NNW and NE high angle brittle faults. These structures are described below in detail as they are intimately and spatially related to ore deposition.

2.2.3.1 Listric Normal Faults - Reactivated Thrust Faults

WNW trending, northeast directed thrusts traverse the majority of the property area juxtaposing Silurian Steel Formation against Early Devonian Portrait Lake sediments. Argillite, common to both the Upper Road River

and Lower Earn Group, is highly tectonized, incompetent, graphitic and most likely represents the decollement surface where thrust faulting has been accommodated. However, slickensides along these graphitic surfaces show consistent strike and dip-slip movement and thus may represent later listric normal movement along pre-existing thrust surfaces. This later extensional event is primarily responsible for the quartz monzonite sill emplacement within the graphitic argillite.

Trench exposures and cross-sectional interpretations consistently display shallowly south-dipping sheared contacts between interlayered units of pervasively altered quartz monzonite and strongly tectonized graphitic argillite. These listric structures are not delineated on Plate 1 but traverse the entire property, 12 kilometres in total, varying in strike from 080° to 120°. Dips to the southwest range from 060° near surface to less than 010° at depth.

Trench exposures commonly display these listric normal faults as stacked "rift-like" curvilinear surfaces which progressively flatten south-dipping strata by rotation of the hanging wall block. Gently north-dipping argillites occur in the Canadian Zone and may be the result of this rotation. Cross-sectional interpretations show these imbricate faults merging tangentially or at small intersection angles.

2.2.3.2 NNE Faults

Prominent NNE vertical structures (020° to 040°), characterized by tightly spaced en echelon fractures are common within hanging wall sediments of thrust sheets. Fracture intensity increases down section toward the thrust surface. These structures have also been invaded by quartz monzonite (e.g. Moosehead Zone), similar to the intrusion of the thrust faults and are believed to be the same age (early Cretaceous). These structures are primarily orthogonal to the trend of thrust faulting and may represent transverse sinistral tear faults.

2.2.3.3 ESE & NNE Shears

The most dominant structural fabric on the property consists of ESE (100°) and NNE (040°) shears. This fabric is primarily sub-vertical; however, moderate SW and NE dips are also associated with WNW structures. The age of deformation is constrained to 91 Ma or younger as this fabric crosscuts the quartz monzonite sills. Slickensides show both sinistral and minor normal movements on WNW faults and dextral movement on NNE faults. Relative offsets within the stratigraphic pile are generally less than 3 metres. The relative orientation and movement of these structures suggests that they may represent a conjugate set with maximum compressive stress and extension oriented ENE (070°) and SSE (160°) respectively. Furthermore, trench exposures within the Pacific Zone show minor north dipping en echelon structures truncated against a more dominant south dipping fault. This geometry suggests graben style extension with minor antithetic structures falling against a dominant master fault. This shear/extension system appears to be confined to the hanging wall of listric normal faults (pre-existing thrust faults). Fault gouge up to 30cm wide with strong strike and dip-slip slickensides along graphitic argillite-quartz monzonite contacts suggest that these thrust surfaces may

have been reactivated forming deep seated master graben faults. Further movement along early Cretaceous NNE structures is also suggested.

2.2.3.4 NNW & NE Brittle Faults

The latest stage of deformation on the property consists of NNW and NE trending unhealed faults. Little work has been done on these structures and therefore they remain primarily interpretative. Limited drilling along these structures in the Kokanee Zones suggests left lateral strike-slip movement for the NE faults. Offset of the bedded barite horizons is suggestive of up to 200 metres of displacement. NNW faults are interpreted as sub vertical structures which offset stratigraphy by hundreds of metres evidenced by Cambrian phyllite in fault contact with Devonian Earn Group siliclastics east of the Moosehead Zone. NNW faults also show normal movement in the order of tens of metres in the Lucky and East Big Rock Zones. Both NNW and NE faults truncate sulphide mineralization and all previously described structures.

CHAPTER THREE: MINERALIZATION

3.1 Introduction

Moderate to high level epithermal gold mineralization at Brewery Creek is structurally controlled, primarily confined to hanging wall siliclastic strata, intrusive rocks and calcareous sediments of listric normal faults (reactivated thrust faults). Eighty-five percent of the known reserves are hosted by Cretaceous quartz monzonite sills while the remainder is contained within brittlely deformed coarse clastic sediments of the Devonian Earn Group. Furthermore, newly discovered mineralization within Silurian calcareous siltstone and sheeted quartz veinlet systems within larger Cretaceous monzonite and syenite stocks increases the potential for defining economic "Carlin" and "Fort Knox" type deposits.

Typically, the reserve deposits delineated to date average 1 to 2 gpt Au with individual assays varying from trace to greater than 30 gpt Au. Although host rock lithologies vary considerably, tectonized graphitic argillite consistently forms the footwall to all known deposits. Late Cretaceous dip and strike-slip reactivation along graphitic thrust surfaces suggest they also acted as deep-seated conduits which tapped gold bearing hydrothermal solutions.

To date, a geologic resource of approximately 40 million tonnes grading 1.0 gpt Au has been defined in 13 near-surface, gently-dipping deposits. From west to east the main deposits, collectively referred to as the Reserve Trend, have been named the West Big Rock, East Big Rock, Pacific, Blue, Moosehead, Canadian, Fosters, Kokanee, Golden and Lucky Zones. Geological resources for Reserve Trend deposits and the 1997 outboard additions in the SE Lucky, Bohemian, North Slope and Classic Zones are summarised in Table 6 respectively. The Schooner, Sleemans, South Canadian and West Grid Zones have received limited drilling and no resource estimates have been attributed to them as yet.

A discussion of the sulphide mineralization in conjunction with alteration, structural controls, geochemistry, occurrence of gold, preg-robbing characteristics of graphitic argillite and geological model follow. A summary of significant results from the 1997 exploration program is also included encompassing new geological and structural observations in terms of their potential to increase the geological resource base.

3.2 Alteration and Mineralization

Gold mineralization is hosted within porphyritic quartz monzonite, biotite monzonite, interbedded sandstones and silty shales, and calcareous siltstone. Although a wide variety of lithologies exist, mineralization and

Table 6

Summary of 1997 Geological Resource Additions

Zone	Cut-off Grade (g/T)		All Material			Oxide**			Transition**			Sulphide**		
			Tonnage (T)	Grade (g/T)	Au Ounces*	Tonnage (T)	Grade (g/T)	Au Ounces*	Tonnage (T)	Grade (g/T)	Au Ounces*	Tonnage (T)	Grade (g/T)	Au Ounces*
SE Lucky	0.5	Global	1,715,887	2.63	145,028	735,357	2.38	51,098				980,530	2.82	88,870
		Measured	725,529	2.60	60,721	409,636	2.46	30,827				315,893	2.79	28,370
		Indicated	612,846	2.66	52,462	262,945	2.51	16,520				349,902	2.77	31,213
		Inferred	377,512	2.63	31,845	62,777	1.27	3,751				314,735	2.89	29,287
		Meas+Ind	1,338,375	2.63	113,183	672,580	2.48	47,347				665,795	2.78	59,583
Bohemian	0.5	Global	364,044	0.99	11,613	364,044	0.99	11,613						
		Measured	180,886	0.98	5,713	180,886	0.98	5,713						
		Indicated	72,896	1.02	2,384	72,896	1.02	2,384						
		Inferred	110,262	0.99	3,516	110,262	0.99	3,516						
		Meas+Ind	253,782	0.99	8,097	253,782	0.99	8,097						
Classic	0.25	Global	10,883,255	0.52	182,750	10,883,255	0.52	182,750						
		Measured	2,726,567	0.55	48,536	2,726,567	0.55	48,536						
		Indicated	1,791,453	0.80	34,813	1,791,453	0.80	34,813						
		Inferred	6,365,236	0.49	99,402	6,365,236	0.49	99,402						
		Meas+Ind	4,518,020	0.57	83,348	4,518,020	0.57	83,348						
North Slope	0.5	Global	2,228,088	2.01	143,814	378,721	2.85	34,742	473,243	1.91	29,070	1,376,124	1.81	80,002
		Measured	368,552	2.23	26,536	99,939	3.24	10,414	57,616	1.39	2,575	211,998	1.91	13,547
		Indicated	829,219	2.07	65,291	156,143	3.09	15,508	167,320	1.95	10,477	505,758	1.80	29,308
		Inferred	1,029,318	1.87	61,986	122,639	2.24	8,822	248,307	2.01	18,017	858,371	1.75	37,147
		Meas+Ind	1,198,772	2.12	61,828	258,082	3.15	25,921	224,936	1.80	13,052	717,754	1.86	42,855
All Zones		Global	15,191,274	0.99	483,205	12,361,377	0.72	280,203	473,243	1.91	29,070	2,356,654	2.23	168,872
		Measured	4,001,534	1.10	141,506	3,417,028	0.88	95,490	57,616	1.39	2,575	527,891	2.44	41,917
		Indicated	3,306,414	1.47	154,950	2,283,437	1.16	69,224	167,320	1.95	10,477	855,660	2.20	60,521
		Inferred	7,882,328	0.78	196,749	6,660,914	0.53	115,491	248,307	2.01	18,017	1,173,106	2.06	66,434
		Meas+Ind	7,308,949	1.22	266,456	5,702,464	0.93	164,713	224,936	1.80	13,052	1,383,549	2.30	102,438

* 1 oz (troy) = 31.1035 g

**Note: Oxide, transition and sulphide classifications are based *solely* on geology.

alteration are restricted to those units which have created open space through structural deformation or decalcification caused by tectonic and hydrothermal forces. The finer grained siliceous argillites are generally unmineralised due largely to low porosity and poor permeability caused by weak hornfelsing and plastic deformation.

3.2.1 Mineralized Intrusive Rocks

3.2.1.1 Quartz Monzonite

Eighty-five percent of the known gold mineralization is hosted by a single lithology, namely quartz monzonite. Excluding the Classic Zone, mineralized quartz monzonite occurs in every deposit and exploration target area delineated to date.

Mineralization is intimately associated with pervasive phyllic and locally intense argillic alteration. This assemblage is characterized by destruction of mafic phenocrysts, alteration of feldspars to sericite, presence of illite and kaolinite, and introduction of secondary quartz with fine-grained pyrite and arsenopyrite. Silicification occurs primarily as coarse grained (0.5-2 cm wide) milky white quartz veinlets which have been overprinted by a wispy-textured hairline quartz stockwork. These two cross cutting vein systems are well developed adjacent to narrow fault gouge zones producing locally pervasive silicification. These areas contain some of the highest grade mineralization on the property yielding values up to 16 gpt Au over 6 metres (Kokanee Zone, K-6 bulk trench). However, high gold values are also associated with intense fracturing and weak silicification, suggesting that the more subtle and passive hairline stockworking is the main mineralising event. A weak propylitic halo, defined by weak chloritization of mafic phenocrysts and strong carbonatization, is commonly found associated with and peripheral to the mineralization. The introduction of carbonate to the matrix may have allowed decalcification and subsequent silicification during the phyllic overprint stage. This style of alteration is subtle, showing no signs of stockworking or brecciation but exhibiting well preserved feldspar megacrysts within an aphanitic, siliceous and pyritic groundmass.

Stibnite veins, 1 to 20cm thick, are common within the mineralized zones but rarely contain any significant gold values. Silicified intrusive clasts within these veins imply that the stibnite may represent a later hydrothermal event which occupied the same structures as the gold mineralising event.

Oxidation, here defined by weathering of biotite and sulphides to limonite, is extensive, extending from surface to an average depth of 50 metres. Common oxide minerals are goethite after pyrite, scorodite after arsenopyrite and antimony ochre and kermesite after stibnite.

Due to the important economic considerations of oxidation, the quartz monzonite sills have been divided into two variants; altered quartz monzonite (AQM), referring to the sulphide or hypogene zone where sulphides

have undergone little or no oxidation and a weathered or pervasively oxidised variant called limonitic quartz monzonite (LAQM), where the majority of sulphides have been destroyed.

A selected suite of altered and unaltered quartz monzonite was analysed by whole-rock technique to determine the relationship between the major element chemistry and gold mineralization. These results exhibit a strong positive correlation between alteration and gold, consistent sodium and potassium depletion, and silica enrichment.

3.2.1.2 Biotite Monzonite and Syenite

Mineralization of the biotite monzonite and syenite is restricted to the Classic Zone centered at 19000E/16800N. Alteration, consisting of pervasive sericitization, limonite staining due to the destruction of hornblende, biotite and minor pyrite and carbonatization extends for over one kilometre along a northwesterly strike and ranges between 200 and 600 metres wide. Calc-silicate skarn minerals such as tremolite, epidote and calcite are common near hornfelsed sedimentary contacts. Gold, however, appears to be intimately associated with centimetre scale NW trending en echelon quartz veinlets within this broad alteration halo. These veinlets are more distinct and recognisable in less altered intrusive and suggest that the intense sericitization and carbonatization may indicate retrograde alteration which has overprinted the silica/gold event. The Classic Zone continues to be a target of considerable interest and tonnage potential, as the soil anomaly extends for 5 kilometres and oxidation extends to a depth of greater than 100 metres. Drilling has returned values up to 0.41 gpt Au over 100 metres and 0.61 gpt Au over 46 metres. Individual two metre assay intervals within these broad intercepts are relatively uniform ranging between 0.25 and 1.0 gpt Au. (Refer to Section 3.8.3 for 1997 Classic Zone exploration results.)

3.2.2 Mineralized Sandstone and Shale

Mineralization in siliclastic rocks is confined to the Pacific, Blue and Moosehead Zones. Oxidation, when compared to the intrusive rocks, is weak, limited to a depth of 25 metres. Gold values here are more directly associated with arsenopyrite than is apparent elsewhere, yielding values up to 7.5 gpt Au over a 28 metre true thickness (BC-DDH-91-461).

Alteration is characterised by intense fracturing occupied by fine quartz stockwork and cryptocrystalline montmorillonite within a well foliated groundmass of sericite and detrital quartz. Very fine-grained pyrite (trace to 10%) is disseminated throughout the siliceous stockwork. Cement prior to mineralization appears to have been silica (noted in thin sections as overgrowths on monocrystalline quartz grains). Stibnite occurs as veins and pods up to 1cm wide. Preliminary ground radiometric surveys within the Blue and Pacific Zones show consistent potassium enrichment associated with mineralized sandstone and shale.

3.2.3 Mineralized Argillite

Although argillite is a dominant rock type in most of the deposits, it is generally unmineralized. Elevated gold values in argillites are largely confined to highly sheared graphitic and stockworked contacts between the mineralized intrusives and coarser clastic sediments. The lack of mineralization within this heavily tectonized unit raises questions about the function of graphite or carbonaceous material in the argillite acting as a chemical front or inhibitor for gold deposition.

3.2.4 Mineralized Calcareous Siltstone

The 1994 and 1995 exploration programs discovered a new style of mineralization within Road River Group Steel Formation siltstone in the North Slope Zone. Until 1994 all significant mineralization was confined to sills and Earn Group siliclastic rocks in the hanging wall of Early Devonian tectonized graphitic argillite. Thus mineralization at Brewery Creek could be classified as "Carlin-like" at best since host rocks were non calcareous and silicification was relatively weak primarily confined to fine stockworks. However, the Steel Formation, a calcareous and pyritic siltstone, appears to exhibit pervasive decalcification and subsequent replacement with fine sericite, illite, montmorillonite, silica and pyrite along fractures and bedding which are typical characteristics of Carlin style mineralization. Thin section analysis shows silica replaced siltstone fragments within a foliated groundmass of sericite, illite and montmorillonite. Microcavities caused by the dissolution of interstitial carbonate in the siltstone are filled with cryptocrystalline clay minerals and minor silica producing a soft, porous tuffaceous texture. Later stage quartz-stibnite stockworking is also common, forming localised fault breccias. In some cases alteration is inconspicuous and difficult to recognise. In general, mineralized siltstone, with grades up to 16 gpt Au, can have the same colour, hardness and apparent carbonate and sulphide content as unmineralized siltstone. Furthermore, the Steel Formation has striking similarities, both in age, lithology and in alteration or the lack thereof, with the highly productive Roberts Mountain Formation in the Carlin Trend.

Mineralized Steel Formation also occurs in the Schooner Zone where drilling has returned intersections of 1.1 gpt Au over 50 metres. Mineralization here appears to be fracture controlled associated with chalcedonic quartz stockwork zones in massive argillic siltstone. The argillic texture is thought to be the result of weak hornfelsing caused by nearby biotite monzonite intrusive bodies. Stockwork consists of chalcedonic quartz veinlets up to 1cm thick. A bleached sericitic alteration halo up to 20 metres wide envelops the more siliceous mineralization. Calc-silicate minerals such as tremolite, actinolite and calcite are also common within this halo. Pyrite occurs along fracture surfaces and along weakly developed bedding planes while stibnite occurs locally as discontinuous pods and veins up to 2cm thick. Oxidation is weak to moderate, limited to a depth of 30 metres. The presence of skarn minerals, hornfelsing, proximity to biotite monzonite intrusives and absence

of mercury suggest a higher temperature and deeper level hydrothermal system than what is found in the Reserve Trend or North Slope Zone.

3.3 Relationship between Mineralization and Structure

Four structural fabrics, WNW trending imbricate listric normal faulting, NNE and WNW sub-vertical shears, NNW high angle faults and south vergent folded bedding are the main genetic controls to gold mineralization in the Reserve Trend. Outside the main deposit corridor, a NW trending structure parallel to the Tintina Trench appears to control mineralization in the Classic Zone.

3.3.1 Mineralization and Listric Normal Faults

The dominant control to gold mineralization is EW to ESE trending imbricate listric normal faults (reactivated thrust faults) which have been delineated along a twelve kilometre strike length extending from the Big Rock to the Sleemans Zone. Later shearing and extension along thrusts produced the necessary open space for migration of gold bearing hydrothermal solutions. The repetitious, imbricate nature of these structures commonly forms stacked (up to three), moderate to gently dipping (005° to 060°) mineralized domains. These faults are localised along contacts between fine-grained graphitic argillites (barren footwall) and the brittle, coarse-grained clastic sediments and intrusive rocks (mineralized hanging wall). Fracture intensity, alteration and associated gold values generally increase toward these contacts and up dip. Higher gold values in the near surface environment may be attributable to steeper fault contacts caused by greater imbrication. Furthermore, footwall argillites may have acted as a physical (permeability) trap, thereby concentrating ascending gold-bearing solutions.

More detailed stratigraphic trenching and mapping is needed to assess the potential for normal faults which cut through calcareous Road River Group rocks. North Slope Zone drill intersections of 13 gpt over 4 metres and 2.56 gpt Au over 16 metres in Steel Formation siltstone occur in the hanging wall of an easterly striking, gentle south dipping graphitic fault. This footwall structure is commonly intruded by quartz monzonite sills, suggesting a similar structural setting as the Reserve Trend. The upper part of the Steel Formation in the North Slope and North Golden Zones is characteristic of interbedded graphitic argillite, chert and calcareous siltstone. Weak graphitic beds within the siltstone appear to provide a favourable locus for later normal faulting and migration of hydrothermal solutions into calcareous hanging wall rocks.

3.3.2 Mineralization and WNW, NNE Shears

Mineralized sub-vertical WNW and NNE shears are common in the hanging wall of imbricate thrust faults. Fractures are generally occupied by en echelon quartz veinlets (commonly less than 1cm wide) which contain fine-grained arsenopyrite. In the Golden Zone bulk trench, a NNE fabric has developed into a 10 metres wide vertical quartz breccia shear zone crosscutting quartz monzonite. These shear systems appear to form minor vertical and moderate north and south dipping ore chutes within the broader gently dipping mineralized domains of listric normal faults. Higher grade mineralization is intimately associated with greater fracture intensity with or without pervasive silicification. The wide range in shear dip and their geometric relationship between bounding reactivated thrusts also suggests minor graben style extension (refer to section 2.2.3.3 of this report). Drilling to date has consistently shown that these shears and associated mineralization are bounded at depth by gentle south dipping, graphitic master graben faults (i.e. listric normal faults).

3.3.3 Mineralization and NNW faults

Exploration work in 1997 discovered mineralized NNW high angle faults in the Lucky, Moosehead and East Big Rock Zones. In the East Big Rock and Lucky Zones, these structures appear to down drop mineralized domains by as much as ten to twenty metres suggesting that movement occurred during and after the mineralising event. In the Lucky Zone these structures appear to cut through the bounding graphitic footwall returning grades of 5.2 gpt Au over four metres in fault breccia. A NNW fault in the Moosehead Zone bounds the eastern edge of the zone juxtaposing Cambrian phyllite against mineralized Devonian Earn Group shale indicating hundreds of metres of displacement. The magnitude of displacement and apparent continuity of mineralization below the graphitic footwall in the Lucky Zone suggest that these structures may represent deep seated feeder structures.

3.3.4 Mineralization and South Vergent Folding in Sedimentary Rocks

Mineralization in the Blue Zone and North Slope Zone appears to be controlled by broad south vergent folds in thin bedded Earn Group silty shale and Road River Group siltstone rather than in the cross cutting planar shears mentioned earlier. Although stockworking is present, silicification primarily occurs as fine grained en echelon quartz veinlets along bedding. Structural deformation and associated mineralization are best developed in the hinges of these folds. Two bulk sample trenches (3-5 metres deep) exhibit a south vergent isoclinal synform which bounds higher grade mineralization averaging 6 gpt Au. Drilling has delineated this grade along a strike length of 200 metres. This style of deformation is common regionally throughout the Selwyn Basin; however, the folding appears to be very localised and as a result interpreted to be a manifestation of drag along south dipping normal faults. Similar to other Reserve Trend deposits, however,

mineralization in the North Slope and Blue Zones is bounded at depth by a gently dipping , planar graphitic surface.

3.3.5 Mineralization and NW Classic Zone Structure.

A southeasterly trending (135°) sub-vertical extensional fault hosts low grade gold mineralization (0.3 to 0.6 gpt Au) along a 500 metre strike length in the Classic Zone. Unlike the thrust fault regime, alteration is not localised along the sediment-intrusive sill contacts but cross-cuts syenite and biotite monzonite stocks vertically to depth. Centimetre scale en echelon quartz veinlets parallel this structural trend and dip moderately (60°) to the southwest. A strong gold-arsenic soil anomaly parallels this structure and extends 5 kilometres from the Pacific Zone through the Classic to the South Klondike River Valley. Further exploration work is needed to assess the ultimate gold potential along this trend.

3.4 Geochemistry

The Brewery Creek deposit was discovered while investigating regional stream sediment geochemical anomalies. Geochemistry has subsequently played a central role in exploration and a considerable database of soil and lithogeochemical data has been accumulated.

3.4.1 Lithogeochemistry

In excess of 50,000 samples of reverse circulation drill chips, trench samples and drill core have been analysed for gold, and a lesser number for a variety of other elements (typically As, Sb, Hg, Pb and Zn). Numerous 30 element ICP scans have also been completed on these samples, and thus the geochemical characterisation of the ore zones and property lithologies is well known. The ores are elevated in gold but also contain anomalous arsenic and, in places, antimony. Barium is locally anomalous and a broad mercury signature is characteristic.

3.4.2 Soil Geochemistry.

Soil geochemistry has been an important exploration tool and the results of these surveys provide insights into the geochemistry of the ore systems.

The hydrothermal system at Brewery Creek is anomalous in gold, arsenic, antimony and mercury. Enriched zinc and lead values are characteristic of Earn Group sediments and this association further expands the ability

to map potentially favourable targets. Silver is weakly anomalous and erratic, associated with both zinc in the sediments and gold within the epithermal system. A total of 8,340 soil samples were collected on the property between 1988 and 1992. Samples were acquired at 50 metre intervals on either 100 or 200 metre spaced lines over mineralized zones. Four hundred metre line spacing was utilised in the southwestern and southcentral part of the property. The samples were analysed for an extensive suite of elements including gold, silver, antimony, arsenic and mercury. Approximately two thirds of the soil samples were also analysed by ICP scan for a further 30 elements.

A total of 10,718 soil samples were collected between 1994 and 1996 across previously sampled portions of the exploration grid, with less than 10% of the total used to extend anomalies south of the Classic Zone and West of the Big Rock Zone. Soil samples were collected at 25 metre intervals in areas of moderate topographic relief or at 12.5 metre intervals in subdued relief on lines spaced 100 metres apart. Bedrock and surficial geology were also mapped at each sample site during this latter program.

In 1997 a total of 145 line kilometres were sampled at 25 metre intervals on lines spaced 100 and 200 metres apart across the central property area (See Plate 3). The purpose of the sampling was to better define anomalous gold trends in the South Canadian Zone associated with an easterly trending, gentle south dipping thrust fault (See Plate 2).

3.4.2.1 Gold

Gold-in-soil geochemistry defines two major trends (See Plate 2).

i) An east trending 12 kilometre by 2 kilometre anomaly delineates the Big Rock, Pacific, Blue, Moosehead, Canadian, Fosters, Kokanee, Golden, Lucky, Bohemian, Schooner and Sleemans Zones. This anomaly subparallels the outline of the quartz monzonite sills and associated listric normal faulting. The trend is abruptly cut off to the east at Golden Creek, which may represent a post-mineral fault. A parallel gold trend 500 metres south of the Canadian- Golden pits outlines a thrust fault extending for over 3.5 kilometres.

ii) A 135° trending anomaly parallels a strong photo-geologic lineament extending from the Pacific Zone through the Classic Zone. Gold values are strongest in the Classic Zone where a sub-vertical normal fault cross-cuts syenite and biotite monzonite stocks.

3.4.2.2 Arsenic

There is a strong positive correlation between arsenic and gold with an approximate relationship of 1 ppm As to 1 ppb Au. Arsenic-in-soil geochemistry is slightly more dispersed, but reinforces, and in some places better defines the mineralized structural trends (i.e. Classic Zone).

3.4.2.3 Antimony

Antimony is the least mobile element, apparently restricted to the main 12 kilometres east-trending gold zone. Antimony, in the form of stibnite, occurs as discontinuous stibnite veins cross-cutting mineralized quartz veinlets and is found in all mineralized areas except the Classic and Moosehead Zones. This sporadic association with gold implies that antimony may represent a later hydrothermal event which occupied some of the same structures as gold. As a general statement, elevated antimony may accompany gold, but does not always, and can occur independently of gold.

3.4.2.4 Mercury

Of those elements analysed, mercury is the most widely dispersed element, forming a regional anomaly, but still reinforcing the main east-west trending gold-arsenic signature. Mercury values in individual pit areas are not necessarily elevated above the regional anomaly. Like antimony, mercury is absent from the Classic Zone. The absence of both along the Classic Zone gold-arsenic trend implies that mineralization along this structure may be lower level than the east-west listric normal and strike-slip faulting controls in the main trend.

3.5 Preg-Robbing Characteristics of Graphitic Argillite

Metallurgical testwork has been conducted on argillite and graphitic argillite in order to assess their preg-robbing tendencies, and thereby the implication for reduced leach recovery within the heap. Bounding footwall argillites as well as intercalated graphitic argillite lenses within mineralized zones were specifically sampled and tested to determine if selective mining will be required to avoid possible preg-robbing lithologies. Results show a strong correlation with the oxide/sulphide interface and paleo-water table boundaries. The following generalised conclusions can be made:

1. Within the oxide facies of the deposits (i.e. presence of significant limonite and absence of visible sulphide) lying above the paleo-water table, graphitic argillite is demonstrably not preg-robbing. Neither the percentage of visible graphite nor its morphology (even where mapped as massive, 'sooty' graphite) apparently affects leach rate or recovery.
2. Within oxidised portions of the deposits lying below the paleo-water table, graphitic argillite is variably weakly to moderately preg-robbing.
3. Within the transition facies, graphitic argillite is commonly weakly preg-robbing if located above the paleo-water table, and moderately to strongly preg-robbing below the paleo- water table.

4. Within the sulphide facies of the deposits (occurrence of > 1% sulphides and the absence of visible limonite) graphitic argillite is always strongly preg-robbing.

3.6 Occurrence of Gold

Microprobe work on selected mineralized samples was conducted at the University of Western Ontario in 1990. Results show that gold occurs primarily as sub-micron particles in solid solution with arsenopyrite and pyrite as growth bands around larger sulphide grains. Most of the gold is concentrated in the outer rim and only limited oxidation is required to liberate it from solid solution. The sulphide grains themselves are typically very fine grained (100 to 250 microns).

3.7 Geological Model of Mineralization and Alteration Process

Geological, geochemical, petrographic and fluid inclusion data indicate that original sill emplacement and first stage alteration and associated mineralization occurred at a relatively low temperature and high level within the crust. This theory is supported by gold, arsenic, antimony, mercury association within veins and breccias; very low base metal concentrations; absence of hornfelsing in sediments around quartz monzonite sill contacts; euhedral, coarse grained quartz with primary growth zones; open space filling textures such as comb and cockade textured quartz and chalcedony; the presence of trace amounts of CO₂, low salinities (< 7% NaCl) and low homogenisation temperatures (<300° C) within fluid inclusions. Based on this evidence an original epithermal depositional environment is suggested. However, the presence of later stage wispy-textured quartz veinlets, related to later shear zone deformation, indicates deposition at moderate to deep levels (Dunne, 1995); a common characteristic of Carlin type deposits (Poulsen, 1996). Although reserves delineated to date consist of fracture controlled quartz stockworks in siliclastic and intrusive rocks, the presence of decalcification and silica replacement in the stratigraphically lower calcareous Steel Formation suggest that a Carlin Type model may be appropriate at Brewery Creek.

Although differences in alteration and bulk chemistry between the Reserve Trend and Classic Zone intrusives suggest two separate magmatically evolved hydrothermal systems, their close proximity to each other raises questions about whether they are structurally linked (i.e. Could the radiometrically hot, deeper level Classic intrusives represent a source of hydrothermal solutions for the more distal, lower temperature epithermal and Carlin style mineralization found in the Reserve Trend?). South dipping reactivated thrust faults may represent the structural conduit.

Recent discovery of mineralized NNW high angle faults in the Lucky, East Big Rock and Moosehead Zones, which penetrate the graphitic footwall, may indicate another deeper structural sulphide target that feeds an E-W trending statabound dilatant zones caused by listric normal faulting along pre-existing thrust faults. Deeper

drilling across these structures is highly recommended to assess higher grade replacement potential within calcareous Road River Group and Rabbitkettle Formation at depth.

3.8 Exploration Areas; 1997 Summary of Work, Significant Results and Recommendations for 1998 Work

The following is a brief discussion of exploration work carried out in 1997 outside of currently defined pit limits. These target areas, from west to east span across a cumulative strike length of 15 kilometres and include the West Grid, West and East Big Rock, Classic, Moosehead, South Canadian, North Slope, Lucky, Bohemian, Schooner and Sleemans Zones (See Plate 3). Refer to the 1996 Brewery Creek Report for detailed descriptions of the minable Reserve Trend Deposits. Additional resources totalling 483,205 oz. were defined in the Lucky, Bohemian, North Slope and Classic Zones and all remain open ended along strike. The zones are listed and discussed by priority in terms of their significance to increase the geological resource base and recommendations are put forward for future work in 1998.

3.8.1 SE Lucky Zone

A total of 28 holes for 1868 metres were drilled south and east of proposed 1996 pit limits (See Plate 4). An undiluted resource of 1.71 MT averaging 2.63 gpt Au (143,3264 oz.) was defined in gentle to moderate south dipping LAQM and AQM sills. Approximately 36% of the total resource is classified as oxide based solely on geology. Metallurgical testwork will be conducted in 1998 to confirm oxide/transition and transition/sulphide boundaries. For details on the resource calculation refer to the memo titled "Lucky-Bohemian Resource Estimate" by V. Park dated February 12, 1998. Oxide intercepts of 1.67 gpt Au over 16 metres in RC97-1992 remain open to the east and transition sulphide intercepts up to 3.35 gpt Au over 12 metres in RC97-2023 remain open down dip to the southwest.

A mineralized high angle NNW normal fault was also discovered along the north trending tributary of Lucky Creek returning 5.21 gpt Au over four metres at the end of RC97-1987 in brecciated calcareous footwall rocks. In addition, this fault down drops mineralized LAQM sills by as much as 20 metres indicating movement during and after the mineralising event. Trenching 200 metres grid south returned 6.9 gpt Au over 9 metres within LAQM in fault contact with a flat lying graphitic argillite footwall. Drilling 25 metres to the northwest (RC97-1975 and 2007 through 2009) failed to intersect the mineralized sill suggesting that this NNW fault may splay into two parallel structures forming a narrow graben along the trace of the creek (See long section on Plate 4). Repetitive reactivation and its apparent continuity of higher grade mineralization below the graphitic footwall suggest that this structure may represent a deep seated feeder.

Work in 1998 will focus on defining more oxide and transition mineralization along strike as well as deeper drilling across NNW structures to define possible higher grade feeders and replacement deposits in calcareous stratigraphy at depth.

3.8.2 Bohemian Zone

Eighteen holes for 1120 metres and four trenches for 307 metres were completed in the Bohemian Zone and helped to define an oxide resource of 0.36 MT averaging 0.99 gpt Au (See Plate 4). The oxide classification is based only on geology and metallurgical testwork will be needed in 1998 to confirm cyanide recoveries. For details on the resource calculation refer to the memo titled "Lucky-Bohemian Resource Estimate" by V. Park dated February 9, 1998. Oxide drill intercepts up to 1.57 gpt Au over eight metres in RC97-1972 remain open to the east.

Narrow and erratic mineralization is exclusively hosted within two gentle southwest dipping LAQM sills each bounded by a graphitic argillite footwall. Subvertical NNE shears control narrow high grade chutes within the hanging sills returning up to 5.38 gpt Au over fourteen metres in TR97-Bo4 and 2.75 gpt Au over four metres in TR97-Bo5. However, drilling along strike of these trench intercepts failed to produce similar results, suggesting that these shears are relatively minor and erratic compared to the more consistent flat lying ESE graphitic footwall structures. Like other Reserve Trend deposits the NNE shears appear to widen with depth toward the bounding graphitic footwall. The shear zone intersected in TR97-Bo4 thins from fourteen to a one metre width in less than 6 metres of elevation from the graphitic footwall. In general, the mineralized sills in the Bohemian Zone can be interpreted as extensions from the Lucky Zone with the flat lying graphitic footwall day lighting across the Lucky Creek drainage at the 770 metre elevation. An inferred post ore fault following the trace of a north flowing tributary of Lucky Creek appears to off set the graphitic footwall as much as fifty metres (See Plate 4).

Work in 1998 will focus on delineating oxide resources along strike to the east from RC97-1972. E-W drilling across the inferred post ore fault is also recommended to determine whether it may also control mineralization or represent a deep seated feeder similar to the structural setting described in the Lucky Zone.

3.8.3 Classic Zone

Eleven holes for 1634 metres and seven trenches for 1148 metres were completed along a one kilometre strike length (See Plate 5). Five kilometres of road construction were also completed south of the area of drilling to provide access to the southern extension of the NW trending gold-in soil anomaly. Drilling and trenching helped define an intrusive hosted resource of 10.9 MT @ 0.52 gpt Au (182,750 oz.). Due to the broad low grade trench and drill intercepts (up to 0.61 gpt Au over 46 metres) a minimum eight metre composite length and cut off grade of 0.25 gpt Au were utilised for constructing grade polygons. Grades of individual two

metre sample intervals were very uniform ranging between 0.25 and 1.00 gpt Au. For details on parameters used for the resource calculation refer to the memo titled Resource Estimate for the Classic Zone by E. Detra, dated January 29, 1998. The entire resource is classified as oxide as sulphides were absent within mineralized zones and oxidation persisted to depths greater than 100 metres. Metallurgical testwork will be conducted in 1998 to determine cyanide recoveries. Potential to increase this resource is considered good as drill intercepts of 0.40 gpt Au over 40 metres remain open to the northwest and only 20% of the five kilometre gold-in soil anomaly has been drill tested.

Mineralization is associated with centimetre scale sheeted quartz veinlets which strike northwesterly and dip moderately to the southwest. These veins are primarily hosted within sheared biotite monzonite and lesser syenite which are bounded to the east by hornfelsed Steel Formation siltstone. Although this intrusive-sediment contact parallels the sheeted quartz veinlets the contact itself does not appear to control or concentrate gold mineralization. Moderate to intense sericite, carbonate and limonite alteration appears to overprint the mineralized quartz veinlets making it difficult to identify them when field mapping or RC chip logging. The lack of pervasive alteration associated with gold mineralization in the Classic Zone is characteristic of the multi-million ounce Fort Knox and Dublin Gulch type gold deposits.

Work in 1998 will focus on step out drilling to the northwest of RC97-1995 and 1996 and systematic mapping and trenching across the recently accessed soil anomalies to the southeast. Further road construction in permafrost to the northwest is also recommended if results from drilling are favourable.

3.8.4 East Big Rock - Pacific Zones

Seventeen holes for 963 metres and four trenches for 226 metres were completed along the western and eastern edges of the zone in order to define oxide deposit limits (See Plate 6). Although erratic, the strike of the deposit was extended an additional 150 metres with oxide intercepts of 1.06 gpt Au over 20 metres in RC97-2029 remaining open to the west and 2.54 gpt Au over 6 metres in RC97-2005 remaining open to the east.

Mineralization is exclusively hosted within an easterly striking moderate to gentle south dipping LAQM sill. Along the eastern edge of the zone a NNW brittle structure, believed to be the northwest extension of the Classic Fault, bounds and controls emplacement of the mineralized sill. Parallel subvertical shears within the sill suggest that this fault also had movement during the mineralising event. Trenching and drilling within this fault zone between 17000E and 17150E returned narrow and disjointed mineralization. Outboard to the east, the mineralized sills appear to revert to a more easterly strike (similar to the western part of the zone) suggesting that the NNW fault may have had post ore right lateral movement on the order of 350 metres. Along the eastern edge of the zone, high angle normal faults down drop the mineralized sill as much as 30

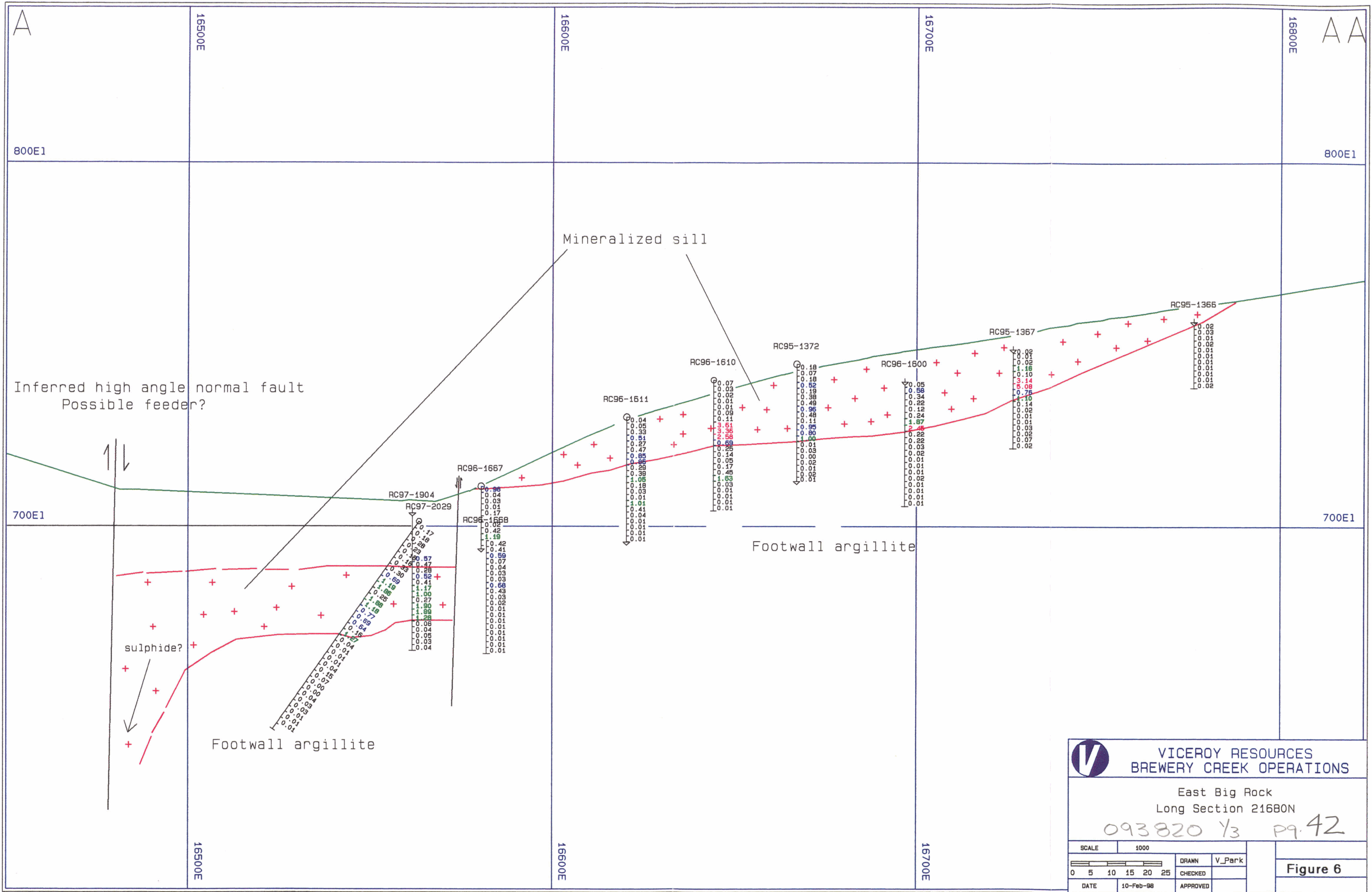
metres (See Figure 6). Structural mapping and sampling of road cuts in this area indicate that these structures are also mineralized (returning grades of 2.3 gpt Au) and may represent a possible feeder target .

Three holes for 320 metres were also drilled across the interpreted Classic Fault between the East Big Rock and Pacific zones. Although obvious displacement of stratigraphy in the order of 50 metres was apparent across the interpreted structure, including 40 metre thicknesses of LAQM and pyritic Earn Group sediments, no significant results were returned.

Work in 1998 will focus on systematic step out drilling east of RC97-2005 and 2004 and west of RC97-2029 to define additional oxide resources. Deeper E-W orientated drilling across interpreted NNW faults is also recommended to define possible feeder structures that may control higher grade sulphide deposits at depth.

3.8.5 North Slope Zone

A total of nine holes for 1291 metres and one trench for 60 metres were completed in the North Slope Zone and helped define an undiluted resource of 2.2 MT averaging 2.01 gpt Au (143,814 oz.) (See plate 7). For details on parameters used for the resource calculation refer to the memo titled Resource Estimate for the North Slope Zone by E. Detra, dated October 25, 1997. The resource is hosted primarily within fractured Steel Formation siltstone and lesser LAQM and AQM sills. Approximately 24% of the total resource is classified as oxide based upon limonite content and oxidation states of pyrite. Metallurgical testwork is recommended in 1998 to refine oxide, transition and sulphide boundaries. Drill intercepts up to 2.87 gpt Au over 6 metres in RC97-1772 remain open to the east.



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SCALE	1000	DRAWN	V_Park
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Figure 6

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Mineralization is controlled by south vergent folds within thin bedded siltstone and argillite. Mineralized widths are generally narrow ranging between 4 and 16 metres but grades are typically higher than most Reserve Trend deposits ranging between 2.0 and 13 gpt Au. Thin AQM sills commonly form the footwall to mineralization and in part are also mineralized. South vergent folding is believed to be a manifestation of drag along moderate south dipping normal faults producing well developed axial planar cleavage in the hinge zone (See cross section on Plate 7). This style of deformation is seen in minor folding in trench and road cut exposures throughout the zone. Outboard from the hinge zone fracturing and associated mineralization weaken, forming a south dipping mineralized lense which pinches out at either end.

Conduits for this type of mineralization maybe derived from major NNW trending faults to the west which bound a unique steep east dipping stratigraphic block between the North Slope and Moosehead zones (See long section on Plate 7). DD96-85, 400 metres south of the zone, returned 2.63 gpt Au over 13.8 metres within intrusive hosted fault breccia and may be related to these major NNW structures. Trenching and E-W orientated and drilling across these NNW faults is recommended in order to determine their relationship with the stratabound mineralization in the North Slope Zone.

3.8.6 Moosehead Zone

Twenty holes for 990 metres and five trenches for 423 metres were completed east of the Moosehead Zone and extended the strike of the deposit an additional 350 metres (See Plate 7). Significant results include 2.15 gpt Au over 24 metres in TR97-M22, 4.50 gpt Au over 4 metres in TR97-M23, 2.47 gpt Au over 6 metres in RC97-1931, 0.93 gpt Au over 8 metres in RC97-1937 and 1.44 gpt Au over 6 metres in RC97-1947. All intercepts are within 25 metres from surface and are hosted within sheared Earn Group silty shale and thin LAQM sills forming narrow flat lying erratic zones along pre-existing thrust surfaces (See long section on Plate 7). Continuity of mineralization between sections is poor with down dip potential confined to less than 15 metres. As a result, this eastern extension of the Moosehead Zone is expected not to figure significantly in increasing oxide reserves (<10,000 oz). A deep intercept of 0.66 gpt Au over 10 metres in RC97-1938 at a 50 metre depth may indicate some limited oxide potential 200 metres further north. Mineralization is bounded to the east by a major NNW, subvertical post-ore fault which juxtaposes a unique east dipping stratigraphic block against the flat lying sediments in the Moosehead Zone. This fault, between TR97-M22 and M23, separates Cambrian phyllite from Devonian shale suggesting hundreds of metres of displacement. Although this fault to date does appear to control mineralization near surface, its apparent degree of displacement which bounds different stratigraphic and structural domains suggests that it may be a possible feeder target for replacement deposits at depth.

Work in 1998 will focus on detailed mapping, trenching and E-W orientated drilling across the unique east dipping structural block which separates the Moosehead and North Slope Zones in hopes of defining higher grade feeder structures and possible replacement deposits within calcareous rocks at depth.

3.8.7 South Canadian Zone

Two holes for 152 metres and two trenches for 84 metres were completed in the South Canadian Zone targeting a narrow easterly trending gold-in-soil anomaly 500 metres south of the Canadian and Kokanee pits.

A total of 2,457 soil samples were also collected to better define the anomalous trend between 19500E and 23000E. (See Plates 1,2 and Figure 7). Results from trenching and drilling were disappointing, returning one low grade intercept of 0.86 gpt Au over 6 metres in TR97-SC1.

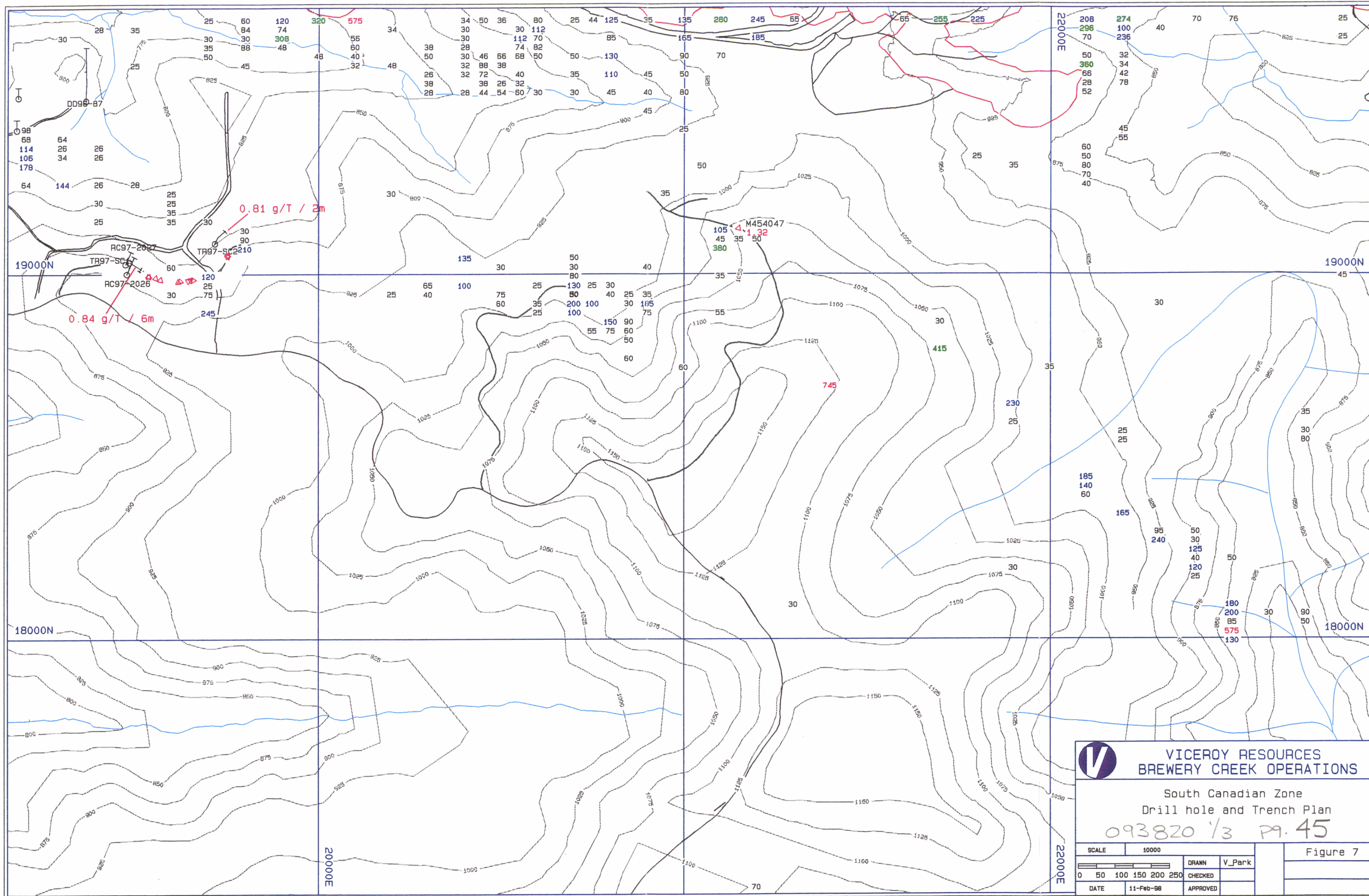
The gold-in-soil anomaly and associated mineralization correlate with an easterly striking, southwest dipping thrust juxtaposing Steel Formation siltstone over Earn Group silty shale. LAQM sills intrude the thrust contact and are occasionally mineralized returning 2.00 gpt Au over 1 metre. Fracture intensity and clay alteration are best developed in the footwall of the thrust within Earn Group silty shale returning 0.86 gpt Au over 6 metres in TR97-SC1. Two holes were drilled over this trench intersection but returned only anomalous results (0.54 gpt Au over 4 metres). Trenching further east along the anomaly at 21000E intersected fractured Steel Formation siltstone but returned only anomalous results. Since the thrust and underlying Earn Group shales were not intersected in this area potential at depth remains. Soil sampling extended the anomaly another 1.5 kilometres to the east where a major NNW creek drainage bounds its eastern limit (See Plate 2). This structural setting, flat lying thrust controlled mineralization bounded by NNW faults, is similar to the Moosehead Zone and may indicate potential for blind sulphide targets along this major NNW trending creek drainage.

Although only narrow low grade mineralization was defined in 1997, the close proximity to the pad and the fact that only 10% of the 2.5 kilometre anomaly has been properly tested make this a priority target for oxide exploration. Further soil sampling, mapping and sampling along the bounding NNW creek drainage is also recommended in hopes of defining blind sulphide targets along high angle normal faults.

3.8.8 Schooner – Sleemans Zones

Ten Holes for 557 metres, 5 trenches for 204 metres, 7 kilometres of road construction and rock sampling were completed across a 2 kilometre trend of anomalous gold-in-soil geochemistry east of the Bohemian Zone (See Plate 8). Significant results included 1.67 and 1.64 gpt Au over 12 and 14 metres respectively in TR97-Bo12, 0.60 gpt Au over 20 metres in TR97-Bo7, 2.26 gpt Au over 4 metres in RC97-2018 and 0.53 gpt Au over 10 metres in RC97-2019. Four rock samples also returned values greater than 1.00 gpt Au over a 15.8 gpt gold-in-soil anomaly at 18800N/24600E.

Most of the significant intercepts were hosted within gentle south dipping LAQM sills similar to the Bohemian Zone and other Reserve Trend deposits. Narrow (less than two metres) sediment hosted mineralized shears and stockwork zones were also defined in footwall Steel Formation siltstone, similar to the North Slope Zone. Due to steep north facing topography and permafrost work was relatively sporadic and confined to north



SC_10000.d1

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

South Canadian Zone
 Drill hole and Trench Plan
 093820 1/3 pg. 45

SCALE	10000	DRAWN	V_Park
	0 50 100 150 200 250	CHECKED	
DATE	11-Feb-98	APPROVED	

Figure 7

trending ridges where bedrock was less than one metre from surface. The drilling focussed around trench TR97-Bo12 and returned several oxide intercepts of 0.50 to 2.0 gpt Au over 4 to 10 metres along a strike length of 200 metres. Structural controls are similar to other Reserve Trend deposits consisting of high angle NE and ESE shears bounded at depth by a gentle south dipping graphitic footwall. One kilometre to the northwest, TR97-Bo7 returned 0.60 gpt Au over 20 metres in a gentle south dipping LAQM sill. This similarity in structure and geology suggests that the mineralized sill defined in the Bohemian Zone may extend a further 2 kilometres through TR97-Bo12 (See Plate 8). Rock sampling down slope to the south in footwall sediments (18750N/24100E and 18800N/24600E) also discovered narrow fracture and stockwork zones within Steel Formation siltstone returning grades up to 3.8 gpt Au over 1 metre. Mineralization appears to be controlled by an erratic subvertical set of easterly striking shears across a maximum width of 50 metres.

Approximately 2 kilometres of road construction were completed in the Sleemans Zone to access gold-in-soil anomalies along Golden Creek (See Plates 2 and 3). Narrow zones of alteration were noted in the road cuts; however, no sampling took place so that more time could be spent on oxide targets closer to the leach pad.

Due to the relatively narrow and low grade mineralization found to date and the long haul distance to the leach pad, the potential to increase minable oxide reserves is considered limited and as a result no work is recommended for 1998. Deep drilling across NNW high angle faults along the Reserve Trend in 1998 may define a new higher grade-type structural target that can be typical to exploration in the Schooner Zone.

3.8.9 West Big Rock and West Grid Zones

Sixteen holes for 828 metres and four trenches for 192 metres were completed in the West Big Rock and West Grid Zones targeting low grade LAQM sills (See Plate 9). Results from the work were disappointing returning only two intercepts of 1.00 gpt Au over 16 metres in TR97-WBR1 and 1.14 gpt Au over 6 metres in TR97-WG1. Drilling returned only anomalous results ranging between 0.36 and 0.90 gpt Au over 2 to 6 metres.

Due to the negative results no work in 1998 is recommended.

CHAPTER FIVE: CONCLUSIONS and RECOMMENDATIONS

The 1997 Brewery Creek exploration program included 10,253 metres of RC drilling, 2,606 metres of trenching, 20 kilometres of road construction and soil and rock sampling around the Reserve Trend and seven other outboard zones. The focus of the program was to define additional oxide resources within a feasible haul distance to the leach pad and was successful in adding 483,205 ounces to the geological resource base. These additions were realised in the Lucky (1.71 MT @2.63 gpt Au), Classic (10.9 MT @ 0.52 gpt Au), North Slope (2.2 MT @ 2.01 gpt Au) and the Bohemian (0.36 MT @ 0.99 gpt Au) zones. All zones remain open along strike. Work 2 kilometres east of the Bohemian Zone returned trench intercepts up to 1.67 gpt Au over 14 metres in LAQM and rock samples up to 3.8 gpt Au in sheared Steel Formation siltstone. Grades intersected in drilling east of the Bohemian were relatively low (0.5 to 1.0 gpt Au) and narrow suggesting limited potential to define a higher grade oxide resource. Drilling untested soil anomalies in the West Big Rock and West Grid zones failed to return any significant results.

Major NNW high angle normal faults were also discovered in the Lucky, Moosehead, North Slope and East Big Rock zones. These faults are primarily post ore structures; however, in the Lucky and East Big Rock zones, they are mineralized returning intercepts up to 5.2 gpt Au in brecciated calcareous footwall rocks. Between the Moosehead and North Slope zones two major NNW faults bound a unique steep dipping structural block juxtaposing Cambrian phyllite against Devonian shale. Although these faults appear to be unmineralized near surface, the magnitude of displacement suggests that these structures are deep seated and may represent a new target for higher grade sulphide or replacement deposits at depth.

Work in 1998 will continue to focus on expanding the geological oxide reserve base as well as evaluating the potential for a higher grade sulphide resource along major NNW high angle faults. Areas which provide the best potential to increase minable oxide reserves, in order of priority, include: Lucky, Bohemian, Classic, East Big Rock, North Slope and South Canadian Zones. Work will include systematic trenching and step out RC drilling to expand upon and currently defined oxide deposit limits. Deeper drilling across major NNW high angle faults is also strongly recommended to define possible feeder sources to the gentle dipping stratabound mineralization across the Reserve Trend. Drill targets for sulphide drilling should be prioritised by their potential to define higher grade deposits (i.e. Lucky) and magnitude of displacement through reactive calcareous rocks of Road River Group and Rabbitkettle Formation (i.e. Moosehead and North Slope zones).

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APPENDIX I

1997 DRILL HOLE AND TRENCH LISTING AND SIGNIFICANT RESULTS

1997 Brewery Creek Exploration
Drill Hole and Trench Summary

Hole ID	Pre Drill	Zone	Month	Northing	Easting	Elev	Az.	Dip	Depth	Comments
RC97-1672	PBR-1	E Big Rock	March	21346.5	17074.7	786.8	0	-55	40	
RC97-1673	PBR-2	E Big Rock	March	21315.7	17075.2	786.1	0	-55	46	
RC97-1674	PBR-3	E Big Rock	March	21285.8	17075.0	785.0	0	-55	50	
RC97-1675	PBR-4	E Big Rock	March	21290.8	17029.7	773.8	0	-55	50	
RC97-1678	PBR-5	E Big Rock	March	21594.4	16924.9	784.4	0	-55	45	
RC97-1677	PBR-6	E Big Rock	March	21580.4	16974.9	786.8	0	-55	50	
RC97-1676	PBR-7	E Big Rock	March	21340.2	16999.5	770.5	0	-55	50	
RC97-1679	PBR-8	E Big Rock	March	21305.5	17123.3	794.4	0	-55	60	
RC97-1680	PBR-9	E Big Rock	March	21276.4	17124.4	793.9	0	-55	60	
RC97-1681	PBR-10	E Big Rock	March	21244.3	17126.6	793.4	0	-90	70	
RC97-1682	PNS-1	North Slope	March	20930.4	20695.3	1076.1	0	-90	140	
RC97-1683	PNS-3	North Slope	March	20859.0	20590.1	1109.4	0	-70	190	
RC97-1684	PNS-2	North Slope	March	20847.2	20696.1	1121.9	0	-90	228	
RC97-1734	PP-1	Pacific	April	20354.0	17899.2	840.7	0	-65	108	
RC97-1735	PP-2	Pacific	April	20370.4	17750.1	824.3	0	-75	80	
RC97-1736	PBR-13	E Big Rock	April	21159.2	17126.5	780.7	0	-55	84	
RC97-1737	PBR-12	E Big Rock	April	21206.6	17124.2	785.9	0	-55	80	
RC97-1738	PBR-14	E Big Rock	April	21225.0	17126.2	793.8	0	-55	60	
RC97-1739	PBR-11	E Big Rock	April	21246.0	17075.5	781.9	0	-55	60	
RC97-1769	PNS-7	North Slope	May	21000.0	20400.0	989.0	0	-55	90	
RC97-1770	PNS-8	North Slope	May	20525.0	20982.0	1037.0	0	-75	104	
RC97-1771	PNS-4	North Slope	May	20970.0	20690.0	1054.0	0	-55	112	
RC97-1772	PNS-6	North Slope	May	20965.0	20790.0	1064.0	0	-55	100	
RC97-1773	PNS-5	North Slope	May	20925.0	20790.0	1080.0	0	-80	126	
RC97-1774	PNS-9	North Slope	May	20425.0	20685.0	1024.0	0	-55	201	
RC97-1910	PBO-1	Bohemian	July	19430.2	23125.6	802.0	0	-55	72	
RC97-1911	PBO-3	Bohemian	July	19454.9	23250.9	793.5	0	-55	90	
RC97-1912	PBO-2	Bohemian	July	19484.9	23250.9	783.8	0	-55	60	
RC97-1913	PBO-8	Bohemian	July	19442.1	23290.8	792.7	264	-55	48	
RC97-1914	PBO-4	Bohemian	July	19453.3	23289.2	793.0	264	-55	50	
RC97-1915	PBO-7	Bohemian	July	19424.4	23399.9	823.7	0	-55	120	
RC97-1916	PBO-6	Bohemian	July	19473.7	23386.9	801.6	0	-55	90	
RC97-1917	PBO-5	Bohemian	July	19458.7	23340.4	797.8	0	-55	100	
RC97-1930	PMH-71	Moosehead	September	20900.4	19400.7	957.1	0	-55	76	
RC97-1931	PMH-72	Moosehead	September	20902.6	19440.3	958.4	0	-55	50	
RC97-1932	PMH-75	Moosehead	September	20893.0	19500.0	961.1	0	-55	40	
RC97-1933	PMH-74	Moosehead	September	20866.2	19501.3	954.4	0	-55	50	
RC97-1934	PMH-77	Moosehead	September	20907.2	19550.2	962.7	0	-55	40	
RC97-1935	PMH-90	Moosehead	September	20950.4	19551.0	962.6	0	-55	50	
RC97-1936	PMH-78	Moosehead	September	20983.2	19550.0	957.7	0	-55	60	
RC97-1937	PMH-79	Moosehead	September	20879.4	19590.5	975.0	0	-55	40	
RC97-1938	PMH-89	Moosehead	September	20919.2	19588.9	973.6	0	-55	62	
RC97-1939	PMH-80	Moosehead	September	20846.0	19624.5	978.3	0	-55	36	
RC97-1940	PMH-83	Moosehead	September	20853.3	19675.4	981.4	0	-55	50	
RC97-1941	PMH-85	Moosehead	September	20860.6	19708.5	987.1	0	-55	50	
RC97-1942	PMH-84	Moosehead	September	20835.0	19709.2	984.3	0	-55	50	
RC97-1943	PMH-86	Moosehead	September	20814.9	19734.9	986.7	256	-55	40	
RC97-1944	PMH-88	Moosehead	September	20822.9	19756.5	994.3	256	-55	50	
RC97-1945	PMH-82	Moosehead	September	20821.0	19674.7	976.1	0	-55	50	
RC97-1946	PMH-81	Moosehead	September	20807.4	19625.2	964.6	0	-55	36	
RC97-1947	PMH-87	Moosehead	September	20882.9	19738.1	996.1	256	-55	56	
RC97-1948	PBR-67	E Big Rock	September	21410.0	17030.0	784.3	0	-55	50	
RC97-1949	PBR-68	E Big Rock	September	21494.4	17075.3	796.2	0	-55	40	
RC97-1950	PBR-69	E Big Rock	September	21368.5	17075.6	788.1	0	-55	42	
RC97-1951	PBR-77	W Big Rock	September	21644.9	15950.8	762.4	0	-55	50	
RC97-1952	PBR-78	W Big Rock	September	21678.8	15950.1	762.1	0	-55	60	
RC97-1953	PBR-72	W Big Rock	September	21664.1	16224.5	776.5	0	-55	50	
RC97-1954	PBR-73	W Big Rock	September	21640.7	16174.5	776.2	0	-55	40	
RC97-1955	PBR-74	W Big Rock	September	21670.2	16175.2	776.3	0	-55	50	
RC97-1956	PBR-75	W Big Rock	September	21630.7	16075.2	770.5	0	-55	60	
RC97-1957	PBR-76	W Big Rock	September	21669.6	16074.6	771.3	0	-55	78	
RC97-1958	PWG-10	West Grid	September	21894.9	15218.6	680.9	0	-55	50	

Hole ID	Pre Drill	Zone	Month	Northing	Easting	Elev	Az.	Dip	Depth	Comments
RC97-1959	PWG-9	West Grid	September	21867.2	15222.3	671.1	0	-55	40	
RC97-1960	PWG-8	West Grid	September	21854.1	15223.7	670.7	0	-65	40	
RC97-1961	PMH-92	Moosehead	September	20965.7	19401.1	947.7	0	-55	50	
RC97-1962	PMH-91	Moosehead	September	20940.3	19401.9	953.0	0	-55	54	
RC97-1963	PBO-17	Bohemian	September	19446.8	23275.1	790.7	180	-55	50	
RC97-1964	PBO-11	Bohemian	September	19454.6	23250.0	790.6	180	-55	30	
RC97-1965	PBO-12	Bohemian	September	19456.5	23250.2	790.7	0	-90	30	
RC97-1966	PBO-9	Bohemian	September	19453.4	23224.0	790.9	180	-55	30	
RC97-1967	PBO-10	Bohemian	September	19474.8	23225.7	781.8	180	-55	30	
RC97-1968	PBO-20	Bohemian	September	19428.6	23200.9	802.2	180	-55	70	
RC97-1969	PBO-15	Bohemian	September	19432.7	23236.5	800.6	180	-55	70	
RC97-1970	PBO-18	Bohemian	September	19422.2	23275.0	799.8	180	-55	50	
RC97-1971	PBO-16	Bohemian	September	19407.6	23236.7	811.6	0	-55	60	
RC97-1972	PBO-19	Bohemian	September	19360	23275	825	0	-55	70	
RC97-1973	PL-65	Lucky	September	19613.7	22965.0	808.1	0	-55	50	
RC97-1974	PL-66	Lucky	September	19589.0	22964.1	807.4	0	-55	56	
RC97-1975	PL-77	Lucky	September	19561.0	22974.5	799.5	26	-55	56	
RC97-1976	PL-64	Lucky	September	19610.4	22924.5	822.5	0	-55	64	
RC97-1977	PL-63	Lucky	September	19639.5	22927.6	822.2	0	-55	52	
RC97-1978	PL-58	Lucky	September	19645.4	22874.9	840.5	0	-55	74	
RC97-1979	PL-57	Lucky	September	19674.9	22875.8	839.7	0	-55	70	
RC97-1980	PL-56	Lucky	September	19705.6	22874.9	836.6	0	-55	70	
RC97-1981	PL-55	Lucky	September	19665.6	22815.6	844.9	0	-55	72	
RC97-1982	PL-59	Lucky	September	19754.3	22919.1	825.7	0	-55	76	
RC97-1983	PL-60	Lucky	September	19732.9	22920.3	824.3	0	-55	68	
RC97-1984	PL-61	Lucky	September	19702.0	22925.0	821.7	0	-55	60	
RC97-1985	PL-71	Lucky	September	19702.3	22925.0	821.7	90	-55	60	
RC97-1986	PL-70	Lucky	September	19775.9	22951.6	809.8	270	-55	60	
RC97-1987	PL-69	Lucky	September	19775.0	22991.8	810.2	270	-55	64	
RC97-1988	PL-67	Lucky	September	19724.7	23009.3	806.7	0	-55	60	
RC97-1989	PL-72	Lucky	September	19700	22990	800	270	-55	54	
RC97-1990	PL-68	Lucky	September	19700	23010	800	0	-55	52	
RC97-1991	PL-76	Lucky	September	19665	23050	800	206	-55	50	
RC97-1992	PL-75	Lucky	September	19685	23050	800	206	-55	50	
RC97-1993	PCL-11	Classic	October	17060	18830		65	-55	140	
RC97-1994	PCL-9	Classic	October	17337	18743		65	-55	124	
RC97-1995	PCL-1	Classic	October	17174	18758		65	-55	160	
RC97-1996	PCL-2	Classic	October	17147	18700		65	-55	214	
RC97-1997	PCL-10	Classic	October	17035	18780		65	-55	206	
RC97-1998	PCL-5	Classic	October	16672	18984		65	-55	176	
RC97-1999	PCL-4	Classic	October	16724	19053		65	-55	110	
RC97-2000	PCL-7	Classic	October	16624	19125		65	-55	72	
RC97-2001	PCL-6	Classic	October	16578	19031		65	-55	196	
RC97-2002	PCL-8	Classic	October	16474	19149		65	-55	124	
RC97-2003	PCL-3	Classic	October	16973	18898		100	-55	112	
RC97-2004	PBR-70	E Big Rock	October	21205	17175		0	-55	60	
RC97-2005	PBR-71	E Big Rock	October	21240	17175		0	-55	68	
RC97-2006	PL-62	Lucky	October	19670	22925		0	-55	60	
RC97-2007	PL-73	Lucky	October	19600	23000		26	-55	50	
RC97-2008	PL-74	Lucky	October	19575	23000		26	-55	50	
RC97-2009	PL-78	Lucky	October	19545	22980		26	-55	54	
RC97-2010	PBo-28	Schooner	October	18400	24327		46	-55	60	
RC97-2011	PBo-30	Schooner	October	18375	24373		46	-55	68.5	
RC97-2012	PBo-27	Schooner	October	18424	24352		46	-55	60	
RC97-2013	PBo-24	Schooner	October	18428	24307		46	-55	50	
RC97-2014	PBo-26	Schooner	October	18443	24370		46	-55	40	
RC97-2015	PBo-29	Schooner	October	18398	24395		46	-55	50	
RC97-2016	PBo-23	Schooner	October	18447	24330		46	-55	36	
RC97-2017	PBo-21	Schooner	October	18426	24260		46	-55	66	
RC97-2018	PBo-25	Schooner	October	18406	24285		46	-55	66	
RC97-2019	PBo-22	Schooner	October	18407	24230		46	-55	60	
RC97-2020	PL-82	Lucky	October	19595	22875		0	-55	100	
RC97-2021	PL-79	Lucky	October	19635	22815		0	-55	100	
RC97-2022	PL-80	Lucky	October	19650	19650		0	-55	106	
RC97-2023	PL-81	Lucky	October	19600	19650		0	-55	100	
RC97-2024		Lucky	October	19560	23060			-90	66	piezometer hole

Hole ID	Pre Drill	Zone	Month	Northing	Easting	Elev	Az.	Dip	Depth	Comments
RC97-2025		Golden	October	19610	21900			-90	22	piezometer hole
RC97-2026	PSC-1	S. Canadian	October	18920	19650		50	-55	88	
RC97-2027	PSC-2	S. Canadian	October	18940	19620		50	-55	64	
RC97-2028	PBR-72	E Big Rock	October	21650	16582		270	-55	112	
RC97-2029	PBR-73	E Big Rock	October	21692	16560		270	-55	70	
RC97-2030	PP-1	Pacific	October	20550	17350		50	-55	100	
RC97-2031	PP-2	Pacific	October	20605	17415		50	-55	140	
RC97-2032	PP-3	Pacific	October	20650	17480		50	-55	80	
RC97-2033	PWG-1	West Grid	October	21860	14640		0	-55	60	
RC97-2034	PWG-2	West Grid	October	21830	14640		0	-55	40	
RC97-2035	PWG-3	West Grid	October	21890	14710		0	-55	56	
RC97-2036	PWG-4	West Grid	October	21850	14710		0	-55	68	
RC97-2037	PWG-5	West Grid	October	21890	14870		0	-55	44	
RC97-2038	PWG-6	West Grid	October	21890	14960		338	-55	42	
TR97-NS-1		North Slope	May	21036	20550	1024	280		60	
TR97-M20		Moosehead	May	20935	19515	964	0		39	
TR97-M21		Moosehead	July	20955	19550	962	120		68	
TR97-M22		Moosehead	July	20938	19714	988	120		84	
TR97-BO3		Bohemian	June	19395	23170	815	64		98	Longitudinal trench
TR97-BO4		Bohemian	June	19430	23230	815	64		58	Longitudinal trench
TR97-BO5		Bohemian	June	19460	23240	810	64		24	Longitudinal trench
TR97-BO6		Bohemian	June	19460	23392	810	20		27	
TR97-BO7		Bohemian	June	19210	23710	825	0		38	
TR97-BO8		Bohemian	July	18583	24113	858	040		46	
TR97-BO9		Bohemian	July	18688	24107	835	100		42	
TR97-BO10		Bohemian	July	18728	24091	817	040		10	
TR97-BO11		Bohemian	July	19456	24440	800	65		62	
TR97-BO12		Bohemian	July	18500	24750	900	85		68	
TR97-M23		Moosehead	August	20947	19659	980	120		104	
TR97-M24		Moosehead	August	20945	19776	1001	120		128	
TR97-CL5		Classic	August	16923	18765	944	62		123	
TR97-CL6		Classic	August	16910	18532	946	68		65	
TR97-CL7		Classic	August	16850	19108	926	70		228.5	
TR97-CL8		Classic	August	16468	19147	860	60		152	
TR97-CL9		Classic	August	16804	19149	920	70		239	
TR97-CL10		Classic	August	17054	18485	954	160		58	
TR97-CL11		Classic	August	17054	18485	953	155		282	
TR97-WBR1		W Big Rock	August	21718	16218	773	10		28	
TR97-WBR2		W Big Rock	August	21694	15954	763	160		38	
TR97-EBR1		E Big Rock	August	21248	17148	795	38		88	
TR97-EBR2		E Big Rock	August	21244	17057	772	42		38	
TR97-EBR3		E Big Rock	August	21413	17066	790	45		62	
TR97-EBR4		E Big Rock	August	21450	17013	781	0		38	Road cut
TR97-WG1		W Grid	August	21900	14640	640	0		24	
TR97-WG2		W Grid	September	21910	15158	723	150		102	
TR97-SC1		S Canadian	September	18925	20675	850	90		62	
TR97-SC2		S Canadian	September	18950	20750	850	90		22	

1997 Year Summary

RC Holes 142
RC Metres 10252.5

Trenches 33
Trenching (m) 2605.5

**1997 Brewery Creek Exploration
Drilling and Trenching Summary; Significant Assays**

Hole ID	Pre Drill	Zone	Grade (gpt)	Width (m)	From (m)	To (m)	Comments
RC97-1678	PBR-5	E Big Rock	1.30	12	0	12	
RC97-1681	PBR-10	E Big Rock	1.33	6	8	14	
RC97-1681	PBR-10	E Big Rock	0.98	10	28	38	
RC97-1682	PNS-1	North Slope	1.40	4	82	86	
RC97-1682	PNS-1	North Slope	2.70	4	96	100	
RC97-1734	PP-1	Pacific	1.30	4	50	54	
RC97-1734	PP-1	Pacific	1.44	4	60	64	
RC97-1735	PP-2	Pacific	1.83	8	56	64	
RC97-1736	PBR-13	E Big Rock	1.14	6	72	78	
RC97-1739	PBR-11	E Big Rock	0.76	6	10	16	
RC97-1769	PNS-7	North Slope	1.07	8	8	16	
RC97-1770	PNS-8	North Slope	2.17	6	28	34	
RC97-1771	PNS-4	North Slope	2.29	4	52	56	
RC97-1772	PNS-6	North Slope	2.87	6	30	36	
RC97-1773	PNS-5	North Slope	1.91	4	26	30	
RC97-1773	PNS-5	North Slope	0.86	6	50	56	
RC97-1774	PNS-9	North Slope	0.66	4	176	180	
RC97-1911	PBO-3	Bohemian	5.72	2	8	10	
RC97-1911	PBO-3	Bohemian	0.96	2	20	22	
RC97-1917	PBO5	Bohemian	1.04	4	24	28	
RC97-1930	PM-71	Moosehead	1.46	2	40	42	
RC97-1931	PM-72	Moosehead	2.47	6	18	24	
RC97-1937	PM-79	Moosehead	0.93	8	16	24	
RC97-1938	PM-80	Moosehead	0.66	10	48	58	
RC97-1941	PM-85	Moosehead	0.98	8	8	16	
RC97-1941	PM-85	Moosehead	0.89	4	46	50	hole ended in mineralization
RC97-1947	PM-87	Moosehead	1.44	6	2	8	
RC97-1947	PM-87	Moosehead	0.79	8	16	24	
RC97-1953	PBR-72	West B. Roc	0.94	4	22	26	
RC97-1961	PM-92	Moosehead	1.72	4	10	14	
RC97-1963	PBo-17	Bohemian	1.01	4	20	24	
RC97-1964	PBo-11	Bohemian	0.83	4	16	20	
RC97-1965	PBo-12	Bohemian	0.71	14	0	14	
RC97-1968	PBo-20	Bohemian	1.22	6	4	10	
RC97-1971	PBo-16	Bohemian	2.00	8	8	16	
RC97-1972	Pbo-19	Bohemian	1.57	8	22	30	
RC97-1973	PL-65	Lucky	1.31	12	32	44	includes 3.2 gpt over 4 metres (40-44 m)
RC97-1974	PL-66	Lucky	1.58	8	46	54	
RC97-1976	PL-64	Lucky	7.78	6	54	60	
RC97-1977	PL-63	Lucky	14.11	10	28	38	
RC97-1978	PL-58	Lucky	8.67	12	36	48	includes 19.08 gpt over 4 metres (36-40m)
RC97-1979	PL-57	Lucky	4.82	16	12	28	includes 15.53 gpt over 2 metres (18-20m).
RC97-1980	PL-56	Lucky	0.93	18	28	46	
RC97-1981	PL-55	Lucky	0.90	4	16	20	
RC97-1981	PL-55	Lucky	1.30	22	26	48	includes 2.32 gpt over 8 metres (40-48m)
RC97-1981	PL-55	Lucky	3.40	2	56	58	
RC97-1983	PL-60	Lucky	2.85	10	56	66	Includes 8.38 gpt over 2 metres (56-58m)
RC97-1984	PL-61	Lucky	1.42	16	0	16	
RC97-1984	PL-61	Lucky	0.57	14	24	38	includes 1.36 gpt over 2 metres (32-34m).
RC97-1985	PL-71	Lucky	7.94	12	2	14	includes 16.22 gpt over 4 metres (4-8m).
RC97-1986	PL-70	Lucky	1.02	2	2	4	
RC97-1986	PL-70	Lucky	1.33	4	14	18	
RC97-1987	PL-69	Lucky	5.21	4	60	64	hole ended in mineralization(fw argillite)
RC97-1988	PL-67	Lucky	0.77	6	14	20	
RC97-1992	PL-75	Lucky	1.64	16	14	30	
RC97-1993	PCL-11	Classic	0.30	52	0	52	includes 1.07 gpt over 6 metres (46-52m)
RC97-1993	PCL-11	Classic	0.36	20	80	100	
RC97-1995	PCL-1	Classic	0.40	34	0	34	
RC97-1996	PCL-2	Classic	0.49	16	78	94	
RC97-1996	PCL-2	Classic	0.88	4	32	36	

**1997 Brewery Creek Exploration
Drilling and Trenching Summary; Significant Assays**

Hole ID	Pre Drill	Zone	Grade (gpt)	Width (m)	From (m)	To (m)	Comments
RC97-1996	PCL-2	Classic	1.39	2	40	42	
RC97-1997	PCL-10	Classic	0.35	42	130	172	
RC97-1998	PCL-5	Classic	0.61	46	56	102	includes 1.44 gpt/2m (64-66m) & 2.28 gpt/2m (76-78m)
RC97-1999	PCL-4	Classic	0.57	40	4	44	ncludes 1.12 gpt/4 metres (18-22m) & 1.66 gpt/2m (42-44m)
RC97-1999	PCL-4	Classic	1.22	20	62	82	includes 4.34 gpt / 4 metres (78-82m)
RC97-2001	PCL-6	Classic	0.37	10	58	68	
RC97-2001	PCL-6	Classic	0.35	8	78	86	
RC97-2002	PCL-8	Classic	0.95	4	68	72	
RC97-2003	PCL-3	Classic	0.77	12	32	44	
RC97-2004	PBR-70	E Big Rock	1.25	4	4	8	
RC97-2004	PBR-70	E Big Rock	1.35	6	30	36	
RC97-2004	PBR-70	E Big Rock	2.04	6	54	60	Hole ended in mineralization
RC97-2005	PBR-71	E Big Rock	2.54	6	4	10	includes 4.3 gpt over 2 metres (6-8m)
RC97-2006	PL-62	Lucky	7.45	12	0	14	includes 12.36 gpt over 6 metres (2-8m)
RC97-2006	PL-62	Lucky	3.00	4	24	28	
RC97-2010	PBo-28	Schooner	1.51	4	22	26	
RC97-2011	PBo-30	Schooner	1.21	4	10	14	
RC97-2018	PBo-25	Schooner	2.26	4	12	16	
RC97-2019	PBo-22	Schooner	0.53	10	30	40	
RC97-2020	PL-82	Lucky	1.97	6	70	76	includes 4.12 gpt over 2 metres (74-76m)
RC97-2021	PL-79	Lucky	2.49	10	34	44	includes 5.02 gpt over 2 metres (36-38m)
RC97-2021	PL-79	Lucky	2.33	8	54	62	includes 4.66 gpt over 2 metres (54-56m)
RC97-2022	PL-80	Lucky	3.11	6	40	46	
RC97-2022	PL-80	Lucky	2.97	14	60	74	includes 4.73 gpt over 8 metres (60-68m)
RC97-2023	PL-81	Lucky	1.60	2	8	10	
RC97-2023	PL-81	Lucky	3.35	12	56	68	includes 7.46 gpt over 2 metres (60-62m)
RC97-2026	PSC-1	S. Canadian	0.52	4	32	36	
RC97-2028	PBR-72	E Big Rock	0.52	6	86	92	
RC97-2029	PBR-73	E Big Rock	1.06	20	18	38	
RC97-2033	PWG-1	West Grid	0.91	4	26	30	
RC97-2034	PWG-2	West Grid	0.57	6	8	14	
RC97-2036	PWG-4	West Grid	0.72	6	48	54	
RC97-2037	PWG-5	West Grid	0.36	4	22	26	
TR97-NS1		North Slope	8.07	1			Vertical panel sample along trench face
TR97-NS1		North Slope	3.58	6	2	8	Surface trench sample
TR97-BO4		Bohemian	5.38	14	36	50	Intensely sheared and oxidized LAQM
TR97-BO5		Bohemian	1.71	14	10	24	Intensely sheared and oxidized LAQM
TR97-BO7		Schooner	0.60	20	12	32	
TR97-M22		Moosehead	2.15	24	6	32	
TR97-M22		Moosehead	2.98	4	80	84	
TR97-BO12		Schooner	1.67	12	14	26	
TR97-BO12		Schooner	1.64	14	54	68	
TR97-WG1		West Grid	1.14	6	16	22	
TR97-M23		Moosehead	4.50	4	75	79	
TR97-CL7		Classic	1.88	5.4	46.6	52	
TR97-CL9		Classic	0.70	20	162	182	
TR97-WBR1		W Big Rock	1.00	16	8	24	
TR97-WBR2		W Big Rock	0.86	4	32	36	
TR97-EBR1		E Big Rock	0.49	6	16	22	
TR97-EBR2		E Big Rock	3.42	12.9	0	12.9	
TR97-EBR4		E Big Rock	2.54	13	4	17	
TR97-SC1		S. Candian	0.84	6	34	40	
TR97-SC2		S. Candian	0.81	2	18	20	

APPENDIX II

1997 DRILL HOLE ASSAY CHECK LISTING

**1997 Brewery Creek Exploration
Drill Hole Assay Check Listing
Appendix 2**

Hole ID	From	To	Au (g/T)	
			Original	Duplicate
RC97-1672	12	14	0.03	0.03
RC97-1673	14	16	0.01	0.01
RC97-1674	16	18	0.04	0.05
RC97-1675	18	20	0.09	0.12
RC97-1676	12	14	0.01	0.01
RC97-1677	14	16	0.04	0.05
RC97-1678	16	18	0.07	0.04
RC97-1679	18	20	0.03	0.02
RC97-1680	12	14	0.06	0.06
RC97-1681	14	16	0.31	0.27
RC97-1683	18	20	0.01	0.01
RC97-1684	12	14	0.01	0.01
RC97-1734	16	18	0.05	0.04
RC97-1736	12	14	0.02	0.02
RC97-1737	14	16	0.04	0.06
RC97-1738	16	18	0.45	0.45
RC97-1739	18	20	0.08	0.07
RC97-1769	8	10	1.08	1.33
RC97-1769	10	12	1.52	1.60
RC97-1769	12	14	0.87	0.93
RC97-1769	14	16	0.82	0.91
RC97-1769	16	18	0.28	0.33
RC97-1770	22	24	0.55	0.51
RC97-1770	26	28	4.10	4.28
RC97-1770	28	30	1.46	1.48
RC97-1770	30	32	0.79	0.81
RC97-1770	32	34	0.33	0.30
RC97-1770	42	44	1.91	2.34
RC97-1771	26	28	1.03	0.50
RC97-1771	28	30	0.41	1.56
RC97-1771	42	44	0.32	0.36
RC97-1771	46	48	0.30	0.36
RC97-1771	50	52	0.65	0.81
RC97-1771	52	54	1.49	1.84
RC97-1771	54	56	6.44	7.72
RC97-1771	56	58	0.59	0.75
RC97-1771	58	60	0.38	0.46
RC97-1772	18	20	0.08	0.09
RC97-1772	30	32	4.96	4.44
RC97-1772	32	34	0.61	0.69
RC97-1772	34	36	3.04	3.12
RC97-1773	18	20	0.43	0.33
RC97-1773	20	22	0.59	0.51
RC97-1773	26	28	3.01	2.82
RC97-1773	28	30	0.81	0.81
RC97-1773	34	36	0.71	0.64
RC97-1773	50	52	0.50	0.47
RC97-1773	52	54	0.80	0.79
RC97-1773	54	56	1.27	1.21
RC97-1774	18	20	0.40	0.49
RC97-1774	50	52	0.41	0.38
RC97-1774	142	144	0.30	0.28
RC97-1774	144	146	0.01	0.02
RC97-1774	172	174	0.05	0.01
RC97-1774	174	176	0.26	0.25

**1997 Brewery Creek Exploration
Drill Hole Assay Check Listing
Appendix 2**

Hole ID	From	To	Au (g/T)	
			Original	Duplicate
RC97-1774	176	178	0.59	0.51
RC97-1774	178	180	0.73	0.66
RC97-1774	180	182	0.42	0.35
RC97-1930	14	16	0.00	0.00
RC97-1931	16	18	0.03	0.03
RC97-1932	18	20	0.00	0.00
RC97-1933	10	12	0.00	0.00
RC97-1934	12	14	0.00	0.00
RC97-1935	14	16	0.00	0.00
RC97-1936	16	18	0.01	0.01
RC97-1937	18	20	2.06	1.95
RC97-1938	10	12	0.02	0.01
RC97-1939	12	14	0.01	0.00
RC97-1940	14	16	0.17	0.15
RC97-1941	16	18	0.16	0.15
RC97-1942	18	20	0.07	0.07
RC97-1943	4.5	6	0.00	0.00
RC97-1943	10	12	0.00	0.00
RC97-1944	2.5	4	0.00	0.00
RC97-1944	12	14	0.00	0.00
RC97-1945	14	16	0.01	0.01
RC97-1946	16	18	0.00	0.00
RC97-1947	2.5	4	0.44	0.00
RC97-1947	18	20	0.39	0.41
RC97-1948	10	12	0.00	0.00
RC97-1949	14	16	0.01	0.01
RC97-1950	16	18	0.00	0.00
RC97-1951	18	20	0.00	0.00
RC97-1952	12	14	0.00	0.00
RC97-1953	14	16	0.00	0.00
RC97-1954	16	18	0.00	0.00
RC97-1955	18	20	0.01	0.00
RC97-1956	12	14	0.01	0.00
RC97-1957	14	16	0.00	0.01
RC97-1958	16	18	0.00	0.01
RC97-1959	18	20	0.03	0.02
RC97-1960	12	14	0.00	0.00
RC97-1961	14	16	0.01	0.00
RC97-1962	16	18	0.00	0.00
RC97-1963	18	20	0.05	0.06
RC97-1964	12	14	0.01	0.01
RC97-1965	14	16	0.11	0.12
RC97-1966	16	18	0.00	0.01
RC97-1967	18	20	0.05	0.05
RC97-1968	12	14	0.01	0.01
RC97-1969	14	16	0.00	0.00
RC97-1970	16	18	0.09	0.12
RC97-1971	18	20	0.34	0.32
RC97-1972	12	14	0.07	0.07
RC97-1973	14	16	0.05	0.04
RC97-1974	16	18	0.10	0.10
RC97-1975	18	20	0.00	0.00
RC97-1976	12	14	0.00	0.00
RC97-1977	14	16	0.06	0.06
RC97-1978	16	18	0.10	0.10

**1997 Brewery Creek Exploration
Drill Hole Assay Check Listing
Appendix 2**

Hole ID	From	To	Au (g/T)	
			Original	Duplicate
RC97-1979	18	20	15.53	14.26
RC97-1980	12	14	0.00	0.00
RC97-1981	14	16	0.21	0.19
RC97-1982	16	18	0.11	0.09
RC97-1983	18	20	0.00	0.00
RC97-1984	12	14	4.94	5.10
RC97-1985	14	16	0.27	0.21
RC97-1986	16	18	1.72	1.68
RC97-1987	18	20	0.02	0.20
RC97-1988	12	14	0.00	0.01
RC97-1989	14	16	0.00	0.00
RC97-1990	16	18	0.00	0.00
RC97-1991	18	20	0.61	0.56
RC97-1992	12	14	0.37	0.38
RC97-1993	14	16	0.14	0.16
RC97-1994	16	18	0.34	0.35
RC97-1995	18	20	0.63	0.61
RC97-1996	12	14	0.23	0.25
RC97-1997	14	16	0.09	0.08
RC97-1998	16	18	0.45	0.47
RC97-1999	18	20	1.19	1.30
RC97-2000	12	14	0.01	0.01
RC97-2001	14	16	0.23	0.20
RC97-2002	16	18	0.00	0.00
RC97-2003	18	20	0.06	1.90
RC97-2004	12	14	0.01	0.02
RC97-2005	14	16	0.03	0.03
RC97-2006	16	18	0.28	0.29
RC97-2007	18	20	0.01	0.02
RC97-2008	12	14	0.03	0.03
RC97-2009	14	16	0.00	0.00
RC97-2010	16	18	0.01	0.00
RC97-2011	18	20	0.02	0.02
RC97-2012	12	14	0.36	0.41
RC97-2014	16	18	0.00	0.00
RC97-2015	18	20	0.00	2.50
RC97-2016	12	14	0.00	2.50
RC97-2017	14	16	0.01	2.50
RC97-2018	16	18	0.11	0.10
RC97-2019	18	20	0.14	0.14
RC97-2020	12	14	0.00	0.00
RC97-2021	14	16	0.00	0.00
RC97-2022	16	18	0.00	0.00
RC97-2023	18	20	0.01	0.01
RC97-2024	12	14	0.00	0.01
RC97-2026	16	18	0.00	0.00
RC97-2027	18	20	0.17	0.16
RC97-2028	12	14	0.01	0.01
RC97-2029	14	16	0.30	0.28
RC97-2030	16	18	0.01	0.00
RC97-2031	18	20	0.08	0.10
RC97-2032	12	14	0.01	0.01
RC97-2033	14	16	0.02	0.02
RC97-2034	16	18	0.03	0.02
RC97-2035	18	20	0.01	0.00

**1997 Brewery Creek Exploration
Drill Hole Assay Check Listing
Appendix 2**

Hole ID	From	To	Au (g/T)	
			Original	Duplicate
RC97-2036	12	14	0.00	0.00
RC97-2037	14	16	0.00	0.00
RC97-2038	16	18	0.02	0.01

APPENDIX III

APPLICABLE EXPENDITURES FOR ASSESSMENT CREDITS

Appendix 3		
Applicable Expenditures for Assessment Credits		
Brewery Creek Expenditures		
Description	Expenditure	
RC Drilling	\$ 489,000.00	
Road Building	\$ 311,838.74	
Rock Samples	\$ 525.00	
Trenching	\$ 43,300.00	
	\$ 844,663.74	Total

APPENDIX IIIa

TOTAL EXPENDITURES

Viceroy Int'l Exploration, Inc
Exploration Expenditures in US\$
For the Period Ending 12/31/1997
Brewery Creek - Inside

12-97-236
Date 01/14/98 12:00pm

Current Period			Description	Year-to-Date		
Actual	Budget	Variance		Actual	Budget	Variance
0	0	0	LAND MANAGEMENT			
0	0	0	LM-Govt Fee & Licenses	66	0	-66
			LM-Consulting Fee & Expense	142	0	-142
<u>0</u>	<u>0</u>	<u>0</u>	Sub-Total	<u>208</u>	<u>0</u>	<u>-208</u>
			ADMINISTRATION			
0	2000	2000	Admin-Salaries & Benefits	0	43000	43000
482	0	-482	Employee Education & Training	1711	0	-1711
0	1000	1000	Admin-Travel & Lodging	5641	10000	4359
30	0	-30	Meals & Entertainment	861	0	-861
122	100	-22	Admin-Postage Courier & Frt	2017	1200	-817
23	300	277	Admin-Telephone	967	3600	2633
0	0	0	Admin-Rent	852	0	-852
0	0	0	Admin-Utilities	56	0	-56
0	225	225	Admin-Off Supplies & Equip Lse	4243	2700	-1543
859	0	-859	Office Equip & Supp-Com Maint	6396	0	-6396
1456	0	-1456	Admin-Depreciation	11807	0	-11807
353	0	-353	Admin-Miscellaneous Expenses	468	0	-468
<u>3326</u>	<u>3625</u>	<u>299</u>	Sub-Total	<u>35020</u>	<u>60500</u>	<u>25480</u>
			FIELD PROGRAM			
27764	2000	-25764	FP-Salaries & Benefits	226886	157000	-69886
617	0	-617	FP-Camp Installation & Ooption	40264	39000	-1264
617	0	-617	FP-Camp Inst & Oper-Fld Meals	4099	0	-4099
1630	0	-1630	FP-Cmp Inst & Oper-Fld Lodging	4796	0	-4796
5779	0	-5779	FP-Transporation-Field Vehicles	19311	20000	689
0	0	0	FP-Transporation-Helicopter	843	0	-843
1189	0	-1189	FP-Transportation - Airfare	21987	0	-21987
-392	0	392	FP-Field Equip & Supp/RC Drill	39538	5000	-34538
0	0	0	FP-Field Equip & Supp/Diamond	2273	10000	7727
0	0	0	FP-Field Equip & Supp/Trench	12292	3500	-8792
0	0	0	FP-Field Equip & Supp/RK Soil	37	5000	4963
2972	0	-2972	FP-Fld Equip & Supp/General	14535	0	-14535
5965	0	-5965	FP-Geology-Consultant Fees	20873	0	-20873
3676	0	-3676	FP-Assay/Geochem RC Drilling	82853	50000	-32853
0	0	0	FP-Assay/Geochem Diamond Drill	1676	50000	48324
0	0	0	FP-Assay/Geochem Trenching	6868	20000	13132
0	0	0	FP-Assay/Geochem RK Soil Gechm	33047	20000	-13047
0	0	0	FP-Geophysical Airbourne-Remte	18133	0	-18133
-12	0	12	FP-Surveying Drillholes	387	15000	14613
0	0	0	FP-Surveying Linecutting	0	15000	15000
0	0	0	FP-Contr Costs-Road & Drill Pd	226856	80000	-146856
19164	0	-19164	FP-Contr Costs RC Drilling	498434	470000	-28434
0	0	0	FP-Contr Costs Diamond Drill	0	350000	350000
0	0	0	FP-Contr Costs Trenching	130981	100000	-30981
1506	0	-1506	FP-Metallurgy	1522	30000	28478
79	0	-79	FP-Misc Cash Expenses	421	0	-421
<u>70554</u>	<u>2000</u>	<u>-68554</u>	Sub-Total	<u>1408910</u>	<u>1439500</u>	<u>30590</u>
			SUB-TOTAL BEFORE MGMT FEES			
73879	5625	-68254	Management Fees	1444138	1500000	55862
7388	560	-6828		144414	150000	5586
<u>81267</u>	<u>6185</u>	<u>-75082</u>		<u>1588552</u>	<u>1650000</u>	<u>61448</u>

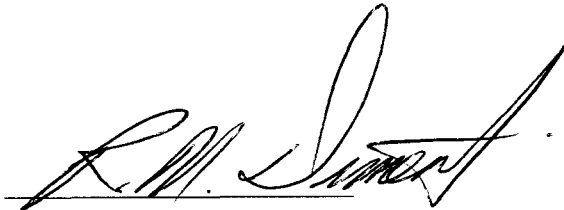
APPENDIX IV

STATEMENT OF QUALIFICATIONS

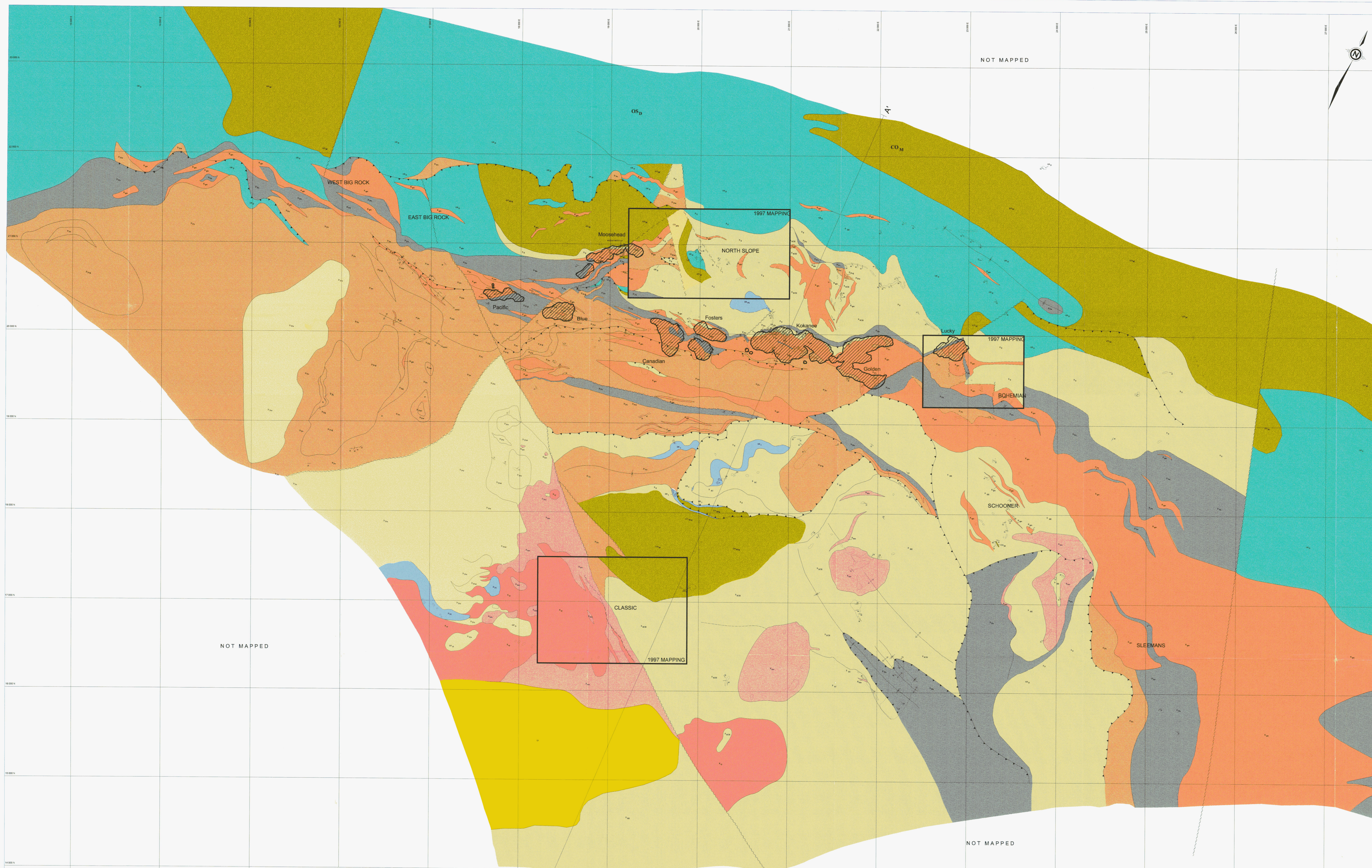
STATEMENT OF QUALIFICATIONS

I, Rick M. Diment, of the City of Whitehorse, Yukon Territory, Canada, do hereby certify that:

1. I have held the position of Senior Exploration Geologist with Viceroy International Exploration since 1996.
2. I graduated from the University of British Columbia with a Bachelor of Science Degree in Geology in 1986.
3. I have been continually active in mineral exploration since 1986.
4. I supervised the exploration program and performed part of the work described in this report.
5. I am a registered Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.

A handwritten signature in black ink, appearing to read "R.M. Diment", written over a horizontal line.

Rick M. Diment, P. Geo.
Senior Geologist
Viceroy International Exploration



LEGEND

QUATERNARY

- Q_u UNCONSOLIDATED NEVER DEPOSITS (Clay benches)

TOMBSTONE FLUTIC (MID-CRETACEOUS)

- T₁ QUARTZ MONZONITE (S₁) (M₁) Coarse quartz veins, megacrysts & feldspar, hornblende + biotite
- T₂ BIOTITE MONZONITE Biotite-rich, coarse grained, contains about 30% biotite. Strongly foliated at base.
- T₃ SYENITE Trachytic texture due to strong alignment of feldspar. Coarse grained, contains hornblende + feldspar only.

EARN GROUP (DEVONIAN - MISSISSIPPIAN)

- E₁ TUFFACEOUS SANDSTONE Fine grained laminated quartz sandstone with abundant (Fibrous) radial dendrites.
- E₂ TUFFACEOUS SHALE Dark grey to black soft, lustrous shale. Small shaly rounded nodules of coarse grained bedding surfaces. Grades up-section into lustrous sandstone described above.
- E₃ DEERIE FLOW CONGLOMERATE Clay associated sheet pebble conglomerates. Pebbles consist of well-sorted (S₁) Late Earn flow agglite, (S₂) Early Earn Group quartzite in a phyllitic matrix.
- E₄ GREYWACKES Dark grey matrix associated phyllites. Thin (2-5 cm) shaly beds of chert, chert and argillite with a poorly sorted siliceous matrix, grades locally into chert pebble conglomerate.
- E₅ SANDSTONE Dark grey massive well-sorted siliceous sandstone, minor chert bedding surfaces.
- E₆ SHALE Black, dark grey fine grained shale (partly) and light to medium grey shale (mostly) siliceous. Commonly interbedded with sandstone and greywacke described above.
- E₇ BLACK GRAPHIC ARGILLITE Black siliceous argillite, chert and graphic chert. Characteristically fractured, laminated and quartz cement in places. Locally banded.
- E₈ BARITE Finely laminated light grey barite up to 15m in thickness. Interbedded with limestone and steel formation siliceous shale.
- E₉ LIMESTONE Ranges from fossiliferous oolitic limestone to black chert limestone. Locally interbedded with laminated barite.

ROAD RIVER GROUP (ORDOVICIAN - SILURIAN)

STEEL FORMATION

- S₁ INTERBEDDED CALCAREOUS SILTSTONE AND CHERT Thinly interbedded sequence of tan weathering siltstone and dark grey chert and argillite. Minor limestone, bedded barite and chert lenses.
- S₂ CALCAREOUS SILTSTONE Tan weathering bedded siltstone with thin bedded calcareous silty shale. Contains discrete beds of massive tan weathering, hard blue-grey, siliceous argillite.
- S₃ ALTERED/HORNIFIED CALCAREOUS SILTSTONE The siltstone is dark and massive. Commonly contains a dark grey rich, lustrous texture which may be the result of post-depositional alteration. From white, the ground siliceous texture ground (beds) become brownish.
- S₄ DOL L₁ FORMATION - CHERT Black chert and minor shale, chert is massive or block bedded, unlike Steel Formation lacks any or silty parts.

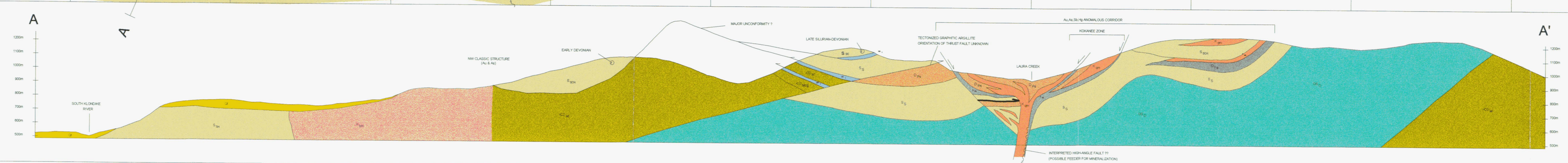
RABBITTLE FORMATION (CAMBRIAN & ORDOVICIAN)

- R₁ CONGLOMERATE Consists of rounded cobbles and angular fragments of basaltic + argillite porphyry & soft and elongated nodules in a siliceous matrix. Appears to have formed at the post-Road River unconformity surface.
- R₂ MINOR CHERT VOLCANICS - ANDESITE, ALGITE-FELDSPAR PORPHYRY, TUFF & VOLCANIC BRECCIA, ARGILLITE, ANDESITE flows, calcareous greenish (up) and volcanic breccia. Thin multi-lobed porphyry.
- R₃ CALCAREOUS PHYLLITE Light grey siliceous phyllite that grades, interbedded on scale calcareous and siliceous layers.

Geological Symbols:

- Trace of steep fault - normal or strike slip movement
- Trace of thrust fault - inferred from stratigraphy
- Fold Axis, with direction of plunge
- Bedding - all bedding on property appears to be upright, with strike and dip.
- Foliation in igneous rock
- Geological contact defined by outcrop, trenches or close spaced ditches.
- Geological contact - inferred
- Fossiliferous limestone or chert
- Proposed Mine Pit

VERTICAL CROSS SECTION
NO VERTICAL EXAGGERATION



093 820 1/3

VICEROY RESOURCE CORPORATION

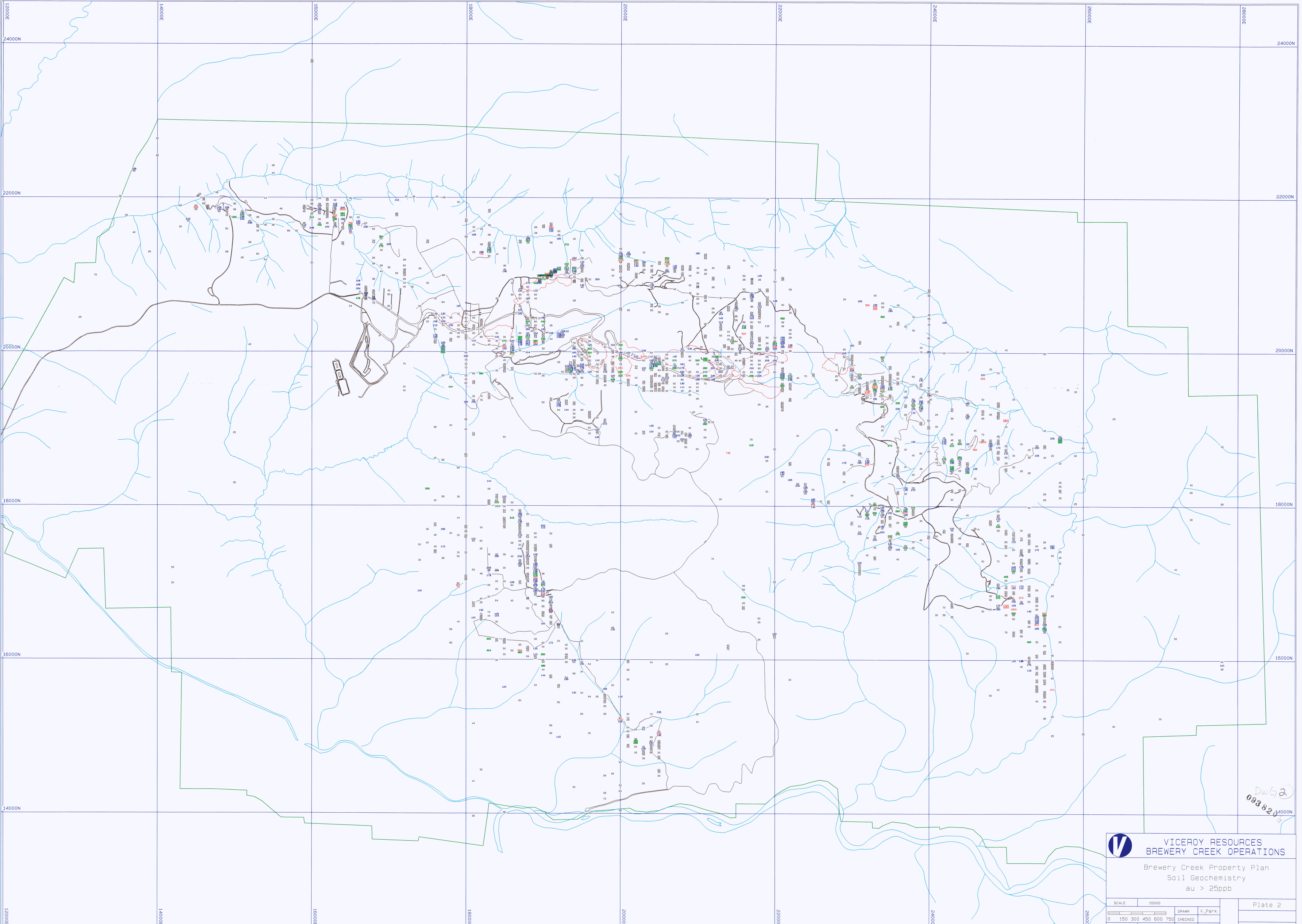
BREWERY CREEK GEOLOGY

0 200 400 600 800 1000 1200 H
METRES

DRAWN BY: [Signature] **DWG SCALE: 1:15 000**

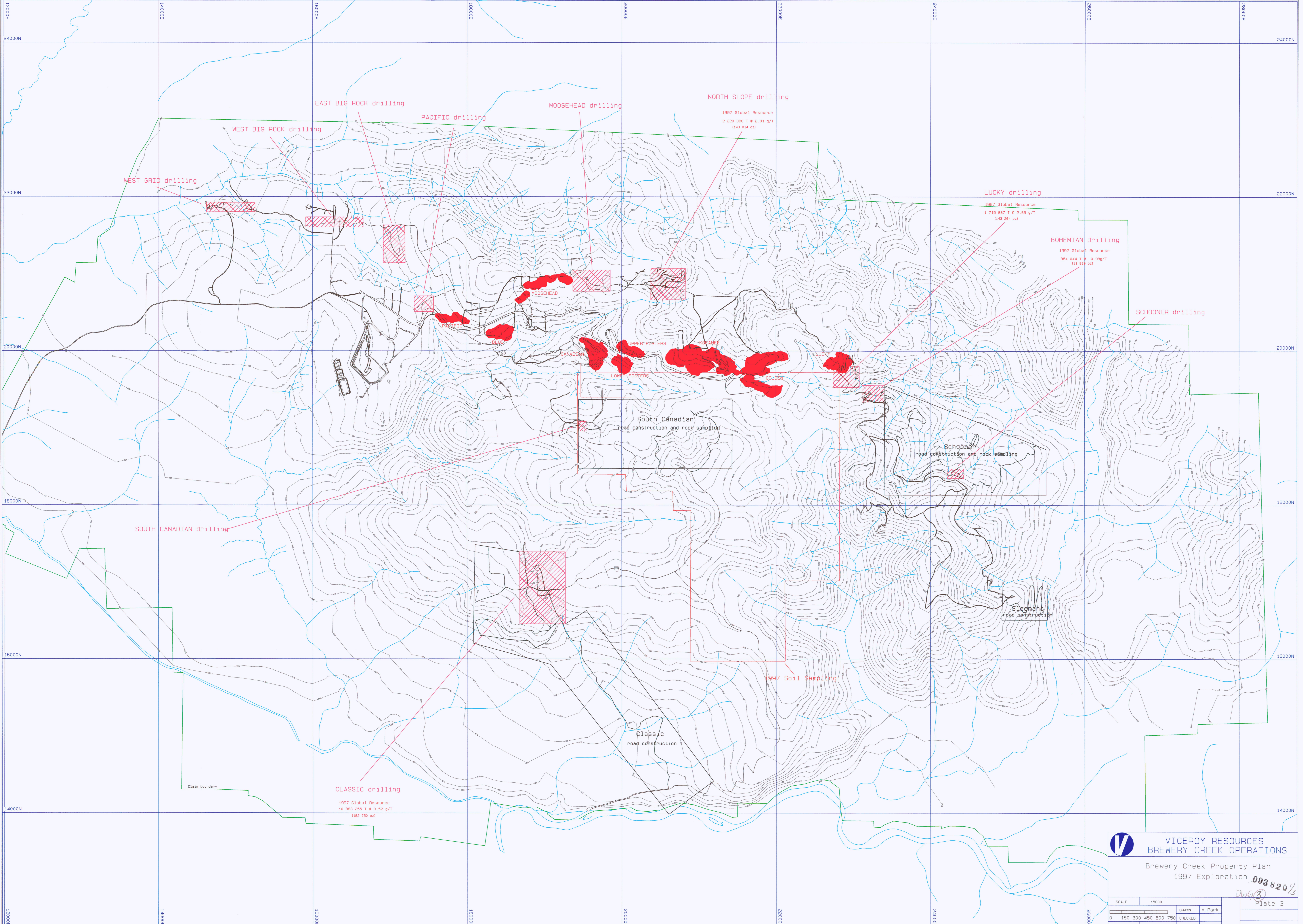
DATE BY: [Signature] **DATE: Feb, 1998**

PLATE NO: **1**



DWG 2
093820

 VICEROY RESOURCES BREWERY CREEK OPERATIONS	
Brewery Creek Property Plan Soil Geochemistry au > 25ppb	
SCALE 1:5000 	DRAWN V_Park CHECKED APPROVED DATE 22-Jan-98
Plate 2	

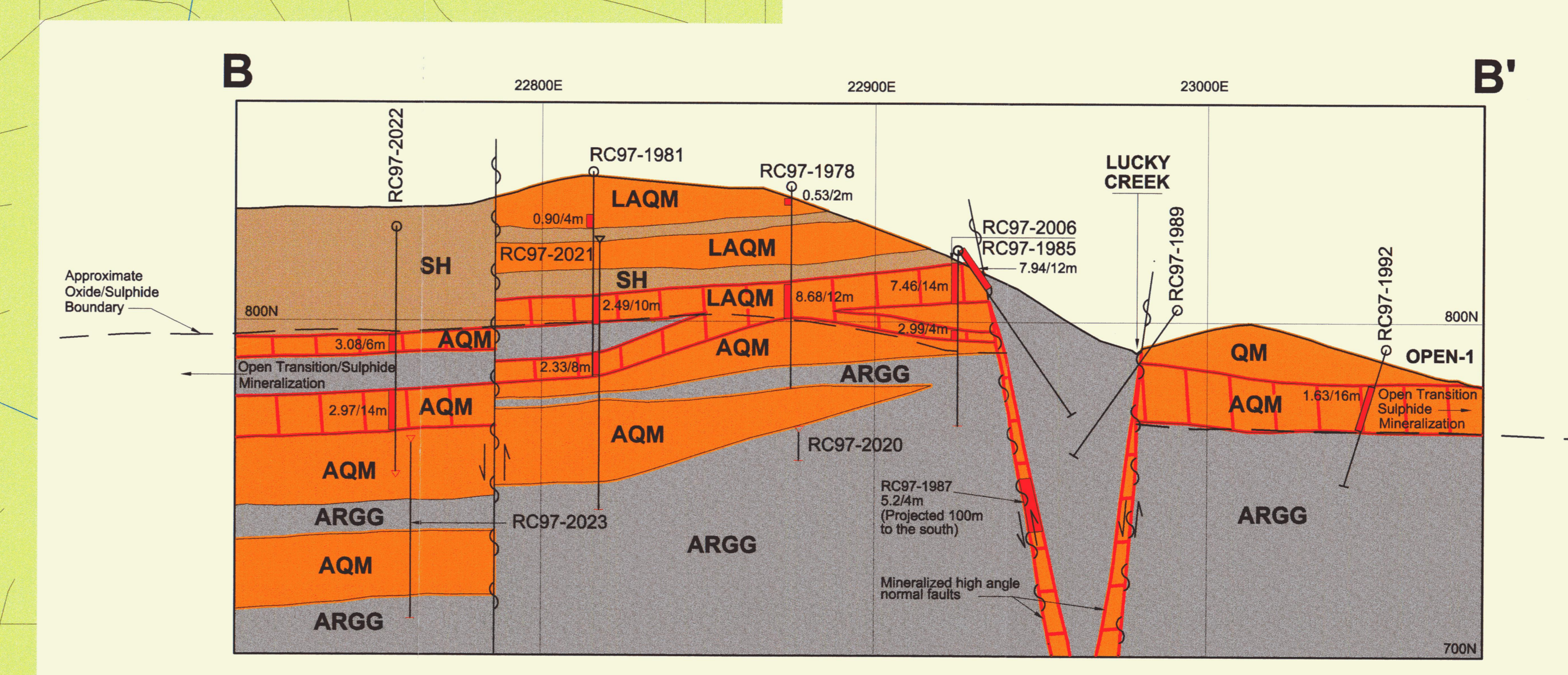
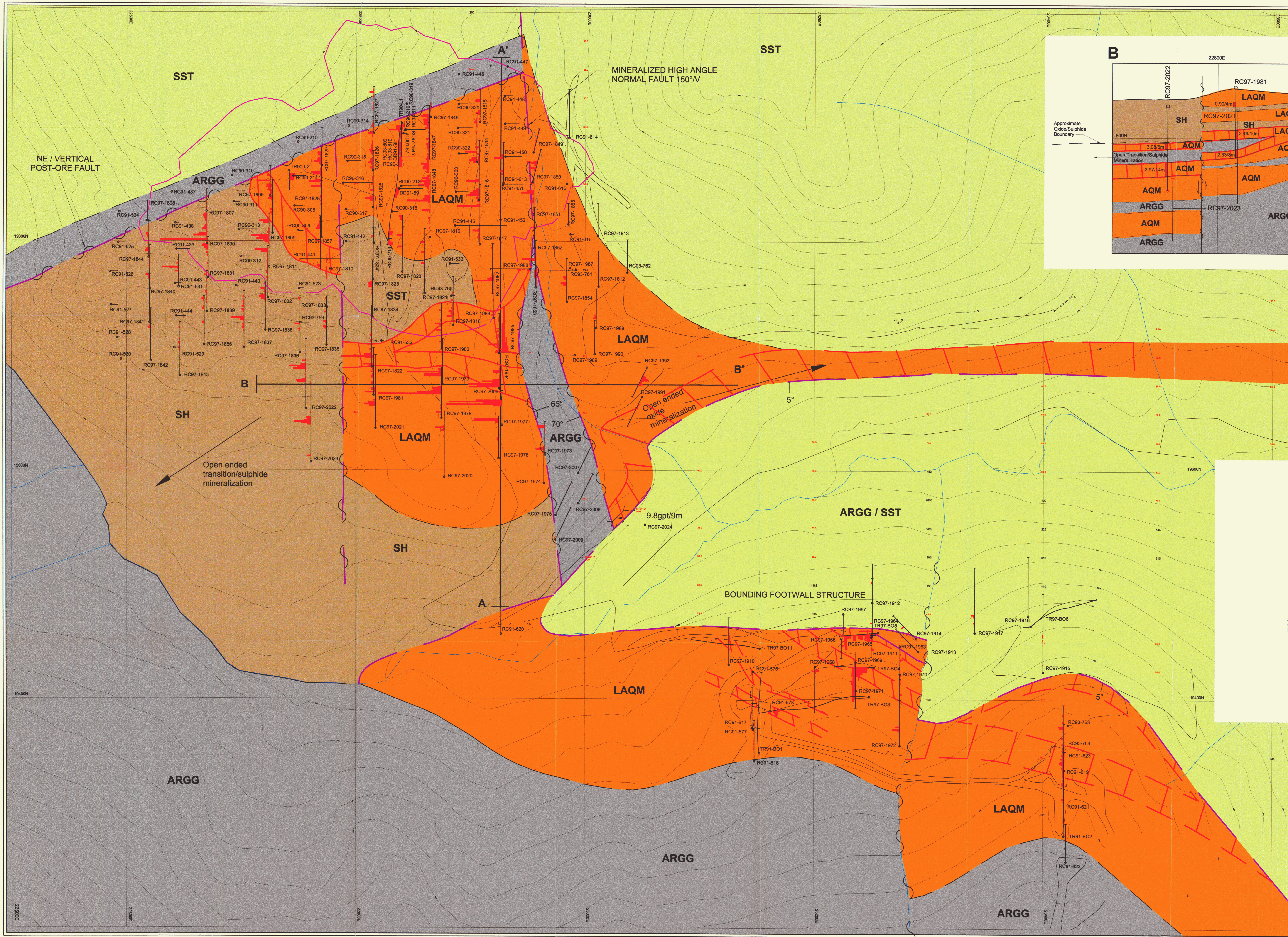


VICEROY RESOURCES
BREWERY CREEK OPERATIONS

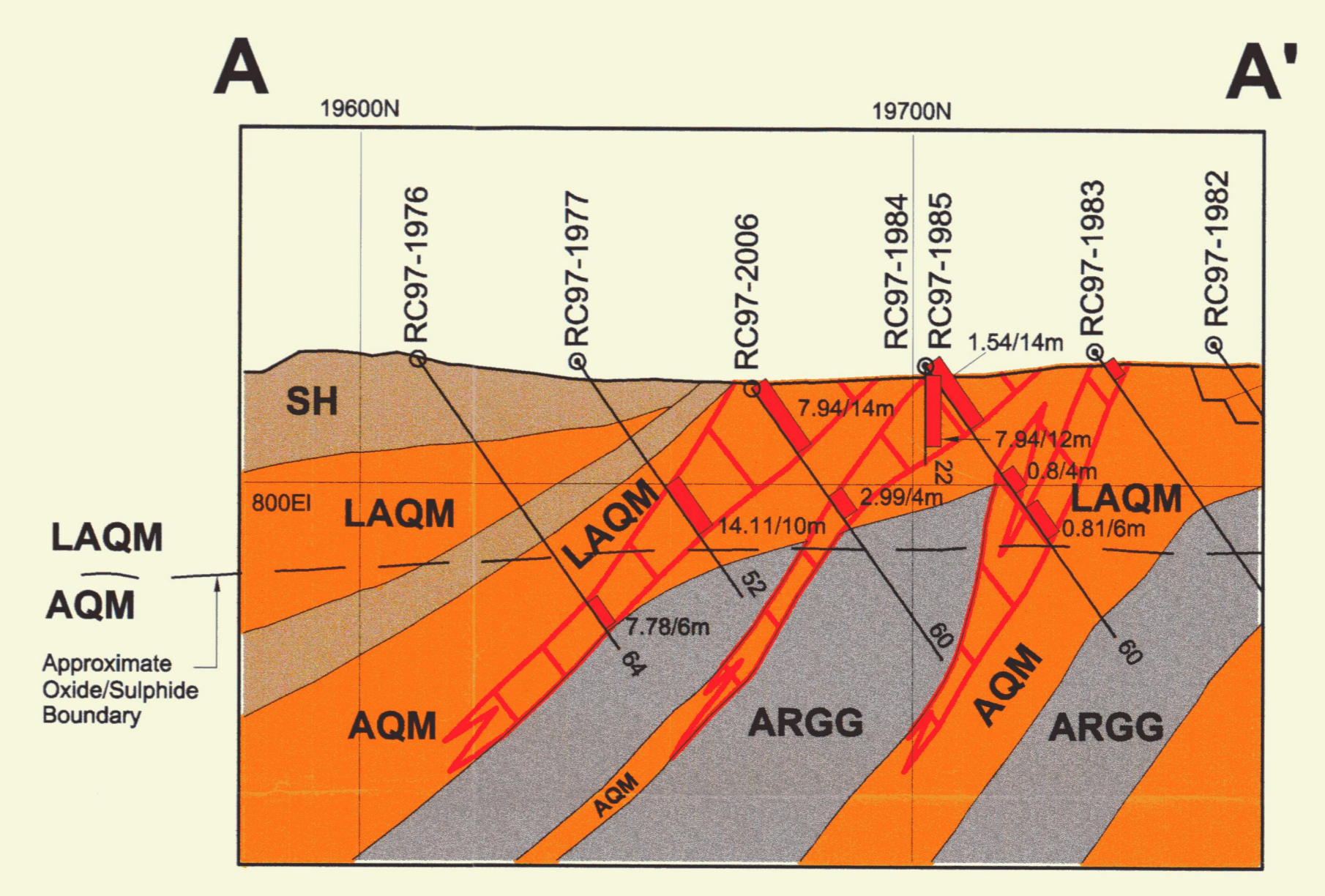
Brewery Creek Property Plan
 1997 Exploration **093 820 1/3**

Plate 3

SCALE	15000	DRAWN	v_Park
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DATE	23-Jan-98	APPROVED	



LUCKY ZONE CROSS SECTION 19675N
(30m PROJECTION) - B - B'
SCALE: 1:1000



LUCKY ZONE CROSS SECTION
22925E A-A' (1:1000)

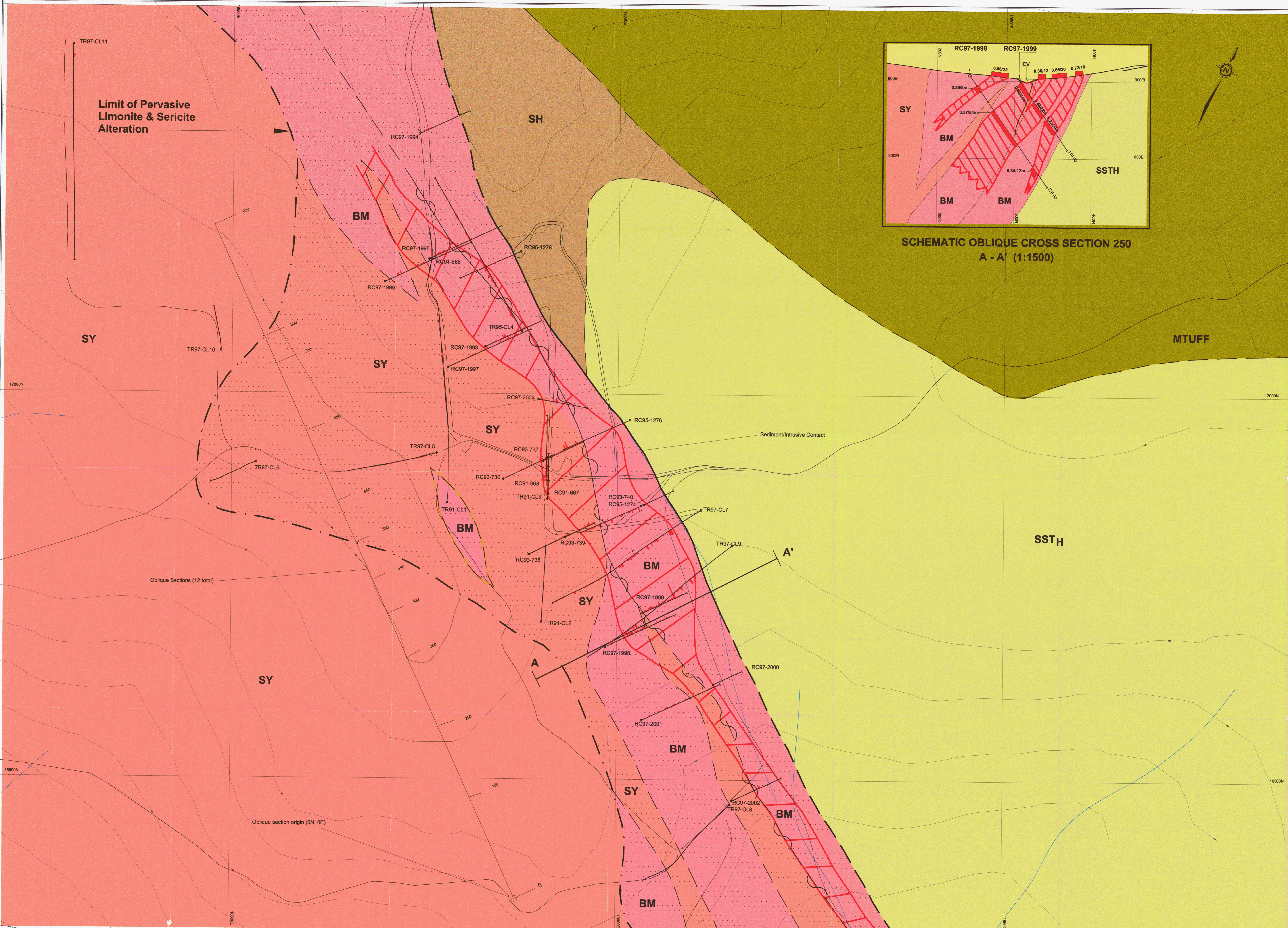
LEGEND

QUATERNARY
 QT UNCONSOLIDATED REVER DEPOSITS (Drain berles)

TOMBSTONE PLUTONIC SUITE (MID-CRETACEOUS)
 QM UNALTERED QUARTZ MONZONITE
 LAQM ALTERED QUARTZ MONZONITE
 AQM PHYSICALLY ALTERED QUARTZ MONZONITE
 ARGG GRANITE
 LAQM: Weathered equivalent of AQM. Oxide zone.

BOHEMIAN MONZONITE (Eogranite, contains about 30% biotite, strongly foliated at base)
 BYENITE: Trondhjemite gneiss due to strong alignment of feldspar. Coarse grained, contains hornblende + feldspar only.
 EARN GROUP (DEVONIAN - MISSISSIPPIAN)
 TSS TUFFACEOUS SANDSTONE: Fine grained laminated quartz sandstone with abundant siliceous mineral concretions.
 TS TUFFACEOUS SHALE: Dark grey to black soft, lustrous shale. Small shaly mineral concretions occur on bedding surfaces. Grades up-section into lustrous sandstone described above.
 CFC DEVONIAN CONGLOMERATE: Chert supported chert pebble conglomerate. Pebbles consist of unconsolidated chert, quartz, and argillite, and Hybrid Group quartzite in a graywacke matrix.
 GW GRAYWACKE: Dark grey, massive, argillite, and argillite with a poorly sorted siliceous matrix, grades locally into chert pebble conglomerate.
 SS SANDSTONE: Dark grey massive well sorted siliceous sandstone, minor chert bedding surfaces.
 SH SHALE: Fine, dark grey, fine grained shale, pin-bedded and argillite horizons. Shaly, locally lustrous. Commonly interbedded with sandstone and graywacke described above.
 ARG ARGG: BLACK GRAPHITIC ARGILLITE: Black siliceous argillite, chert and argillite shales. Characteristically laminated, unbedded and quartz veined in places. Locally baritic.
 BR BARITE: Finely laminated light grey barite up to 15m in thickness. Interbedded with limestone and limestone formation above.
 LST Limestone: Limestone: ranges from thin bedded to massive beds to thick bedded limestone. Locally interbedded with barite beds.
 ROAD RIVER GROUP (ORDOVICIAN - SILURIAN) STEEL FORMATION
 SBT CALCAREOUS SILTSTONE: Tan weathering brownish siltstone with clay laminae. Contains silty shale. Contains distinctive beds of massive tan weathering, hard blue-grey siliceous chert. Commonly contains thin beds of argillite and limestone.
 SATH ALTERED / HORNFIELDED CALCAREOUS SILTSTONE: The siltstone in both Ss and Ss members commonly exhibit a soft, clay rich, lustrous texture which may be the result of weak hornblende or chloritization. Forms white, fine grained siliceous horizons around local rock outcrops.
 CH CHERT: Dark chert and minor shale. Chert is massive or thick bedded, unlike Steel Formation beds, but is silty.
 RABBITKITTLE FORMATION (CAMBRIAN & ORDOVICIAN)
 MSLP MENISCUS SILICIFIED LAMINATED ARGILLITE (MELANOPHANT PORPHYRY, TUFF & VOLCANIC BRECCIA): Argillite, siltstone, shale, calcareous greenish SF and volcanic breccia, thin angle-plagioclase porphyry.
 PH CALcareous PHYLITE: Light grey calcareous phylite, and siliceous layers.
 Trace of steep fault - normal or strike slip movement.
 Trace of thrust fault - inferred from stratigraphy.
 Fold Axis, with direction of plunge.
 Bedding, all bedding on property appears to be upright, with strike slip.
 Folliation in igneous rock.
 Geological contact defined by nature, involves or shows overlap details.
 Geological contact - inferred.
 Fault/lineation or chert.
 Trace of interpreted mineralized zone.
 5.2/4 grams per tonne Au/dilth in matrix.
 Plan trace of cross or long section.
 Histogram of drill hole and trace Au values.
 Drill hole or trench with Au intersection.
 Collum/Lens

093820 1/3
Dwg 4



Limit of Pervasive
Limonite & Sericite
Alteration

**SCHEMATIC OBLIQUE CROSS SECTION 250
A - A' (1:1500)**

LEGEND

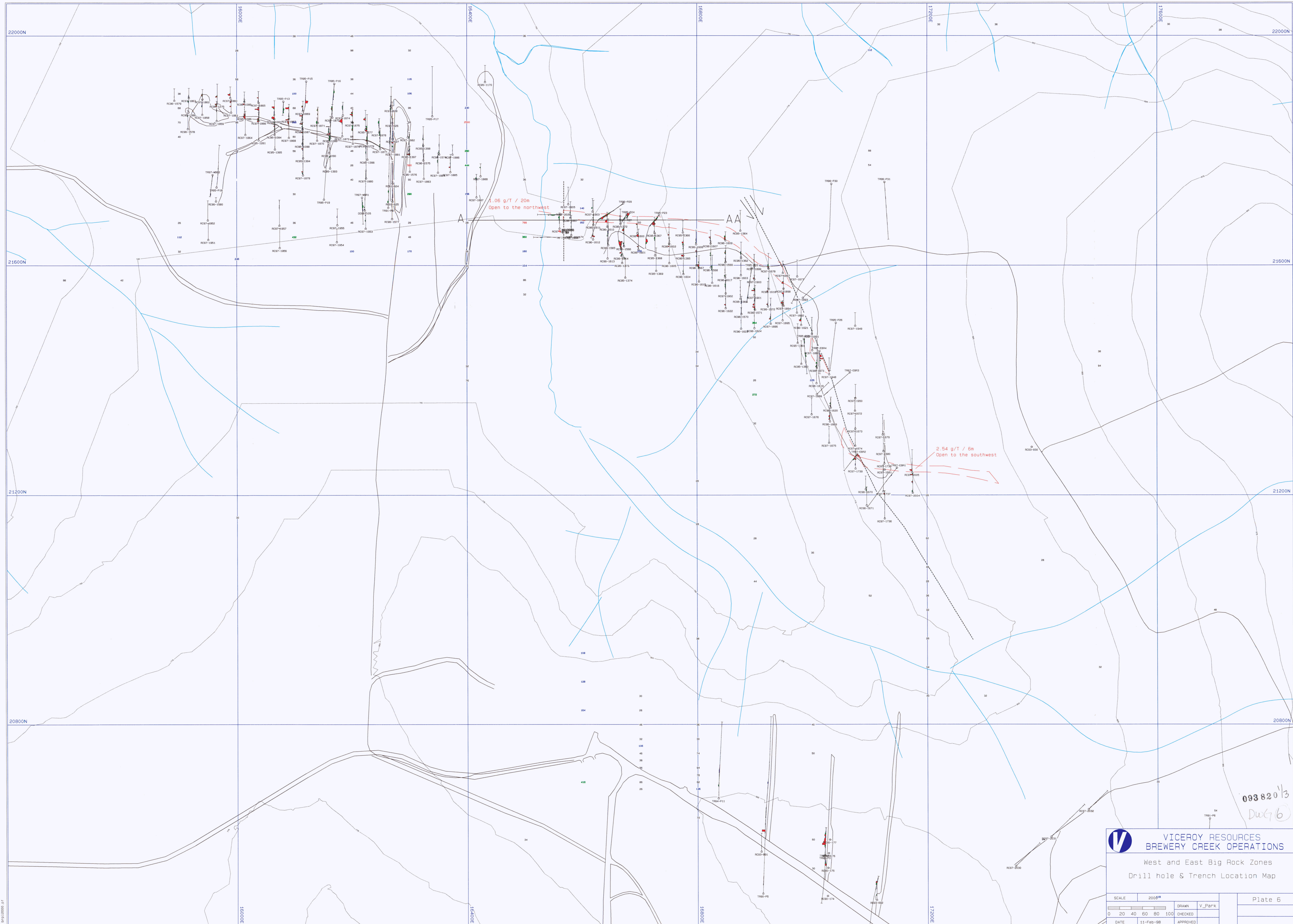
- QUATERNARY**
 - QT UNCONSOLIDATED RIVER DEPOSITS (Gravel benches)
- TOMBSTONE PLUTONIC SUITE (MID-CRETACEOUS)**
 - QK UNALTERED QUARTZ MONZONITE
Contains megacrysts K-feldspars and 5-10% biotite
 - AQM PHYSICALLY ALTERED QUARTZ MONZONITE
Subsidiary zone C - TR amounts of biotite
 - LAQM Weathered equivalent of AQM, Oxide zone
- BIOTITE MONZONITE** Equigranular, contains about 30% biotite. Strongly foliated at base.
- SYENITE** Trachytic texture due to strong alignment of feldspars. Coarse grained, contains hornblende + feldspar only.
- EARN GROUP (DEVONIAN - MISSISSIPPIAN)**
 - TSS TUFFACEOUS SANDSTONE: Fine grained laminated quartz sandstone with abundant tuffaceous material (arkalic)
 - TS TUFFACEOUS SHALE: Dark grey to black soft, tuffaceous shale. Small shaly rounded asymmetric current ripple on bedding surfaces. Grades up-section into tuffaceous sandstone described above.
- DEBRIS FLOW CONGLOMERATE** Clear supported chert pebble conglomerate. Pebbles consist of well rounded Duo Lake chert, minor argillite, luff and Hyland Group fossils in a grey calcareous matrix.
- GREYNAKIC** Dark grey matrix supported greywacke. 1mm - 0.5cm sub-angular clasts of chert, shale and argillite within a poorly sorted siliceous matrix. Argillite grades locally into chert pebble conglomerate.
- SANDSTONE** Dark grey massive well sorted siliceous sandstone, minor crude bedding surfaces.
- SHALE** Plastic, dark grey fine grained shale, pin-stopped and slightly burrowed silty shale, locally tuffaceous. Commonly interbedded with sandstone and greywacke described above.
- BLACK GRAPHITIC ARGILLITE** Black siliceous argillite, chert and graphitic shale. Characteristically fractured, blocky and quartz cemented in places. Locally ferritic.
- BARRE** Finely laminated light grey beds up to 10cm in thickness. Interbedded with limestone and shale. Formation extends laterally.
- LIMESTONE** Ranges from fossiliferous oolitic limestone breccia to fossiliferous limestone. Locally interbedded with laminated beds.
- ROAD RIVER GROUP (ORDOVICIAN - SILURIAN)**
 - STEEL FORMATION**
 - SST CALICAREOUS SILTSTONE: Tan weathering burrowed siltstone with wavy laminations, calcareous silty shale. Contains distinctive beds of massive tan weathering, hard blue-grey, siliceous dolomite. Commonly contains thin interbeds of argillite and chert.
 - SSTH ALTERED / HORNFISSED CALICAREOUS SILTSTONE: In both Ss and Ssh members commonly exhibit a soft, clay rich, tuffaceous texture which may be the result of waste homing or decalcification. Forms white, fine grained siliceous horizons around biotite monzonite intrusives.
 - DLO LK FORMATION - CHERT: Black chert and minor shale; chert is massive or block bedded, unlike Steel Formation beds luff or silty layers.
 - RABBITKITTLE FORMATION (CAMBRIAN & ORDOVICIAN)**
 - MTUFF MENZIE CREEK VOLCANICS - ANDESITE, AUGITE-FELDSPAR PORPHYRY, TUFF & VOLCANIC BRECCIA. Amygdaloidal nodules from calcareous greenish luff and volcanic breccia, fresh augite-plagioclase porphyry.
 - PHY CALICAREOUS PHYLLITE: Light grey calcareous phyllite. Well foliated. Interbedded on scale calcareous and siliceous layers.
- Trace of steep fault - normal or strike slip movement.
- Trace of Thrust fault - inferred from stratigraphy.
- Fold Axis, with direction of plunge.
- Bedding - all bedding on property appears to be upright, with strike and dip.
- Foliation in igneous rock.
- Geological contact defined by outcrop, trenches or close-spaced drillholes.
- Geological contact - inferred.
- Fossiliferous limestone or chert.
- Trace of interpreted mineralized zone.
- 5.2/4 grams per tonne Au/width in metres.
- Plan trace of cross or long section.
- Histogram of drill hole and trench Au views.
- Drill hole or trench with Au intersection.
- Column Losses

**VICEROY RESOURCES
BREWERY CREEK OPERATIONS**

Drill hole and Trenches
Classic Zone Plan View
January 15, 1998

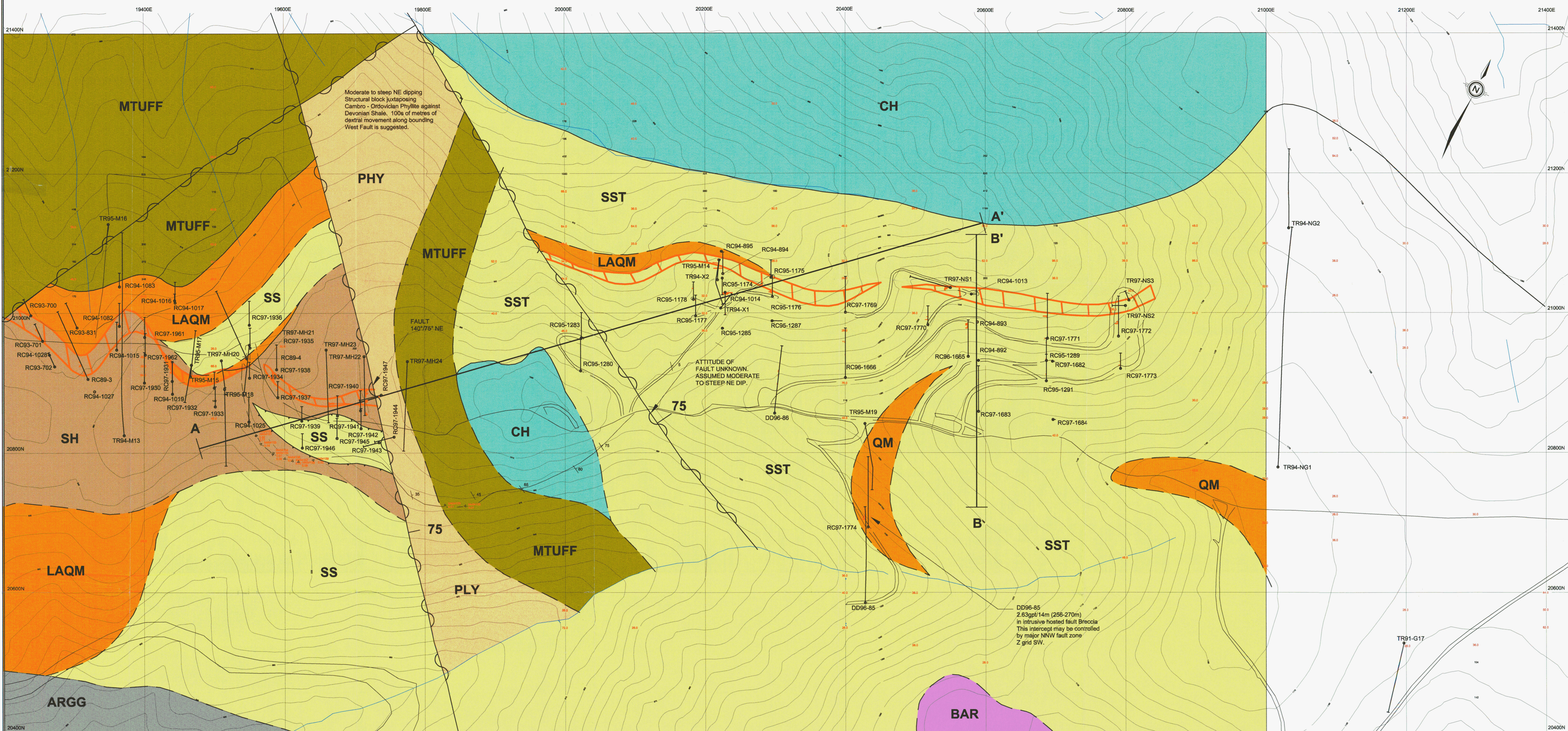
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Ding 5

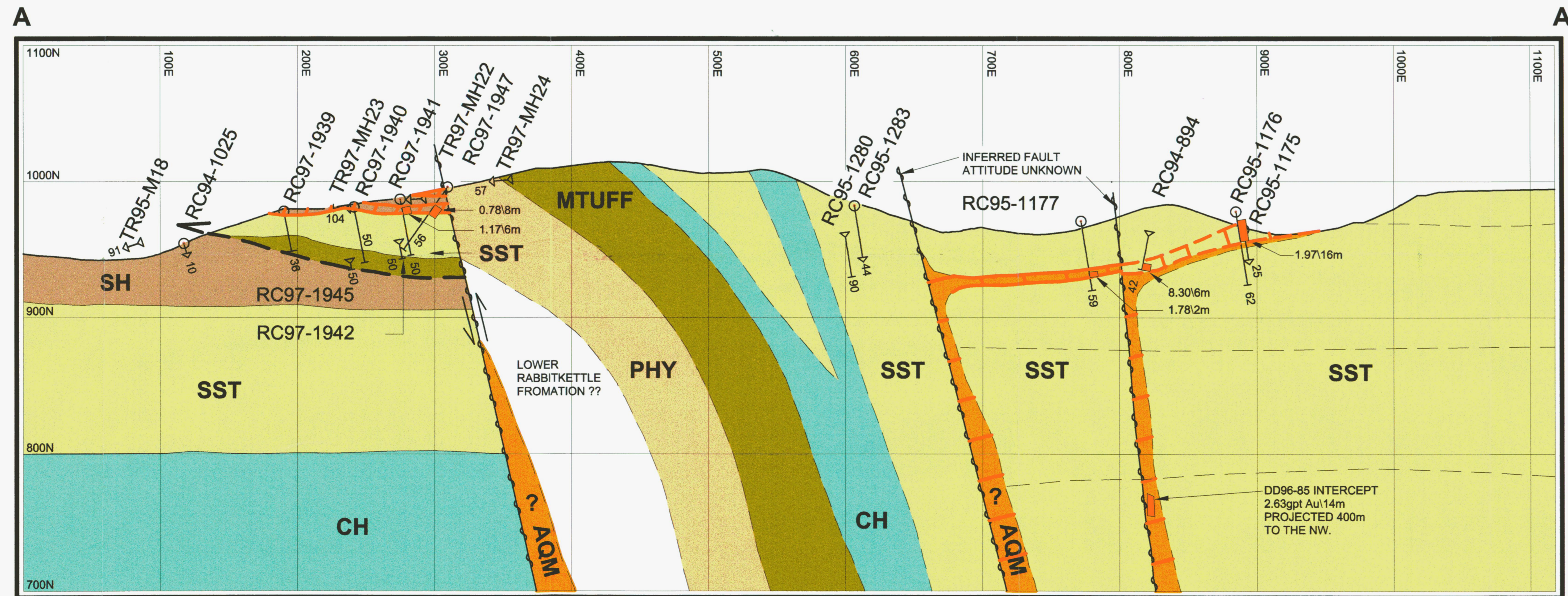


09382013
Dux76

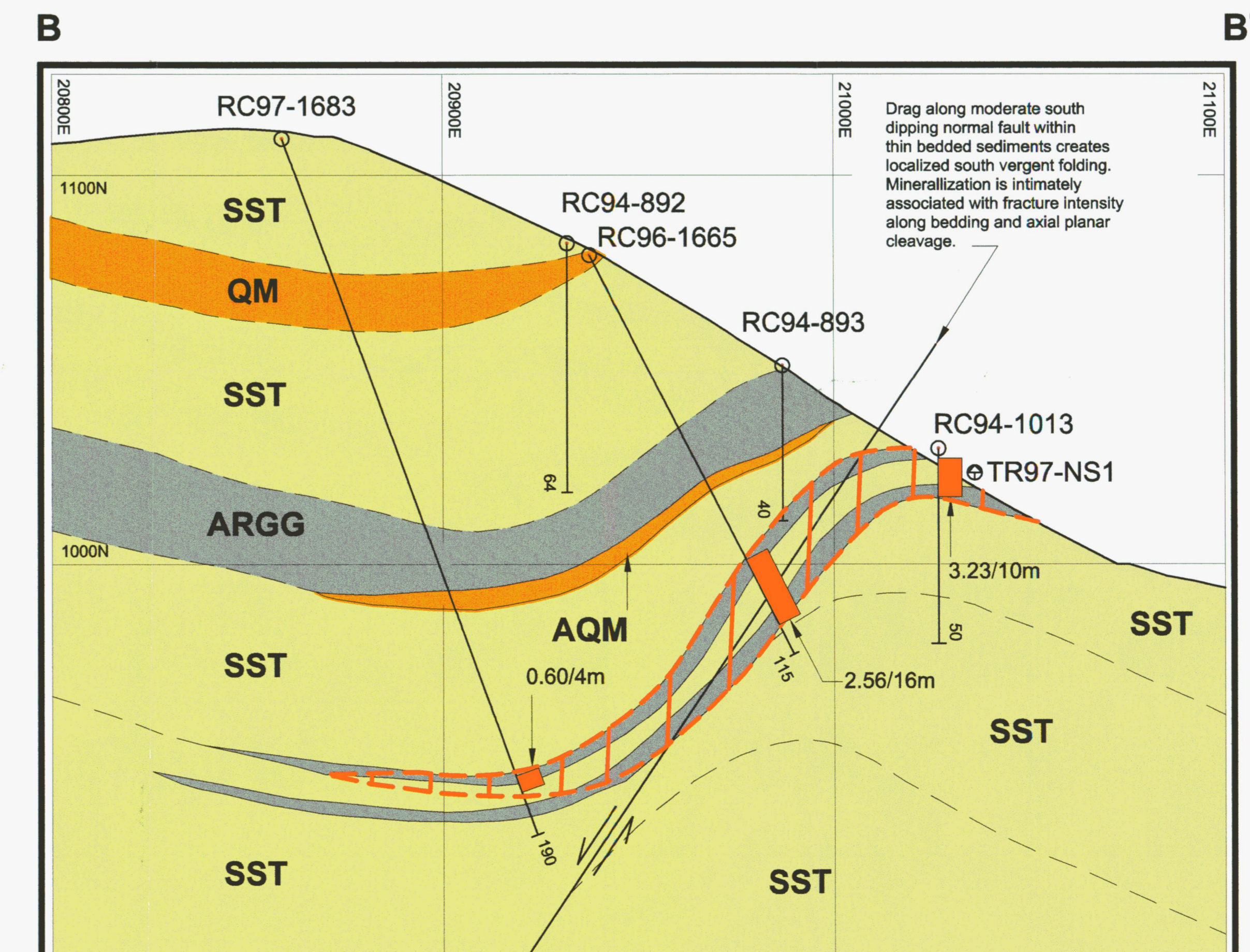
		VICEROY RESOURCES BREWERY CREEK OPERATIONS	
West and East Big Rock Zones Drill hole & Trench Location Map			
SCALE	2000:1	DRAWN	v_Park
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DATE	11-Feb-98	APPROVED	
			Plate 6



- ### LEGEND
- QUATERNARY**
 - QT UNCONSOLIDATED RIVER DEPOSITS (Green beaches)
 - TOMBSTONE PLUTONIC SUITE (MID-CRETACEOUS)**
 - QM UNALTERED QUARTZ MONZONITE. Contains megacrysts. K-feldspar and 5-10% biotite.
 - AQM PHYLLICALLY ALTERED QUARTZ MONZONITE. Sulphide zone. O-TR amounts of biotite.
 - LAQM Weathered equivalent of AQM. Oxide zone.
 - BIOTITE MONZONITE**
 - BM Equisgranine. Contains about 30% biotite. Strongly foliated at base.
 - SYENITE**
 - SY Tectonic feature due to strong alignment of biotite. Coarse grained, contains hornblende + felspar only.
 - EARN GROUP (DEVONIAN - MISSISSIPPIAN)**
 - TSS TUFFACEOUS SANDSTONE. Fine grained laminated quartz sandstone with abundant sulfides (barroisite).
 - TS TUFFACEOUS SHALE. Dark grey to black soft, lustrous shale. Small sharp creased asymmetric current ripple on bedding surface. Grades up-section into tuffaceous sandstone described above.
 - DEBRIS FLOW CONGLOMERATE**
 - CPC Clast supported chert pebble conglomerate. Pebbles consist of well-sorted dark blue chert, minor argillite, tuff and felspar quartzite in a greywacke matrix.
 - GREYWACKE**
 - GW Dark grey matrix supported greywacke. Interbedded with minor argillite, tuff and felspar quartzite locally into chert pebble conglomerate.
 - SANDSTONE**
 - SS Dark grey massive well sorted siliceous sandstone, minor crude bedding surfaces.
 - SHALE**
 - SH Felsic, dark grey fine grained shale; pin-stippled and slightly laminated. Characteristically fractured, bedded and easily weathered to pink. Locally argillite.
 - BLACK GRANITIC ARGILLITE**
 - ARG Black granitic argillite. Black siliceous argillite, chert and graphite shale. Characteristically fractured, bedded and easily weathered to pink. Locally argillite.
 - BARROISITE**
 - BAR Fine grained light grey barroisite up to 15m in thickness. Interbedded with limestone and steel formation beds.
 - LIMESTONE**
 - LRT Limestone. Ranges from fossiliferous oolitic limestone breccia to well bedded limestone. Locally interbedded with limestone beds.
 - ROAD RIVER GROUP (ORDOVICIAN - SILURIAN)**
 - STEEL FORMATION
 - SST CALcareous SILTSTONE. Thin weathering burrowed siltstone with wavy laminations; calcareous silty shale. Contains siliceous beds of massive fine weathering, hard siliceous argillite. Commonly contains thin interbeds of argillite and chert.
 - SSTH ALTERED / HORNEFOLDED CALcareous SILTSTONE. In both S and SW members commonly well sorted, clay rich, lustrous texture which may be the result of weak horizontal or desiccation. Forms white, fine grained siliceous horstles around biotite monzonite intrusives.
 - CH DUO LK FORMATION - CHERT. Black chert and minor shale; chert is massive or block bedded; unlike Steel Formation looks lumpy or silty layers.
 - RABBITKETTLE FORMATION (CAMBRIAN & ORDOVICIAN)
 - MTUFF MENZIE CREEK VOLCANICS - ANDERITE, AJOUITE, FELDSPAR PORPHYRY, TUFF & VOLCANIC BRECCIA. Arranged in anastomosing flow, calcareous granitic tuff and volcanic breccia, thin argillite-conglomerate country.
 - PHY CALcareous PHYLITE. Light grey calcareous phyllite. Well bedded, interbedded on scale calcareous and siliceous layers.
 - Structural Features**
 - Trace of steep fault - normal or strike slip movement.
 - Trace of thrust fault - inferred from stratigraphy.
 - Fold Axis, with direction of plunge.
 - Bedding - all bedding on property appears to be upright, with strike and dip.
 - Foliation in igneous rock.
 - Geological contact defined by outcrop, benches or close-spaced drillholes.
 - Geological contact - inferred.
 - Fossiliferous limestone or chert.
 - Trace of interpreted mineralized zone.



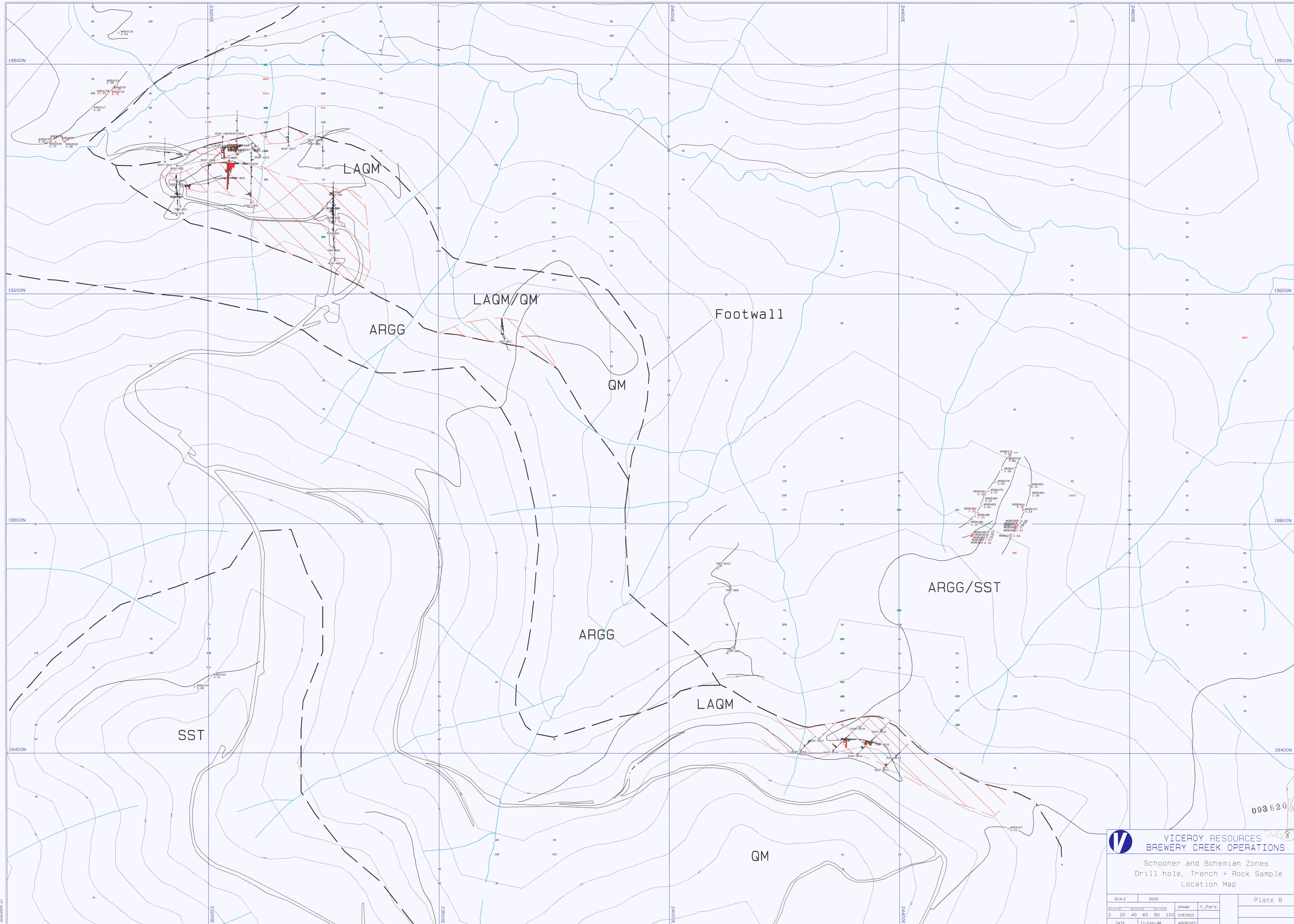
**MOOSEHEAD CROSS SECTION
OBLIQUE SECTION (LOOKING NW)
A - A' (1:2000)**



**NORTH SLOPE CROSS SECTION
20600E - B-B'' (1:1000)**

- 5.2/4 grams per tonne Au/100t in metres.
- Plan trace of cross or long section.
- Histogram of drill hole and trench Au values.
- Drill hole or trench with Au intersection.
- Collum/Loss

SCALE	2000	DRAWN	N.T.
0 20 40 60 80 100		DATE	23-Jan-88
		CHECKED	
		APPROVED	
DATE			23-Jan-88
SCALE			2000
DRAWN			N.T.
CHECKED			
APPROVED			
DATE			23-Jan-88
SCALE			2000
DRAWN			N.T.
CHECKED			
APPROVED			
DATE			23-Jan-88
SCALE			2000
DRAWN			N.T.
CHECKED			
APPROVED			
DATE			23-Jan-88



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VICEROY RESOURCES
 BREWERY CREEK OPERATIONS

Schooner and Bohemian Zones
 Drill hole, Trench + Rock Sample
 Location Map

SCALE	2000	DRAWN	v_Park	Plate B
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DATE	11-Feb-98	APPROVED		



093 820 1/3
Dwg 9
21200N

V VICEROY RESOURCES
BREWERY CREEK OPERATIONS
West Grid & West Big Rock Zones
Drill hole & Trench Location Map

SCALE	2000	DRAWN	v_Park	Plate 9
0 20 40 60 80 100	CHECKED			
DATE	13-Feb-98	APPROVED		

093 820 2/3

BREWERY CREEK PROJECT
1997 GEOLOGICAL, GEOCHEMICAL,
TRENCHING AND DRILLING REPORT
ON THE BDM, EEL, FLEE, ELE AND LEE CLAIMS
VOLUME II - ASSAY CERTIFICATES

Dawson Mining District
N.T.S. 115 O/16 and 116 B/1

Latitude: 64°02'N
Longitude: 138°15'W

Owner: VLB Resource Corporation
Date of work: March to November 1997

Author: Rick Diment, P. Geologist, P. Geophysicist
February 10, 1998



TRENCHES



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

VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Page : 1
Total F : 1
Certificate Date: 25-JUL-97
Invoice No. : 19732942
P.O. Number :
Account : LDS

Project :
Comments: ATTN:RICK DIMENT

CERTIFICATE OF ANALYSIS

A9732942

SAMPLE	PREP CODE	Au ppb FA+AA										
TR97-B3-18-20	217 --	510										
TR97-B3-48-50C	217 --	605										
TR97-B3-80-82A	217 --	775										
TR97-B3-82-84B	217 --	2180										
TR97-B3-84-86B	217 --	985										
TR97-B3-88-90	217 --	985										
TR97-B3-8-10	217 --	1600										
TR97-B3-16-18	217 --	660										
TR97-B3-18-20	217 --	725										
TR97-B3-22-24	217 --	1180										
TR97-B3-24-26	217 --	545										
TR97-B3-26-28	217 --	530										
TR97-B3-28-30	217 --	680										
TR97-B3-30-32	217 --	685										
TR97-B3-32-34	217 --	590										
TR97-B3-34-36	217 --	560										

CERTIFICATION: Rick Vank



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

VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page : 1-A
 Total P : 2
 Certificate Date: 08-JUL-97
 Invoice No. : 19729923
 P.O. Number :
 Account : LDS

Project :
 Comments: ATTN: RON MACKENIE

CERTIFICATE OF ANALYSIS A9729923

SAMPLE	PREP CODE		Au g/t	Au FA	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA	g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
TR97-B03 A	268	229	0.100	-----	1.2	0.66	100	920	< 0.5	< 2	0.04	< 0.5	< 1	54	4	0.96	< 10	< 1	0.27	30	0.08
TR97-B03 B	268	229	0.085	-----	2.2	1.79	346	430	1.5	< 2	0.43	32.0	23	44	54	3.70	< 10	4	0.17	40	0.21
TR97-B03 C	268	229	0.120	-----	4.4	1.04	636	570	1.0	< 2	0.39	35.5	27	47	27	4.41	< 10	4	0.15	50	0.07
TR97-B03 D	268	229	0.110	-----	5.6	1.02	2310	320	0.5	< 2	0.15	>100.0	11	44	67	6.73	< 10	5	0.15	30	0.06
TR97-B03 E	268	229	0.040	-----	3.2	0.89	660	880	0.5	< 2	0.08	37.5	18	41	21	4.19	< 10	4	0.13	30	0.04
TR97-B03 F	268	229	0.045	-----	6.6	0.88	554	880	0.5	< 2	0.03	27.0	18	41	32	3.83	< 10	6	0.12	20	0.05
TR97-B03 G	268	229	0.190	-----	>100.0	0.59	1250	70	< 0.5	< 2	0.03	46.0	< 1	39	57	2.82	< 10	28	0.10	10	0.05
TR97-B04 00-02	268	--	0.065	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 02-04	268	--	0.025	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 04-06	268	--	0.025	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 06-08	268	--	0.030	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 08-10A	268	--	0.110	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 08-10B	268	--	1.420	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 08-10C	268	--	0.150	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 10-12	268	--	0.495	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 12-14	268	--	0.305	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 14-16	268	--	0.545	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 16-18A	268	--	0.060	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 16-18B	268	--	0.100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 18-20	268	--	0.045	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 20-22	268	--	0.040	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 22-24	268	--	0.030	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 24-25	268	--	0.265	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 25-26	268	--	0.190	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 26-27	268	--	0.065	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 27-28	268	--	0.085	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 28-30	268	--	0.110	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 30-32	268	--	0.180	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 32-34	268	--	0.095	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 34-36	268	--	0.065	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 36-38	268	--	1.515	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 38-40	268	--	>12.00	15.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 40-41	268	--	4.24	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 41-42	268	--	1.120	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 42-44	268	--	>12.00	13.03	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 44-46	268	--	4.60	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 00-02	268	--	0.260	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 02-04	268	--	1.120	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 04-06	268	--	0.620	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 06-08	268	--	0.080	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Hart Buchler



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

VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RON MACKENIE

Page : 1-B
Total P : 2
Certificate No: 08-JUL-97
Invoice No. : 19729923
P.O. Number :
Account : LDS

CERTIFICATE OF ANALYSIS

A9729923

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	N	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
TR97-B03 A	268	229	70	1 < 0.01		5	420	76	24	1	122 < 0.01	< 10	< 10	< 10	16	< 10	20
TR97-B03 B	268	229	1045	3 < 0.01		118	1260	356	94	13	40 < 0.01	< 10	< 10	< 10	76	< 10	1555
TR97-B03 C	268	229	1765	1 < 0.01		76	1140	1100	176	9	48 < 0.01	< 10	< 10	< 10	51	< 10	2070
TR97-B03 D	268	229	310	3 < 0.01		57	1260	1220	222	11	50 < 0.01	< 10	< 10	< 10	101	< 10	2190
TR97-B03 E	268	229	2220	1 < 0.01		34	410	1250	94	9	89 < 0.01	< 10	< 10	< 10	60	< 10	2160
TR97-B03 F	268	229	3190	1 < 0.01		37	390	2170	102	7	68 < 0.01	< 10	< 10	< 10	53	< 10	2250
TR97-B03 G	268	229	130	1 < 0.01		13	330	>10000	2210	2	100 < 0.01	< 10	< 10	< 10	35	< 10	342
TR97-B04 00-02	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 02-04	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 04-06	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 06-08	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 08-10A	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 08-10B	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 08-10C	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 10-12	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 12-14	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 14-16	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 16-18A	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 16-18B	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 18-20	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 20-22	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 22-24	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 24-25	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 25-26	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 26-27	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 27-28	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 28-30	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 30-32	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 32-34	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 34-36	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 36-38	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 38-40	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 40-41	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 41-42	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 42-44	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 44-46	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 00-02	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 02-04	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 04-06	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 06-08	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Page : 2-A
Total P : 2
Certificate Date: 08-JUL-97
Invoice No. : 19729923
P.O. Number :
Account : LDS

Project :
Comments: ATTN: RON MACKENIE

CERTIFICATE OF ANALYSIS

A9729923

SAMPLE	PREP CODE	Au g/t FA+AA	Au FA g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
TR97-B05 08-10	268 --	0.770	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 10-12	268 --	0.805	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 12-14	268 --	1.700	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 14-16	268 --	2.92	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION:

Heidi Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Page 1 : 2-B
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CERTIFICATE OF ANALYSIS A9729923

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
TR97-B05 08-10	268 --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
TR97-B05 10-12	268 --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
TR97-B05 12-14	268 --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
TR97-B05 14-16	268 --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	

CERTIFICATION: *Ron Mackenie*

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES TR 97 NS 1DATE MAY 23 17

	SAMPLE #	Au g/t
1	0-2	0.38
2	2-4	1.44
3	4-6	3.55
4	6-8	5.76
5	8-9.5	0.07
6	9.5-10	0.63
7	10-12	0.16
8	12-14	0.18
9	14-16	0.08
10	16-18	0.24
11	18-20	0.06
12	20-22	0.06
13	22-24	0.24
14	24-26	0.08
15	26-28	0.11
16	28-30	0.07
17	30-32	0.09
18	32-34	0.10
19	34-36	0.07
20	36-38	0.12
21	38-40	0.07
22	40-42	<0.02

	SAMPLE #	Au g/t
23	42-44	<0.02
24	44-46	<0.02
25	46-48	0.02
26	48-50	<0.02
27	50-52	<0.02
28	52-54	<0.02
29	54-56	<0.02
30	56-58	<0.02
31	58-60	<0.02
32		
33	19A	0.34
34	19B	3.91
35	19C	0.78
36	19D	0.04
37	20A	1.94
38	20B	5.05
39	21A	1.56
40	21B	0.07
41	24A	0.19
42	24B	<0.02
43	28A	8.07
44	28B	0.5

SUPERVISOR 

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES TR 97 ME-20DATE JUNE 7 1977

	SAMPLE #	Au g/t
1	^{ME-20} TR 97 0-2	<0.02
2	2-4	0.02
3	4-6	<0.02
4	6-8A	0.05
5	6-8B	0.02
6	8-10A	0.05
7	8-10B	0.05
8	8-10C	0.05
9	10-12	0.12
10	12-14A	0.06
11	12-14B	1.02
12	14-16A	0.02
13	14-16B	0.08
14	16-18	0.05
15		
16	20-22	0.49
17	22-24	2.32
18	24-26A	2.60
19	24-26B	1.43
20	26-28	0.78
21	28-30	0.03
22	30-32	0.03

	SAMPLE #	Au g/t
23	32-34	<0.02
24	34-36	<0.02
25	36-39	0.02
26		
27		
28		
29		
30		
31	18A	0.04
32	18B	0.09
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

SUPERVISOR



SAMPLE SERIES TR 97 MH 21

DATE JULY 21/97

	SAMPLE #	Au g/t
1	MH 21 0-2	0.08
2	2-4	0.11
3	4-6	0.08
4	6-8	0.15
5	8-10	0.08
6	10-12	0.28
7	12-14	0.21
8	14-16	0.10
9	16-18	0.05
10	18-20	0.02
11	20-22	0.05
12	22-24	0.02
13	24-26	0.11
14	26-28	0.03
15	28-30	0.03
16	30-32	0.02
17	32-34	0.75
18	34-36	0.03
19	36-38	0.04
20	38-40	0.04
21	40-42	0.03
22	42-44	<0.02

	SAMPLE #	Au g/t
23	44-46	<0.02
24	46-48	0.07
25	48-50	<0.02
26	50-52	0.04
27	52-54	0.04
28	54-56	0.02
29	56-58	<0.02
30	58-60	<0.02
31	60-62	0.03
32	62-64	0.05
33	64-66	0.11
34	66-68	0.12
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

SUPERVISOR

FINAL ASSAY REPORT SHEET

SAMPLE SERIES TK 47 MH. 12

DATE / /

SAMPLE #	Au g/t
2-3	0.22
3-4	< 0.02
4-6	< 0.02
6-8	0.02
8-10	0.05
10-12	0.04
12-14	< 0.02
14-16	0.02
16-18	0.02
18-20	< 0.02
20-22	0.02
22-24	< 0.02
24-26	0.11
26-28	< 0.02
28-30	< 0.02
30-32	< 0.02
32-34	0.04
34-36	0.03
36-38	< 0.02
38-40	0.02
40-42	0.04
42-44	< 0.02

SAMPLE #	Au g/t	
23	44A	0.02
24	44-46	0.03
25	46-48	0.06
28	48-50	3.66
27	50A	0.06
28	50-52	1.99
29	52-54	4.46
30	54-56	2.31
31	56-58	2.0
32	58-60	0.19
33	60-62	0.61
34	62-64	4.74
35	64-66	3.52
38	66-68	1.10
37	68-70	0.41
38	70-72	0.83
39	72-73	0.06
40	73-74	0.07
41	74-76	0.05
42	76-78	0.02
43	78-80	0.03
44		

2.15g/t
/ 240

SUPERVISOR 

FINAL ASSAY REPORT SHEET

SAMPLE SERIES TR 97 MH 22

DATE JULY 23/97

	SAMPLE #	Au g/t
1	MH 22	
2	80-82A	.15
3	80-82B	2.21
4	82-84	3.74
5	EOT	
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

	SAMPLE #	Au g/t
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

2.98 9/4

SUPERVISOR *[Signature]*

SAMPLE SERIES TR 97 M 23

DATE AUG 6 1977

	SAMPLE #	Au g/t
1	M23 76-78	8.71
2	78-80	1.42
3	80-82	0.21
4	82-84	0.12
5	84-86	0.04
6	86-88	0.02
7	88-90	0.02
8	90-92	<0.02
9	92-94	0.04
10	94-96	0.08
11	96-98	0.09
12	98-100	0.04
13	100-102	0.04
14	102-104	0.04
15	EOT	
16		
17		
18		
19		
20		
21		
22		

	SAMPLE #	Au g/t
23		
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CURTIN

BEST ATTAINABLE
IMAGE

VICEROY BREWERY GREEN MINE
FINAL ASSAY REPORT SHEET

C7E

SAMPLE SERIES TR97 M23

DATE Aug 10/97

	SAMPLE #	Avg
1	TR97 M23 62.7-64	0.14
2	64-65	0.04
3	65-66	0.07
4	68-70	0.02
5	70-72	0.05
6	74-75	0.11
7	1.5 75-76.5	2.24
8	0.4 76.8-77.2	25.71
9	1.5 77.7-79	2.90
10	79-79.2	0.13
11	79.2-80.7	0.22
12	81B	0.23
13	81-82	0.09
14	82-82.5	0.84
15	86-86.2	0.05
16		
17		
18		
19		
20		
21		
22		

4.50 g/E / 4m

	SAMPLE #	Avg
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SUPERVISOR

C7E

SAMPLE SERIES TR 97 M 23

DATE AUG 6 1977

	SAMPLE #	Au grt
1	M23 0-2	<0.02
2	2-4	0.04
3	4-6	0.02
4	6-8	0.02
5	8-10	0.03
6	10-12A	0.02
7	10-12B	<0.02
8	12-14	0.02
9	14-16	0.05
10	16-18	0.06
11	18-20	0.02
12	20-22	<0.02
13	22-24	0.02
14	24-26	0.03
15	26-28	0.07
16	28-30	0.05
17	30-32	0.08
18	32-34	NO SAMPLE
19	34-36	NO SAMPLE
20	36-37	<0.02
21	37-38	NO SAMPLE
22	38-40	<0.02

	SAMPLE #	Au grt
23	40-42	<0.02
24	42-44	<0.02
25	44-46	0.02
26	46-48	0.03
27	48-50	0.03
28	50-52	0.03
29	52-54	<0.02
30	54-56	<0.02
31	56-58	0.02
32	58-60	0.02
33	60-62	0.11
34	60-62	0.03
35	62-64	0.04
36	62-64	0.02
37	64-66	0.04
38	66-68	0.04
39	66-68	0.03
40	66-68	0.05
41	68-70	0.03
42	70-72	0.02
43	72-74	0.11
44	74-76	0.24

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SAMPLE SERIES 112-127 M24

DATE Aug 8/77

	SAMPLE #	Au g/t
1	M24 112-113	0.02
2	113-114	0.04
3	114-116A	0.03
4	114-116B	0.02
5	116-118	0.02
6	118-120	0.03
7	120-122A	<0.02
8	120-122B	0.03
9	122-124	0.03
10	124-126	0.03
11	126-128	0.04
12	EOT	
13		
14		
15		
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	SAMPLE #	Au g/t
23		
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SUPERVISOR _____

SAMPLE SERIES 1897 M24

DATE Nov 5/77

	SAMPLE #	Au g/t
1	M24 38-40	0.05
2	40-42	0.06
3	42-44	0.08
4	44-46A	0.08
5	44-46B	0.08
6	46-48	0.07
7	48-50	0.02
8	50-52	<0.02
9	52-54	0.04
10	54-56	0.03
11	56-58	0.03
12	58-60	0.02
13	60-62	0.04
14	62-64	0.04
15	64-66	0.06
16	66-68	0.04
17	68-70	0.05
18	70-72	0.02
19	72-74	0.04
20	74-76A	0.03
21	74-76B	0.04
22	76-78	0.04

	SAMPLE #	Au g/t
23	78-80	0.03
24	80-82	0.03
25	82-84	0.03
26	84-86	0.02
27	86-88	<0.02
28	88-90	0.03
29	90-92	0.02
30	92-94	0.03
31	94-96	0.02
32	96-98	0.03
33	98-99	0.02
34	99-100	<0.02
35	100-101	<0.02
36	101-102A	0.04
37	101-102B	0.02
38	102-104A	0.04
39	102-104B	0.02
40	104-106	0.03
41	106-108	0.02
42	108-110A	<0.02
43	108-110B	0.02
44	110-112	0.02

SUPERVISOR _____

SAMPLE SERIES TR97-124

DATE 1/26 8/77

	SAMPLE #	Au g/t
1	TR97-124 0-2	<.02
2	2-4	<.02
3	4-6	<.02
4	6-8	<.02
5	8-10	<.02
6	10-12	<.02
7	12-14	<.02
8	14-16	<.02
9	16-18	<.02
10	18-20	.02
11	20-22 A	<.02
12	20-22 B	<.02
13	22-24 A	<.02
14	24 -24 B	<.02
15	24 26A	<.02
16	24 26B	<.02
17	26-27	<.02
18	27-28	<.02
19	28-30	.02
20	30-32	<.02
21	32-34	<.02
22	34-36	.04

	SAMPLE #	Au g/t
23	TR97 124 36 38	.03
24	37-38	.02
25		
26		
27		
28		
29		
30		
31		
32		
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SUPERVISOR _____

SAMPLE SERIES TR97 B3

DATE July 4/97

	SAMPLE #	Au g/t
1	TR97-B3-0-2	.03
2	2-4	.02
3	4-6	.04
4	6-8	.07
5		
6		
7		
8		
9		
10		
11		
12		
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14		
15		
16		
17		
18		
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20		
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22		

	SAMPLE #	Au g/t
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SUPERVISOR

SAMPLE SERIES TR 97 B03

DATE 7/10

	SAMPLE #	Au gr
1	B03	
2		
3		
4		
5	8-10	0.08
6	10-12	0.10
7	12-14	0.07
8	14-16	0.17
9	16-18	0.30
10	18-20	0.56 0.51
11	20-22	0.30
12	22-24	0.40
13	24-25	0.45
14	25-26	0.07
15	26-28	0.08
16	28-30	0.06
17	30-32	0.19
18	32-34	0.22
19	34-36	0.22
20	36-38	0.13
21	38-40	0.15
22	40-42	0.11

	SAMPLE #	Au gr
23	42-44	0.16
24	44-46	0.09
25	46-48	0.03
26	48-50A	0.22
27	48-50B	0.44
28	48-50C	0.58 0.61
29	50-52	0.25
30	52-54	0.18
31	54-56	0.05
32	56-58	0.08
33		
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SUPERVISOR

11/97 B3

DATE JIC

		Au g/t
		0.24
2		0.14
3	64 64	0.25
4	64-66	0.29
5	66-68	0.15
6	68-70	0.24
7	70-72	0.11
8	72-74	0.18
9	74-76	0.23
10	76-78	0.13
11	78-80A	0.19
12	78-80B	0.14
13	80-82A	0.67 0.21
14	80-82B	0.34
15	82-84A	0.08
16	82-84B	2.00 2.18
17	84-86A	0.06
18	84-86B	1.15 0.99
19	86-88	0.20
20	88-90	1.13 0.77
21	90-92	0.16
22	92-94	0.41

	SAMPLE #	Au g/t
23	94-96	0.29
24	96-98	0.15
25	EOT.	
28		
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SUPERVISOR *[Signature]*



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: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Page Number :1
Total Pages :1
Certificate Date: 25-JUL-97
Invoice No. :19732942
P.O. Number :
Account :LDS

Project :
Comments: ATTN:RICK DIMENT

* CORRECTED COPY

CERTIFICATE OF ANALYSIS

A9732942

SAMPLE	PREP CODE	Au ppb FA+AA									
TR97-B3-18-20	217 --	510									
TR97-B3-48-50C	217 --	605									
TR97-B3-80-82A	217 --	775									
TR97-B3-82-84B	217 --	2180									
TR97-B3-84-86B	217 --	985									
TR97-B3-88-90	217 --	985									
TR97-B07-8-10	217 --	1600									
TR97-B07-16-18	217 --	660									
TR97-B07-18-20	217 --	725									
TR97-B07-22-24	217 --	1180									
TR97-B07-24-26	217 --	545									
TR97-B07-26-28	217 --	530									
TR97-B07-28-30	217 --	680									
TR97-B07-30-32	217 --	685									
TR97-B07-32-34	217 --	590									
TR97-B07-34-36	217 --	560									

CERTIFICATION:

* FOP MPLE DESCRIPTIONS

VICEROY BREWERY CREEK MINE

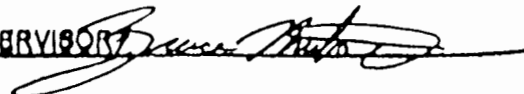
FINAL ASSAY REPORT SHEET

SAMPLE SERIES TR 97 B03

DATE JUNE 5, 1977

	SAMPLE #	Au g/t
1	B03 A	0.10
2	B	0.12
3	C	0.20
4	D	0.16
5	E	0.09
6	F	0.11
7	G	0.25
8		
9		
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22		

	SAMPLE #	Au g/t
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SUPERVISOR 

jul17

A9730743 - CERTIFIED

CLIENT : VICEROY RESOURCE CORPORATION

of SAMPLES : 1

DATE RECEIVED : 05-JUL-97

PROJECT :

CERTIFICATE COMMENTS : ATTN: RON MACKENIE

	384	312
SAMPLE	Ag FA	Pb
DESCRIPTION	g/t	%
TR97-B03 G	1840	20.1



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: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Page: 1-A
Total Pages: 2
Certificate Date: 08-JUL-97
Invoice No.: 19729923
P.O. Number:
Account: LDS

Project:
Comments: ATTN: RON MACKENIE

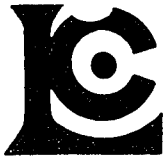
CERTIFICATE OF ANALYSIS

A9729923

SAMPLE	PREP CODE	Au g/t FA+AA	Au FA g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
TR97-B03 A	268 229	0.100	-----	1.2	0.66	100	920	< 0.5	< 2	0.04	< 0.5	< 1	54	4	0.96	< 10	< 1	0.27	30	0.08
TR97-B03 B	268 229	0.085	-----	2.2	1.79	346	430	1.5	< 2	0.43	32.0	23	44	54	3.70	< 10	4	0.17	40	0.21
TR97-B03 C	268 229	0.120	-----	4.4	1.04	636	570	1.0	< 2	0.39	35.5	27	47	27	4.41	< 10	4	0.15	50	0.07
TR97-B03 D	268 229	0.110	-----	5.6	1.02	2310	320	0.5	< 2	0.15	>100.0	11	44	67	6.73	< 10	5	0.15	30	0.06
TR97-B03 E	268 229	0.040	-----	3.2	0.89	660	880	0.5	< 2	0.08	37.5	18	41	21	4.19	< 10	4	0.13	30	0.04
TR97-B03 F	268 229	0.045	-----	6.6	0.88	554	880	0.5	< 2	0.03	27.0	18	41	32	3.83	< 10	6	0.12	20	0.05
TR97-B03 G	268 229	0.190	-----	>100.0	0.59	1250	70	< 0.5	< 2	0.03	46.0	< 1	39	57	2.82	< 10	28	0.10	10	0.05
TR97-B04 00-02	268 --	0.065	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 02-04	268 --	0.025	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 04-06	268 --	0.025	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 06-08	268 --	0.030	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 08-10A	268 --	0.110	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 08-10B	268 --	1.420	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 08-10C	268 --	0.150	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 10-12	268 --	0.495	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 12-14	268 --	0.305	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 14-16	268 --	0.545	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 16-18A	268 --	0.060	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 16-18B	268 --	0.100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 18-20	268 --	0.045	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 20-22	268 --	0.040	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 22-24	268 --	0.030	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 24-25	268 --	0.265	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 25-26	268 --	0.190	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 26-27	268 --	0.065	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 27-28	268 --	0.085	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 28-30	268 --	0.110	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 30-32	268 --	0.180	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 32-34	268 --	0.095	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 34-36	268 --	0.065	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 36-38	268 --	1.515	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 38-40	268 --	>12.00	15.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 40-41	268 --	4.24	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 41-42	268 --	1.120	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 42-44	268 --	>12.00	13.03	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B04 44-46	268 --	4.60	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 00-02	268 --	0.260	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 02-04	268 --	1.120	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 04-06	268 --	0.620	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 06-08	268 --	0.080	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Ron Mackenie

CERTIFICATION: Hunter Beckler



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: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RON MACKENIE

Page 1 of 1-B
Total Pages : 2
Certificate Date: 08-JUL-97
Invoice No. : 19729923
P.O. Number :
Account : LDS

CERTIFICATE OF ANALYSIS

A9729923

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
TR97-B03 A	268	229	70	1 < 0.01		5	420	76	24	1	122 < 0.01	< 10	< 10	< 10	16 < 10		20
TR97-B03 B	268	229	1045	3 < 0.01		118	1260	356	94	13	40 < 0.01	< 10	< 10	< 10	76 < 10		1555
TR97-B03 C	268	229	1765	1 < 0.01		76	1140	1100	176	9	48 < 0.01	< 10	< 10	< 10	51 < 10		2070
TR97-B03 D	268	229	310	3 < 0.01		57	1260	1220	222	11	50 < 0.01	< 10	< 10	< 10	101 < 10		2190
TR97-B03 E	268	229	2220	1 < 0.01		34	410	1250	94	9	89 < 0.01	< 10	< 10	< 10	60 < 10		2160
TR97-B03 F	268	229	3190	1 < 0.01		37	390	2170	102	7	68 < 0.01	< 10	< 10	< 10	53 < 10		2250
TR97-B03 G	268	229	130	1 < 0.01		13	330	>10000	2210	2	100 < 0.01	< 10	< 10	< 10	35 < 10		342
TR97-B04 00-02	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 02-04	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 04-06	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 06-08	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 08-10A	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 08-10B	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 08-10C	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 10-12	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 12-14	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 14-16	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 16-18A	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 16-18B	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 18-20	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 20-22	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 22-24	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 24-25	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 25-26	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 26-27	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 27-28	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 28-30	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 30-32	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 32-34	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 34-36	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 36-38	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 38-40	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 40-41	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 41-42	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 42-44	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B04 44-46	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 00-02	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 02-04	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 04-06	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 06-08	268	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION:

Hart Beckler



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: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Page, Ser : 2-A
Total Pages : 2
Certificate Date: 08-JUL-97
Invoice No. : 19729923
P.O. Number :
Account : LDS

Project :
Comments: ATTN: RON MACKENIE

CERTIFICATE OF ANALYSIS

A9729923

SAMPLE	PREP CODE	Au g/t FA+AA	Au FA g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	
TR97-B05 08-10	268 --	0.770	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 10-12	268 --	0.805	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 12-14	268 --	1.700	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TR97-B05 14-16	268 --	2.92	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: *Ron Mackenie*



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: VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page | er :2-B
 Total Pages :2
 Certificate Date: 08-JUL-97
 Invoice No. :19729923
 P.O. Number :
 Account :LDS

Project :
 Comments: ATTN: RON MACKENIE

CERTIFICATE OF ANALYSIS

A9729923

SAMPLE	PREP CODE	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
TR97-B05 08-10	268 --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 10-12	268 --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 12-14	268 --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TR97-B05 14-16	268 --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION:

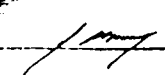
Ron Mackenie

SAMPLE SERIES TR 97 B0 (series)

DATE June 10/97

	SAMPLE #	Aug 1
1	TR B0 1 RD	.03
2	TR B0 2 RD	.03
3	TR B0 3 RD	.02
4	TR B0 4 RD	.30
5	TR B0 5 RD	1.00
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SUPERVISOR 

DEPTOY BREWERY CREEK MINE
 ANAL ASSAY REPORT SHEET

SAMPLE SERIES TR 97 B04

DATE JUNE 11 197

	SAMPLE #	Au g/t
1	B04 36-38	1.42
2	38-40	13.21
3	40-41	4.50
4	41-42	1.10
5	42-44	12.54
6	44-46	4.53
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	SAMPLE #	Au g/t
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SUPERVISOR 

VICEROY BREWERY CREEK MINE

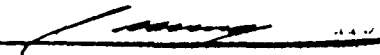
FINAL ASSAY REPORT SHEET

SAMPLE SERIES TR97 B04

DATE JUNE 10 1997

	SAMPLE #	Au g/t
1	B04 46-48	1.35
2	48-50	1.19
3	50-52	0.45
4	52-54	0.25
5	54-56	0.62
6	56-58	0.26
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	SAMPLE #	Au g/t
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SUPERVISOR 

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES TR 97 B04 (ORIGINAL)DATE JUNE 5 1977

	SAMPLE #	Au g/t
1	B04 0-2	0.07
2	2-4	0.06
3	4-6	0.05
4	6-8	0.03
5	8-10A	0.12
6	8-10B	1.55
7	8-10C	0.17
8	10-12	0.49
9	12-14	0.31
10	14-16	0.51
11	16-18A	0.05
12	16-18B	0.05
13	18-20	0.03
14	20-22	0.02
15	22-24	0.03
16	24-25	0.26
17	25-26	0.17
18	26-27	0.03
19	27-28	0.09
20	28-30	0.09
21	30-32	0.13
22	32-34	0.07

	SAMPLE #	Au g/t
23	34-36	0.07
24	36-38	1.42
25	38-40	13.77
26	40-41	4.00
27	41-42	0.99
28	42-44	12.97
29	44-46	4.49
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SUPERVISOR Bruce Mathis



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: VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT, L. JAMRICH

Page : 1
Total Pages : 1
Certificate Date: 15-JUL-97
Invoice No. : 19731388
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9731388

SAMPLE	PREP CODE	Au ppb RUSH	Au FA g/t								
TR97-B4, 4-6	255 295	580	-----								
TR97-B4, 6-8	255 295	2640	-----								
TR97-B4, 8-10	255 295	2460	-----								
TR97-B4, 10-12	255 295	3400	-----								
TR97-B4, 12-13	255 295	4760	-----								
TR97-B4, 13-14	255 295	5840	-----								
TR97-B4, 14-16	255 295	4340	-----								
TR97-B4, 16-18	255 295	>10000	15.36								
TR97-B4, 18-19	255 295	4400	-----								

CERTIFICATION: *Theresa Vank*

A9731388 - CERTIFIED
CLIENT : VICEROY INTERNATIONAL EXPLORATION
of SAMPLES : 9
DATE RECEIVED : 09-JUL-97
PROJECT :
CERTIFICATE COMMENTS : ATTN: RICK DIMENT L. JAMRICH

SAMPLE DESCRIPTION	991	997
	Au ppb RUSH	Au FA g/t
TR97-B4;4-6	-580 ---	
TR97-B4;6-8	2640 ---	
TR97-B4;8-10	2460 ---	
TR97-B4;10-12	3400 ---	
TR97-B4;12-13	4760 ---	
TR97-B4;13-14	5840 ---	
TR97-B4;14-16	4340 ---	
TR97-B4;16-18	>10000	15.36
TR97-B4;18-19	4400 ---	



Weighted Avg:
4.84 g/t/15m

SAMPLE SERIES TK 97 B04

DATE July 1971

	SAMPLE #	Au g/t
1	B4 0-2	0.35
2	2-4	0.35
3	4-6	2.75
4	6-8	3.00
5	8-10	2.43
6	10-12	3.44
7	12-13	4.20
8	13-14	5.50
9	14-16	3.70
10	16-18	11.66
11	18-19	3.42
12	19-20	0.23
13	20-22 A	0.34
14	20-22 B	0.04
15	22-24	0.09
16	24-26	0.12
17	26-28	0.13
18	28-30	0.04
19	30-32	0.04
20	32-34	0.20
21	EOT	
22		

	SAMPLE #	Au g/t
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27	15m = 4.45 g/t	
28	15m = 4.50 g/t / 15 m	
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SUPERVISOR *B.M.*

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

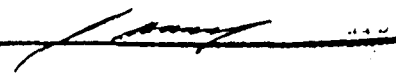
SAMPLE SERIES TR 97 B05

DATE JUNE 10 1997

	SAMPLE #	Au g/t
1	B05 16-18	0.96
2	18-20	2.60
3	20-22	2.23
4	22-24	0.43
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	SAMPLE #	Au g/t
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SUPERVISOR



Replicates


BEROY BREWERY CREEK MINE
FINAL ASSAY REPORT SHEET

SAMPLE SERIES TR 97 B05

DATE JUNE 11 1997

	SAMPLE #	Au g/t
1	B05 2-4	1.19
2	4-6	0.74
3	6-8	0.09
4	8-10	0.81
5	10-12	0.73
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SUPERVISOR 

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES TR97 B05 (ORIGINALS) DATE JUNE 5 197

	SAMPLE #	Au g/t
1	B05 0-2	0.21
2	2-4	1.10
3	4-6	0.62
4	6-8	0.09
5	8-10	0.77
6	10-12	0.78
7	12-14	1.78
8	14-16	2.82
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	SAMPLE #	Au g/t
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SUPERVISOR *[Signature]*

cut

SAMPLE SERIES TR 97 B05

DATE

SAMPLE #	Au g/l
B05 0-2	0.58
2-4	0.21
4-6	1.09
6-8	2.40
8-10	3.14
10-12	1.58
12-14	0.62
14-16	1.97
16-18	1.42
18-20	0.33
20-22	2.17
22-24	0.23
24-26	0.29
26-28	1.28
28-30	5.57
30-32	0.36
32-34	0.04
EOT	

SAMPLE #	Au g/l
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SUPERVISOR B.H.

jul17b

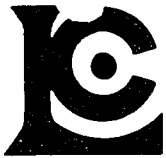
Received July 17/97
Checks From Chemex

A9731389 - CERTIFIED
CLIENT : VICEROY INTERNATIONAL EXPLORATION
of SAMPLES : 15
DATE RECEIVED : 09-JUL-97
PROJECT :
CERTIFICATE COMMENTS : ATTN: RICK DIMENT L. JAMRICH

991

SAMPLE DESCRIPTION	Au ppb RUSH
TR97-B5;0-2	.550
TR97-B5;2-4	-260
TR97-B5;4-6	1.145
TR97-B5;6-8	2360
TR97-B5;8-10	3500
TR97-B5;10-12	1960
TR97-B5;12-14	550
TR97-B5;14-16	2400
TR97-B5;16-18	1720
TR97-B5;18-20	315
TR97-B5;20-22	2580
TR97-B5;22-24	240
TR97-B5;24-26	365
TR97-B5;26-28	1325
TR97-B5;28-30	6200

1.90 g/t / 26m



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: VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN: RICK DIMENT, L. JAMRICH

Page : 1
 Total Pages : 1
 Certificate Date: 14-JUL-97
 Invoice No. : 19731389
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9731389

SAMPLE	PREP CODE		Au ppb RUSH									
TR97-B5; 0-2	255	295	550									
TR97-B5; 2-4	255	295	260									
TR97-B5; 4-6	255	295	1145									
TR97-B5; 6-8	255	295	2360									
TR97-B5; 8-10	255	295	3500									
TR97-B5; 10-12	255	295	1960									
TR97-B5; 12-14	255	295	550									
TR97-B5; 14-16	255	295	2400									
TR97-B5; 16-18	255	295	1720									
TR97-B5; 18-20	255	295	315									
TR97-B5; 20-22	255	295	2580									
TR97-B5; 22-24	255	295	240									
TR97-B5; 24-26	255	295	365									
TR97-B5; 26-28	255	295	1325									
TR97-B5; 28-30	255	295	6200									

CERTIFICATION:

Frank Vankh

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES TR 97 B06

DATE JUNE 6 197

	SAMPLE #	Au g/t
1	TR 97 B06 A	0.04
2	B	0.36
3	C	0.06
4	D	0.04
5	E	0.04
6	F	0.09
7	G	0.08
8	H	0.11
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SUPERVISOR *[Signature]*

SAMPLE SERIES TR97 B07

	SAMPLE #	AU GR
1	B07 0-2	0.11
2	2-4	0.14
3	4-6	0.08
4	6-8	0.04 <small>check</small>
5	8-10	1.54 (1.60)
6	10-12	0.07
7	12-14	0.04
8	14-16	0.20
9	16-18	0.57 0.64
10	18-20	0.69 0.75
11	20-22	0.40
12	22-24	0.98 1.18
13	24-26	0.51 0.55
14	26-28	0.58 0.58
15	28-30	0.55 0.68
16	30-32	0.66 0.69
17	32-34	0.59 0.59
18	34-36	0.61 0.56
19	36-38	0.18
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SUPERVISOR B.M.



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: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Page 1 of 1
Total Pages : 1
Certificate Date: 25-JUL-97
Invoice No. : 19732942
P.O. Number :
Account : LDS

Project :
Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS

A9732942

SAMPLE	PREP CODE	Au ppb FA+AA										
TR97-B3-18-20	217 --	510										
TR97-B3-48-50C	217 --	605										
TR97-B3-80-82A	217 --	775										
TR97-B3-82-84B	217 --	2180										
TR97-B3-84-86B	217 --	985										
TR97-B3-88-90	217 --	985										
TR97-B3-8-10	217 --	1600										
TR97-B3-16-18	217 --	660										
TR97-B3-18-20	217 --	725										
TR97-B3-22-24	217 --	1180										
B07 TR97-B3-24-26	217 --	545										
TR97-B3-26-28	217 --	530										
TR97-B3-28-30	217 --	680										
TR97-B3-30-32	217 --	685										
TR97-B3-32-34	217 --	590										
TR97-B3-34-36	217 --	560										

CERTIFICATION:

Mark Vank

FINAL ASSAY REPORT SHEET

SAMPLE SERIES Exploration ϵ

DATE Aug. 2/97

	SAMPLE #	Au g/t
1	Exp. 97-B0-7-1	.05
2	7-2	.03
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SUPERVISOR

SAMPLE # Exp. Trench

July 7/97

	SAMPLE #	AV. LB
1	B08 0-2	0.07
2	2-4	0.03
3	4-6	0.05
4	6-8	0.09
5	8-10	0.04
6	10-12	0.07
7	12-14	0.06
8	14-16	0.03
9	16-18	0.04
10	18-20A	0.07
11	B	0.06
12	20-22	0.04
13	22-24	0.02
14	24-26	0.05
15	26-28	0.07
16	28-30	0.11
17	30-32	0.04
18	32-34	0.08
19	34-36	<0.02
20	36-38	0.03
21	38-40	0.08
22	40-42	0.05

	SAMPLE #	AV. LB
23	42-44	0.09
24	44-46	0.11
25	E.O.T.	
26		
27		
28	B08-LAQM	<0.02
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

SUPERVISOR

SAMPLE # Exp Trench.

	SAMPLE #	AVG
1	B09 2-4	0.05
2	4-6	0.04
3	6-8	0.02
4	8-10	0.04
5	10-12	0.06
6	12-14	0.06
7	14-16	0.08
8	16-18	0.03
9	18-28	N.S.
10		
11	28-30	<0.02
12	30-40	N.S.
13		
14	40-42	0.02
15	E.O.T.	
16		
17		
18		
19		
20		
21		
22		

	SAMPLE #	AVG
23		
24		
25		
26		
27		
28		
29		
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31		
32		
33		
34		
35		
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37		
38		
39		
40		
41		
42		
43		
44		

ROBYN

SAMPLE SERIES *Exp Trench*

DATE *Aug 1/93*

	SAMPLE #	Augr
1	B010 0-2	0.05
2	2-3	0.02
3	3-5	<0.02
4	5-7	<0.02
5	7-9	<0.02
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

	SAMPLE #	Augr
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
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34		
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IMAGE

UNIVERSITY

FINAL ASSAY REPORT SHEET

Detailed Trench

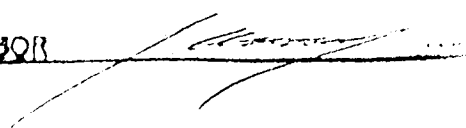
SAMPLE SERIES TR 17 BC 11

DATE July

	SAMPLE #	Au g/t
1	C-2	.12
2	2-4	.02
3	4-6	<.02
4	6-8	<.02
5	8-9	<.02
6	9-10	<.02
7	10-12	.03
8	12-14	.02
9	14-16	.03
10	16-18	.04
11	18-18.5	.05
12	18.5-20	.04
13	20-22	.56
14	22-24	.15
15	24-26	.38
16	26-28	.15
17	28-30	.22
18	30-32	<.02
19	32-34	<.02
20	34-36	<.02
21	36-38A	.04
22	36-38B	.10

	SAMPLE #	Au g/t
23	38-40	.14
24	40-42	.21
25	42-44	<.02
26	44-46	.03
27	46-48	<.02
28	48-50	.06
29	50-52	.06
30	52-54	.05
31	54-56	.07
32	56-58	.03
33	58-60	.05
34	60-62	.03
35	Blank	
36		
37		
38		
39		
40		
41		
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44		

SUPERVISOR



SAMPLE SERIES TR 97 BOLL

DATE 10/14

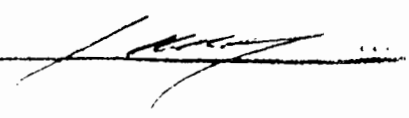
SAMPLE #	Au g/t
1-2	0.00
2-4	0.00
4-6	<0.02
6-8	0.06
8-10	0.03
10-12	0.00
12-14	0.24
14-16	2.13
16-18	1.89
18-20	1.14
20-22	0.31
22-24	2.01
24-26	2.58
26-28	<0.02
28-30	0.09
30-32	<0.02
32-34	<0.02
34-36	0.47
36-42 m	NOSAMPLE

SAMPLE #	Au g/t	
23	42-44	0.14
24	44-46	0.00
25	46-48	0.16
28	48-50	0.46
27	50-52	0.25
28	52-54	0.00
28	54-56	1.42
30	56-58	0.20
31	58-60	5.20
32	60-62	0.00
33	62-64	2.49
34	64-66	0.51
35	66-68	0.83
38	68-70	
37		
38		
39		
40		
41		
42		
43		
44		

79 g/t / 12 m

1.64 g/t / 14

SUPERVISOR



CTE

SAMPLE SERIES TR97 CL5

DATE AUG 10/97

	SAMPLE #	Avg
1	CL5 0-3	0.17
2	3-6	0.14
3	6-9	0.09
4	9-12	0.14
5	12-15	0.10
6	15-18	0.21
7	18-21	0.30
8	21-24	0.33
9	24-27	0.33
10	27-30	0.13
11	30-33	0.26
12	33-36	0.03
13	36-39	0.02
14	39-42	0.05
15	42-45	0.06
16	45-48	0.10
17	48-51	0.26
18	51-54	0.23
19	54-57	0.21
20	57-60	0.12
21	60-63	0.35
22	63-66	0.25

	SAMPLE #	Avg
23	66-69	0.14
24	69-72	0.11
25	72-75	0.17
26	75-78	0.12
27	78-81	0.23
28	81-84	0.16
29	84-87	0.10
30	87-90	0.10
31	90-93	0.04
32	93-96	0.18
33	96-99	0.06
34	99-102	0.05
35	102-105	0.03
36	105-108	0.04
37	108-111	0.04
38	111-114	0.03
39	114-117	0.03
40	117-120	0.03
41	120-123	0.13
42	EOT	
43		
44		

SUPERVISOR

VICEROY BREWERY GREEN HILL
 FINAL ABBAY REPORT SHEET

CTE

SAMPLE SERIES TR 97 CL6

DATE AUG 10/97

	SAMPLE #	AUGR
1	CL6 0-3	0.02
2	3-6	0.02
3	6-9	0.03
4	9-12	0.02
5	12-15	0.04
6	15-18	0.03
7	18-21	0.03
8	21-24	0.03
9	24-27	0.04
10	27-30	0.05
11	30-33	0.06
12	33-36	0.05
13	36-39	0.02
14	39-42	0.17
15	42-45	0.03
16	45-48	0.02
17	48-51	0.02
18	51-54	0.02
19	54-57	0.20
20	57-60	0.03
21	60-63	0.06
22	63-65	0.02

EOT

	SAMPLE #	AUGR
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

SUPERVISOR

FINAL ABBAY REPORT SHEET

SAMPLE SERIES TR97 CL-7

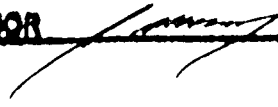
DATE Aug 21/97

	SAMPLE #	AUG
1		
2	2-4 A	0.03
3	2-4 B	0.02
4	4-6	0.03
5	6-8	0.04
6	8-10	0.03
7	10-12	0.04
8	12-14	0.12
9	14-16	0.05
10	16-18	0.04
11	18-20	0.07
12	20-22	0.03
13	22-24	0.04
14	24-26	0.04
15	26-28	0.03
16	28-30	0.05
17	30-32	0.04
18	32-34	0.04
19	34-36	0.24
20	36-38	0.16
21	38-40	0.09
22	40-41	0.11

	SAMPLE #	AUG
23	41-42	0.17
24	42-44	0.13
25	44-46.6	0.22
26	46.6-48	2.21
27	48-50	1.88
28	50-52	1.65
29	52-54	0.13
30	54-56	0.03
31	56-58	0.04
32	58-60	0.27
33	60-62	0.22
34	62-64	0.03
35	64-66	0.17
36	64-66	<.02
37	66-68	.22
38	68-70	1.16
39	70-72	.66
40	72-74	.59
41	74-76	.31
42	76-78	.14
43	78-79	1.30
44	79-80	.16

1.88
/5

0.69
/18

SUPERVISOR 

SAMPLE SERIES TR 97 CL-7

DATE Aug 23/97

	SAMPLE #	AUG
1	80-82	.11
2	82-84	.12
3	84-86	1.63
4	86-88	.15
5	88-90	.06
6	90-92	.05
7	92-94	.29
8	94-96	.16
9	96-98	.02
10	98-100	.15
11	100-102	.61
12	102-104	.32
13	104-106	.73
14	106-108.5	.62
15	108.5-110	.15
16	110-112	1.00
17	112-113	.11
18	113-114	.57
19	114-116	.55
20	116-118	.10
21	118-120	.09
22	120-122	.19

	SAMPLE #	AUG
23	122-124	.11
24	124-126	1.33
25	126-128	.71
26	128-130	.69
27	130-149	No Samples
28	149-150	.05
29	150-152	.14
30	152-154	.19
31	154-156	.18
32	156-158	.18
33	158-160	.09
34	160-160.7	0.60
35	160.7-161.8	0.27
36	161.8-164	0.34
37	164-166	0.12
38	166-168	0.11
39	168-170	0.11
40	170-172.2	0.33
41	172.2-174	0.23
42	174-176	0.23
43	176-178	0.22
44	178-180	0.21

SUPERVISOR [Signature]

SAMPLE SERIES TR 97 CL 7

DATE Aug 25/97

	SAMPLE #	Au g/t
1	180 - 181	0.22
2	181 - 182	0.38
3	182 - 184	0.26
4	184 - 186	0.15
5	186 - 188	0.31
6	188 - 189	0.04
7	189 - 189.8	0.37
8	189 - 192	0.26
9	192 - 194	0.15
10	194 - 196	0.05
11	196 - 198	0.85
12	198 - 200	0.11
13	200 - 201	0.07
14	201 - 202	0.04
15	202 - 204	0.04
16	204 - 205	0.03
17	205 - 206	0.05
18	206 - 208	0.10
19	208 - 209	0.05
20	209 - 210	0.06
21	210 - 212	0.14
22	212 - 214	0.27

	SAMPLE #	Au g/t
23	214 - 216	0.38
24	216 - 218	0.17
25	218 - 220	0.21
26	220 - 221	0.09
27	221 - 222	0.10
28	222 - 224	0.27
29	224 - 226	0.11
30	226 - 229	0.04
31	E.O.T.	
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

SUPERVISOR [Signature]

SAMPLE SERIES TR 97 - CL 8

DATE Aug 25/92

	SAMPLE #	Au g/t
1	0-2	0.06
2	2-4	0.09
3	4-6	0.04
4	6-8	0.06
5	8-10	0.07
6	10-12	0.10
7	12-14	0.08
8	14-16	0.12
9	16-18	0.06
10	18-20	0.07
11	20-22	0.08
12	22-24	0.08
13	24-26	0.09
14	26-28	0.15
15	28-30	0.09
16	30-32	0.04
17	32-34	0.07
18	34-36	0.11
19	36-38	0.05
20	38-40	0.10
21	40-42	0.02
22	42-44	0.08

	SAMPLE #	Au g/t
23	44-46	0.02
24	46-48	0.07
25	48-50	0.08
26	50-52	0.19
27	52-54	0.00
28	54-56	0.04
29	56-58	0.10
30	58-60	0.04
31	60-62	<0.02
32	62-64	<0.02
33	64-66	0.02
34	66-68	0.10
35	68-70	0.02
36	70-72	0.05
37	72-74	<0.02
38	74-76	0.05
39	76-78	0.07
40	78-80	<0.02
41	80-82	0.03
42	82-84	0.02
43	84-86	0.02
44	86-88	0.17
	88-90	0.05

SUPERVISOR

C

SAMPLE SERIES TR97 CLB

DATE AUG 26 197

	SAMPLE #	AUGR
1	100-102	< 0.02
2	102-104	< 0.02
3	104-106	< 0.02
4	106-108	< 0.02
5	108-110	< 0.02
6	110-112	< 0.02
7	112-114	< 0.02
8	114-116	< 0.02
9	116-117	< 0.02
10	117-118	0.05
11	118-120	0.04
12	120-122	< 0.02
13	122-124	0.11
14	124-126	0.02
15	126-128	0.03
16	128-130	0.14
17	130-132	< 0.02
18	132-133	< 0.02
19	133-134	0.04
20	134-136	0.07
21	136-138	0.06
22	138-139	0.65

	SAMPLE #	AUGR
23	139-140	0.20
24	140-142	0.03
25	142-144	0.04
26	144-146	< 0.02
27	146-148	< 0.02
28	148-150	0.04
29	150-152	0.06
30	EOT	
31		
32	90-100	NO SAMPLE
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

SUPERVISOR

FINAL ASSAY REPORT SHEET

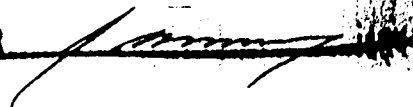
SAMPLE SERIES TR 97 CL-9

DATE Aug 23/97

	SAMPLE #	AUGR
1	0-2	.09
2	2-4	.08
3	4-6	.07
4	6-8	.09
5	8-10A	.09
6	8 ^c -10B	.07
7	10-12	.05
8	12-14	.07
9	14-16	.07
10	16-18	<.02
11	18-20	<.02
12	20-22	<.02
13	22-24	<.02
14	24-26	<.02
15	26-28	.06
16	28-30	.06
17	30-32	<.02
18	32-34	<.02
19	34-36	.08
20	36-38	.02
21	38-40	.02
22	40-42	.02

	SAMPLE #	AUGR
23	42-44	.02
24	44-46	<.02
25	46-48	.03
26	48-50	.02
27	50-51	.03
28	51-52	.12
29	52-54	.32
30	54-56	.26
31	56-58	.05
32	58-60	.19
33	60-62	.06
34	62-64	.71
35	64-66	.56
36	66-68	.10
37	68-70	.02
38	70-72	2.19
39	72-74	.20
40	74-76	.10
41	76-78	.09
42	78-80	.06
43	80-82	.07
44	82-84	.04

SUPERVISOR



SAMPLE SERIES TR 97 CL-9

DATE Aug 24/97

	SAMPLE #	Avg
1	84-86	.34
2	86-88	1.60
3	88-90	.14
4	90-92	.51
5	92-94	.55
6	94-96	.20
7	96-98	.05
8	98-100	.44
9	100-102	2.43
10	102-104	.32
11	104-106	.10
12	106-108	.04
13	108-110	.05
14	110-112	.17
15	112-114	.29
16	114-116	.44
17	116-118	.24
18	118-120	.19
19	120-122	.55
20	122-124	.44
21	124-150	No Sample
22	150-152	.23

	SAMPLE #	Avg
23	152-154	.69
24	154-156	.15
25	156-158	.16
26	158-160	.14
27	160-162	.16
28	162-164	1.46
29	164-166	.25
30	166-168	1.10
31	168-170	.45
32	170-172	.35
33	172-174	.57
34	174-176	.59
35	176-178	.46
36	178-180	.54
37	180-182	1.25
38	182-184	.27
39	184-186	.15
40	186-188	.20
41	188-190	.12
42	190-192	.14
43	192-194	.10
44	194-196	.15

0.70
20

SUPERVISOR 

SAMPLE SERIES T 97 CL 9

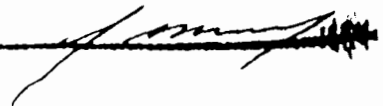
DATE Aug 24/97

	SAMPLE #	Au gr
1	196 - 198	.22
2	198 - 200	.24
3	200 - 202	.30
4	202 - 204	.29
5	204 - 206	.26
6	206 - 208	.10
7	208 - 210	.11
8	210 - 212	.12
9	212 - 214	.07
10	214 - 216	.13
11	216 - 218	.13
12	218 - 220	.11
13	220 - 222	.11
14	222 - 224	.36
15	224 - 226	.16
16	226 - 228	.16
17	228 - 230	.03
18	230 - 232	.09
19	232 - 234	.05
20	234 - 236	.08
21	236 - 238	.04
22	238 - 239	2.02

E.O.T.

	SAMPLE #	Au gr
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

SUPERVISOR



SAMPLE SERIES TR 97 CL-10

DATE Aug 26/97

	SAMPLE #	Avg
1	0-4	No Samples
2	4-6	.10
3	6-8	.09
4	8-10	.07
5	10-12	.60
6	12-14	.16
7	14-16	.07
8	16-18	.06
9	18-20	.14
10	20-22	.14
11	22-24	.25
12	24-26	.27
13	26-28	.05
14	28-30	.56
15	30-32	.10
16	32-34	.15
17	34-36	.16
18	36-38	.19
19	38-39	.14
20	39-40	.20
21	40-42	.24
22	42-44	.11

	SAMPLE #	Avg
23	44-46	.12
24	46-48	.27
25	48-50	.07
26	50-52	.15
27	52-54	.12
28	54-56	.17
29	56-58	.08
30	E.O.T.	
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

SUPERVISOR 

SAMPLE SERIES TK 94 (11)

DATE Aug 27/97

	SAMPLE #	Au g/L
1	0-2	<0.02
2	2-4	0.02
3	4-6	0.02
4	6-8	0.12
5	8-10	0.03
6	10-12	<0.02
7	12-14	0.08
8	14-16	0.98
9	16-18	0.31
10	18-20	0.02
11	20-22	<0.02
12	22-24	<0.02
13	24-26	<0.02
14	26-28	0.03
15	28-30	<0.02
16	30-32	0.03
17	32-34	0.02
18	34-36	<0.02
19	36-38	<0.02
20	38-40	<0.02
21	40-42	0.02
22	42-202	NOSAMPLE

	SAMPLE #	Au g/L
23	202-204	0.03
24	204-206	0.05
25	206-208	0.06
26	208-210	0.02
27	210-212	0.07
28	212-222	NOSAMPLE
29	222-224	0.09
30	224-226	0.03
31	226-228	0.04
32	228-230	0.06
33	230-232	0.02
34	232-234	0.04
35	234-236	0.02
36	236-238	<0.02
37	238-240	0.02
38	240-242	0.04
39	242-244	0.03
40	244-246	0.04
41	246-248	0.10
42	248-250	0.12
43	250-252	0.06
44	252-254	0.05

SUPERVISOR

SAMPLE SERIES 7A-77-0211

DATE 7/20/77

	SAMPLE #	AU g/L
1	254-256	0.07
2	256-258	0.04
3	258-260	0.07
4	260-262	0.08
5	262-264	0.06
6	264-266	0.23
7	266-268	0.10
8	268-270	0.05
9	270-272	0.06
10	272-274	0.04
11	274-276	<0.02
12	276-278	0.02
13	278-280	<0.02
14	280-282	0.05
15	EO7	
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	SAMPLE #	AU g/L
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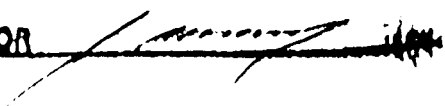
SUPERVISOR

SAMPLE SERIES TR 97 WBR - 1

DATE Aug 23/93

	SAMPLE #	Au gr
1	0-2	.05
2	2-4	.07
3	4-6	.23
4	6-8	.32
5	8-10	1.05
6	10-12	.59
7	12-14A	1.01
8	12-14B	1.02
9	14-16	1.93
10	16-18	1.25
11	18-20	.38
12	20-22	.99
13	22-24	.80
14	24-26	.05
15	26-28	.02
16	EOT	
17		
18		
19		
20		
21		
22		

	SAMPLE #	Au gr
23		
24		
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SUPERVISOR 

SAMPLE SERIES 7R 97 WBR 2

DATE AUG 26/97

	SAMPLE #	AU GR
1	0-2	0.26
2	2-4	0.50
3	4-6	0.16
4	6-8	0.21
5	8-10	0.18
6	10-12	0.23
7	12-13	0.09
8	13-14	0.19
9	14-16	0.26
10	16-18	0.06
11	18-19	0.18
12	19-20	0.13
13	20-22	0.08
14	22-24	0.08
15	24-28	NO SAMPLE
16	28-30	0.14
17	30-32	0.20
18	32-34	0.74
19	34-36	0.98
20	36-38	0.06
21	EOT	
22		

	SAMPLE #	AU GR
23		
24		
25		
26		
27		
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SUPERVISOR _____

SAMPLE SERIES 1097 FISH

DATE Aug 12/71

	SAMPLE #	Au gr
1	0-2	.19
2	2-4	.09
3	4-6	.05
4	6-8	.05
5	8-10	.08
6	10-12	.09
7	12-12.5	.05
8	12.5-14	.07
9	14-16	.08
10	16-18	.93
11	18-20	.32
12	20-22	.21
13	22-22.5	.10
14	22.5-24	.15
15	24-26	.07
16	26-28	.09
17	28-29.8	.15
18	29.8-30.3	.59
19	30.3-32	.21
20	32-34	.13
21	34-36	.06
22	36-38	.04

	SAMPLE #	Au gr
23	38-40	.05
24	40-42	.03
25	42-44	.04
26	44-46.5	.05
27	46.5-48	.04
28	48-50	.05
29	50-52	0.02
30	52-54.2	0.02
31	54.2-56	0.05
32	56-57.7	0.16
33	57.7-58.2	0.75
34	58.2-60	0.05
35	60-62	0.06
36	62-64.5	0.04
37	64.5-67	0.04
38	67-68	0.02
39	68-71	0.05
40	71-72	0.06
41	72-74	0.03
42	74-76 A	0.04
43	74-76 B	0.05
44	76-78	0.02

SUPERVISOR

SAMPLE SERIES TR97 EBR-1

DATE Aug 20/97

	SAMPLE #	Au gr
1	76-78	0.07
2	78-80	0.03
3	80-82	0.04
4	82-84	0.03
5	84-86	0.03
6	86-88	0.04
7	EOT	
8		
9		
10		
11		
12		
13		
14		
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19		
20		
21		
22		

	SAMPLE #	Au gr
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24		
25		
26		
27		
28		
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SUPERVISOR

SAMPLE SERIES TR97 EBR 2

DATE Aug 29/97

	SAMPLE #	Au qt
1	0-2	4.10
2	2-4	1.07
3	4-6 A	0.35
4	4-6 B	0.29
5	6-8	0.22
6	8-10	4.17
7	10-12	1.59
8	12-12.9	1.06
9	12-14	0.13
10	14-16	0.02
11	16-18	0.02
12	18-20	0.02
13	20-22	0.02
14	22-24	0.04
15	24-26	0.02
16	26-28	0.05
17	28-30	0.02
18	30-32	0.08
19	32-34	0.02
20	34-36	0.02
21	36-38	0.04
22		

	SAMPLE #	Au qt
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
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SUPERVISOR

104

FINAL ABBAY REPORT SHEET

SAMPLE SERIES TR97 EBR-3

DATE Aug 21/97

	SAMPLE #	Aug 97
1	0-2	0.03
2	2-4	0.04
3	4-6	0.03
4	6-8 A	0.03
5	6-8 B	0.05
6	8-10	0.03
7	10-12	<0.02
8	12-14	<0.02
9	14-16	<0.02
10	16-18	<0.02
11	18-20	0.03
12	20-22	0.03
13	22-24	0.02
14	24-26	0.04
15	26-28	0.04
16	28-30	0.03
17	30-32	<0.02
18	32-34	<0.02
19	34-36	<0.02
20	36-38	<0.02
21	38-40	0.02
22	40-42	<0.02

	SAMPLE #	Aug 97
23	42-43	0.03
24	43-44	0.02
25	44-46	0.02
26	46-48	0.02
27	48-50	<0.02
28	50-52	0.12
29	52-54	0.38
30	54-56	0.44
31	56-58	0.17
32	58-60	0.13
33	60-62	0.07
34		
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42		
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SUPERVISOR

SAMPLE SERIES TR 97 EBR#

DATE Aug 20/97

	SAMPLE #	AUGR
1	0-2 A	0.02
2	0-2 B	0.02
3	2-4	0.04
4	4-6.3	0.90
5	6.3-7	0.63
6	7-8	3.07
7	8-10	2.99
8	10-12.8	0.82
9	12.8-14	6.12
10	14-16	0.13
11	16-17	1.84
12	17-18	0.07
13	18-20	0.04
14	20-22	0.04
15	22-24	0.21
16	24-26	0.25
17	26-28	0.27
18	28-30	0.20
19	30-32	0.08
20	32-34	0.04
21	34-36	0.07
22	36-38	0.03
23	38-40	0.02

EOT

	SAMPLE #	AUGR
23		
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25		
26		
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~~XXXXXXXXXX~~ *[Signature]*

SAMPLE SERIES TK 97 1002

DATE AUG 27/77

	SAMPLE #	AU gr
1	0-2	0.03
2	2-4	0.04
3	4-6	<0.02
4	6-8	0.02
5	8-10	<0.02
6	10-12	0.02
7	12-14	0.07
8	14-16	0.05
9	16-18.5	0.02
10	18.5-20	0.04
11	20-22	0.03
12	22-24	0.04
13	24-26	0.03
14	26-8	0.08
15	28-30	0.06
16	30-32	0.07
17	32-34	0.02
18	34-36	0.03
19	36-38	0.04
20	38-40	0.11
21	40-42	0.06
22	42-44	0.20

	SAMPLE #	AU gr
23	44-45.5	0.66
24	45.5-48	0.59
25	48-50	0.78
26	50-52	0.47
27	52-54	0.66
28	54-56	0.33
29	56-58	0.21
30	58-60	0.23
31	60-62	0.16
32	62-64	0.09
33	64-66	0.21
34	66-68	0.11
35	68-70	0.27
36	70-72	0.15
37	72-74	0.39
38	74-76	0.25
39	76-78	0.14
40	78-80	0.15
41	80-82	0.13
42	82-84	0.11
43	84-86	0.06
44	86-88	0.04

SUBMITTER

148

SAMPLE SERIES TR97 N62

DATE AUG 27/97

	SAMPLE #	Au gr
1	88-90	0.05
2	90-92	0.06
3	92-94	0.02
4	94-96	0.04
6	96-98	0.03
6	98-100	<0.02
7	100-102	0.02
8	EOT	
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22		

	SAMPLE #	Au gr
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SUBMITTER

VICEROY BREWERY CREEK MINE
FINAL ASSAY REPORT SHEET

6

SAMPLE SERIES TR97 SC1

DATE SEPT 26 1997

	SAMPLE #	Au g/t
1	TR97 SC1 0-2	<.02
2	2-4	<.02
3	4-6	<.02
4	6-8	<.02
5	8-10	<.02
6	10-12	<.02
7	12-14	<.02
8	14-16	<.02
9	16-18	<.02
10	18-20	<.02
11	20-22	<.02
12	22-24	<.02
13	24-26	<.02
14	26-28	<.02
15	28-30	.22
16	30-32	.14
17	32-34	<.02
18	34-36	.61
19	36-38	.83
20	38-40	1.08
21		
22		

	SAMPLE #	Au g/t
23	40.3-42	0.35
24	42-44	0.23
25	44-46	0.21
26	46-48	0.07
27	48-50	0.20
28	50-52	0.61
29	52-54	0.52
30	54-56	0.04
31	56-58	0.04
32	58-60	0.04
33	60-62	0.84
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SUPERVISOR *[Signature]*

IMAGE

WHEAT CREEK MINE
FINAL ASSAY REPORT SHEET

SAMPLE SERIES TK 97-1-2

DATE _____

	SAMPLE #		SAMPLE #	Au g/t
1	1-2	0.0	23	
2	2-3	0.0	24	
3	3-5	0.0	25	
4	5-7	0.0	26	
5	7-9	0.0	27	
6	9-11	0.0	28	
7	11-13	0.0	29	
8	13-14	0.0	30	
9	14-16	0.0	31	
10	16-18	0.0	32	
11	18-20	0.0	33	
12	20-22	0.0	34	
13			35	
14			36	
15			37	
16			38	
17			39	
18			40	
19			41	
20			42	
21			43	
22			44	

SUPERVISOR _____

BEST ATTAINABLE
IMAGE

RC DRILLHOLES

Hole ID	Interval (m)	Au g/t			
RC97-1672	0-2	0.13	RC97-1672	12-14D	0.03
RC97-1672	2-4	0.15	RC97-1673	14-16D	<0.02
RC97-1672	4-6	to follow	RC97-1674	16-18D	0.05
RC97-1672	6-8	0.07	RC97-1675	18-20D	0.12
RC97-1672	8-10	0.07			
RC97-1672	10-12	0.07			
RC97-1672	12-14	0.03			
RC97-1672	14-16	0.06			
RC97-1672	16-18	0.05			
RC97-1672	18-20	0.02			
RC97-1672	20-22	0.04			
RC97-1672	22-24	0.03			
RC97-1672	24-26	0.03			
RC97-1672	26-28	0.03			
RC97-1672	28-30	0.05			
RC97-1672	30-32	0.05			
RC97-1672	32-34	0.03			
RC97-1672	34-36	0.02			
RC97-1672	36-38	0.04			
RC97-1672	38-40	0.04			
RC97-1673	0-2	0.03			
RC97-1673	2-4	0.02			
RC97-1673	4-6	0.06			
RC97-1673	6-8	<0.02			
RC97-1673	8-10	<0.02			
RC97-1673	10-12	<0.02			
RC97-1673	12-14	<0.02			
RC97-1673	14-16	<0.02			
RC97-1673	16-18	0.03			
RC97-1673	18-20	<0.02			
RC97-1673	20-22	<0.02			
RC97-1673	22-24	0.04			
RC97-1673	24-26	<0.02			
RC97-1673	26-28	0.03			
RC97-1673	28-30	0.03			
RC97-1673	30-32	0.09			
RC97-1673	32-34	<0.02			
RC97-1673	34-36	<0.02			
RC97-1673	36-38	<0.02			
RC97-1673	38-40	0.05			
RC97-1673	40-42	0.14			
RC97-1674	0-2	0.07			
RC97-1674	2-4	0.03			
RC97-1674	4-6	0.04			
RC97-1674	6-8	0.04			

RC97-1674	8-10	0.04
RC97-1674	10-12	0.03
RC97-1674	12-14	0.03
RC97-1674	14-16	0.03
RC97-1674	16-18	0.04
RC97-1674	18-20	0.03
RC97-1674	20-22	0.04
RC97-1674	22-24	0.02
RC97-1674	24-26	0.03
RC97-1674	26-28	<0.02
RC97-1674	28-30	0.02
RC97-1674	30-32	0.04
RC97-1674	32-34	0.02
RC97-1674	34-36	0.04
RC97-1674	36-38	0.04
RC97-1674	38-40	0.03
RC97-1674	40-42	0.04
RC97-1674	42-44	0.6
RC97-1674	44-46	0.11
RC97-1674	46-48	0.09
RC97-1674	48-50	0.08
RC97-1675	0-2	0.10
RC97-1675	2-4	0.11
RC97-1675	4-6	0.07
RC97-1675	6-8	0.42
RC97-1675	8-10	0.13
RC97-1675	10-12	0.08
RC97-1675	12-14	0.03
RC97-1675	14-16	0.03
RC97-1675	16-18	0.06
RC97-1675	18-20	0.09
RC97-1675	20-22	0.15
RC97-1675	22-24	0.11
RC97-1675	24-26	0.10
RC97-1675	26-28	0.02
RC97-1675	28-30	0.05
RC97-1675	30-32	<0.02
RC97-1675	32-34	<0.02
RC97-1675	34-36	0.04
RC97-1675	36-38	0.06
RC97-1675	38-40	<0.02
RC97-1675	40-42	0.13
RC97-1675	42-44	0.08
RC97-1675	44-46	0.06
RC97-1675	46-48	0.03
RC97-1675	48-50	0.07

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC-97

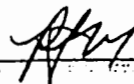
1676

DATE Mar 27/87

	SAMPLE #	Au g/t
1	0-2	0.05
2	2-4	0.02
3	4-6	0.02
4	6-8	0.02
5	8-10	0.13
6	10-12	0.04
7	12-14	<0.02
8	14-16	}
9	16-18	
10	18-20	
11	20-22	
12	22-24	0.03
13	24-26	<0.02
14	26-28	0.02
15	28-30	0.05
16	30-32	<0.02
17	32-34	<0.02
18	34-36	0.03
19	36-38	<0.02
20	38-40	<0.02
21	40-42	<0.02
22		

	SAMPLE #	Au g/t
23	42-44	<0.02
24	44-46	<0.02
25	46-48	0.04
26	48-50	<0.02
27	EOH	
28		
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SUPERVISOR



VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 97 1677

DATE Mar 27/97

	SAMPLE #	Au g/t
1	0-2	0.02
2	2-4	<0.02
3	4-6	0.02
4	6-8	0.03
5	8-10	0.08
6	10-12	0.06
7	12-14	0.08
8	14-16	0.04
9	14-16 D	0.05
10	16-18	0.06
11	18-20	0.08
12	20-22	0.07
13	22-24	0.07
14	24-26	0.06
15	26-28	0.03
16	28-30	0.09
17	30-32	0.03
18	32-34	0.04
19	34-36	<0.02
20	36-38	0.02
21	38-40	0.04
22	40-42	0.02

	SAMPLE #	Au g/t
23	42-44	0.02
24	44-46	0.03
25	46-48	0.03
26	48-50	0.06
27	E04	
28		
29		
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31		
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SUPERVISOR



VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 97 1678

DATE Mar 27/97

	SAMPLE #	Au g/t
1	0-2	0.81
2	2-4	0.56
3	4-6	2.13
4	6-8	1.26
5	8-10	1.42
6	10-12	1.60
7	12-14	0.12
8	14-16	0.05
9	16-18	0.07
10	16-18 0	0.04
11	18-20	0.06
12	20-22	0.03
13	22-24	0.03
14	24-26	0.07
15	26-28	0.03
16	28-30	0.04
17	30-32	0.04
18	32-34	To Follow ^{0.03}
19	34-36	0.02
20	36-38	40.02
21	38-40	0.02
22	40-42	0.02

	SAMPLE #	Au g/t
23	42-44	0.03
24	44-46	0.04
25	EOH	
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
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SUPERVISOR _____

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 97

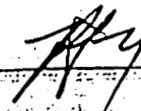
1679

DATE Mar 27/97

	SAMPLE #	Au g/t
1	0-2	0.07
2	2-4	0.04
3	4-6	0.02
4	6-8	0.05
5	8-10	0.03
6	10-12	0.07
7	12-14	0.02
8	14-16	0.02
9	16-18	0.02
10	18-20	0.03
11	18-20.0	0.02
12	20-22	<0.02
13	22-24	<0.02
14	24-26	<0.02
15	26-28	<0.02
16	28-30	<0.02
17	30-32	0.02
18	32-34	0.05
19	34-36	0.02
20	36-38	<0.02
21	38-40	<0.02
22	40-42	0.03

	SAMPLE #	Au g/t
23	42-44	0.02
24	44-46	0.03
25	46-48	0.04
26	48-50	0.02
27	50-52	0.05
28	52-54	<0.02
29	54-56	<0.02
30	56-58	<0.02
31	58-60	<0.02
32	EOH	
33		
34		
35		
36		
37		
38		
39		
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41		
42		
43		
44		

SUPERVISOR



VICEROY BREWERY CREEK OPERATION

F.A. WORK SHEET

DATE: ~~22~~ April 1/97

R.C 97-1680

TRAY NUMBER: _____

TRAY NUMBER: _____

	SAMPLE	Au/l
1	0-2	0.16
2	2-4	0.28
3	4-6	0.14
4	6-8	0.09
5	8-10	0.09
6	10-12	0.04
7	12-14	0.07
8	12-14 P	0.06
9	14-16	0.07
10	16-18	0.03
11	18-20	0.02
12	20-22	0.02
13	22-24	0.03
14	24-26	0.02
15	26-28	0.04
16	28-30	0.03
17	30-32	0.02
18	32-34	0.02
19	34-36	0.03
20	36-38	0.02
21	38-40	0.05
22	40-42	0.04
	42-44	0.04

	SAMPLE	Au/l
1	44-46	0.04
2	46-48	0.05
3	48-50	0.05
4	50-52	0.04
5	52-54	0.05
6	54-56	0.06
7	56-58	0.06
8	58-60	0.04
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Am

VICEROY BREWERY CREEK OPERATION

F.A. WORK SHEET

DATE: April 1977

RC-97 - 1681

TRAY NUMBER: _____

TRAY NUMBER: _____

	SAMPLE	Au/t
1	0-2	0.08
2	2-4	0.14
3	4-6	0.04
4	6-8	0.08
5	8-10	0.74
6	10-12	2.63
7	12-14	0.63
8	14-16	0.31
9	14-16 D	0.27
10	16-18	0.15
11	18-20	0.18
12	20-22	0.09
13	22-24	0.02
14	24-26	0.02
15	26-28	0.03
16	28-30	0.78
17	30-32	1.83
18	32-34	0.18
19	34-36	0.40
20	36-38	1.73
21	38-40	0.09
22	40-42	0.10
23	42-44	0.10

	SAMPLE	Au/t
1	44-46	0.08
2	46-48	0.03
3	48-50	0.05
4	50-52	0.31
5	52-54	0.04
6	54-56	0.33
7	56-58	0.32
8	58-60	1.09
9	60-62	0.58
10	62-64	0.26
11	64-66	0.50
12	66-68	0.27
13	68-70	0.21
14	E O H	
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F.A.: ABY

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 97 - 1682DATE April 1, 197

	SAMPLE #	Au g/t
1	0 - 2	0.10
2	2 - 4	0.08
3	4 - 6	0.03
4	6 - 8	0.08
5	8 - 10	0.10
6	10 - 12	TO FOLLOW ^{0.21}
7	12 - 14	0.32
8	14 - 16	0.05
9	16 - 18	0.05
10	18 - 20	0.04
11	20 - 22	0.02
12	22 - 24	0.04
13	24 - 26	0.08
14	26 - 28	0.07
15	28 - 30	0.05
16	30 - 32	TO FOLLOW [?]
17	32 - 34	0.02
18	34 - 36	0.03
19	36 - 38	<0.02
20	38 - 40	0.02
21	40 - 42	0.05
22	42 - 44	0.04

	SAMPLE #	Au g/t
23	44 - 46	0.02
24	46 - 48	<0.02
25	48 - 50	0.07
26	50 - 52	0.13
27	52 - 54	0.07
28	54 - 56	0.29
29	56 - 58	0.28
30	58 - 60	0.08
31	60 - 62	0.24
32	62 - 64	0.08
33	64 - 66	0.15
34	66 - 68	<0.02
35	68 - 70	0.04
36	70 - 72	TO FOLLOW ^{0.04}
37	72 - 74	<0.02
38	74 - 76	<0.02
39	76 - 78 ⁺	0.03
40	78 - 80	0.03
41	80 - 82	<0.02
42	82 - 84	1.65
43	84 - 86	1.24
44	86 - 88	0.03

SUPERVISOR



VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 97 - 1682

DATE April 1/97

	SAMPLE #	Au g/t
1	88-90	0.03
2	90-92	0.10
3	92-94	0.26
4	94-96	0.52
5	96-98	2.37
6	98-100	3.03
7	100-102	0.05
8	102-104	40.02
9	104-106	0.99
10	106-108	0.32
11	108-110	0.08
12	110-112	0.02
13	112-114	0.04
14	114-116	0.03
15	116-118	0.07
16	118-120	0.02
17	120-122	<0.02
18	122-124	<0.02
19	124-126	0.02
20	126-128	0.02
21	128-130	0.06
22	130-132	<0.02

	SAMPLE #	Au g/t
23	132-134	0.04
24	134-136	0.04
25	136-138	0.04
26	138-140	0.03
27		
28		
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SUPERVISOR ALM

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 97 - 1683

DATE April 1/97

	SAMPLE #	Au g/t
1	0 - 2	0.03
2	2 - 4	0.02
3	4 - 6	<0.02
4	6 - 8	
5	8 - 10	
6	10 - 12	
7	12 - 14	
8	14 - 16	
9	16 - 18	
10	18 - 20	
11	18 - 20 D	
12	20 - 22	
13	22 - 24	<0.02
14	24 - 26	0.02
15	26 - 28	<0.02
16	28 - 30	0.04
17	30 - 32	<0.02
18	32 - 34	0.05
19	34 - 36	<0.02
20	36 - 38	0.03
21	38 - 40	0.07
22	40 - 42	0.29

	SAMPLE #	Au g/t
23	42 - 44	0.07
24	44 - 46	0.03
25	46 - 48	0.07
26	48 - 50	0.11
27	50 - 52	0.08
28	52 - 54	0.04
29	54 - 56	0.02
30	56 - 58	0.18
31	58 - 60	0.05
32	60 - 62	0.03
33	62 - 64	0.04
34	64 - 66	0.03
35	66 - 68	0.05
36	68 - 70	0.05
37	70 - 72	0.04
38	72 - 74	0.05
39	74 - 76	0.05
40	76 - 78	0.03
41	78 - 80	0.06
42	80 - 82	0.06
43	82 - 84	0.05
44	84 - 86	0.07

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VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES

RC 97 - 1683

DATE

April 1/97

	SAMPLE #	Au g/t
1	86-88	0.07
2	88-90	0.08
3	90-92	0.02
4	92-94	0.06
5	94-96	0.06
6	96-98	0.02
7	98-100	0.02
8	100-102	0.02
9	102-104	0.03
10	104-106	0.02
11	106-108	0.05
12	108-110	0.08
13	110-112	0.05
14	112-114	<0.02
15	114-116	<0.02
16	116-118	0.05
17	118-120	0.05
18	120-122	0.02
19	122-124	<0.02
20	124-126	<0.02
21	126-128	<0.02
22	128-130	<0.02

	SAMPLE #	Au g/t
23	130-132	<0.02
24	132-134	0.80
25	134-136	0.04
26	136-138	0.23
27	138-140	<0.02
28	140-142	0.06
29	142-144	0.05
30	144-146	<0.02
31	146-148	0.05
32	148-150	0.02
33	150-152	<0.02
34	152-154	0.03
35	154-156	0.28
36	156-158	0.05
37	158-160	0.04
38	160-162	0.04
39	162-164	0.22
40	164-166	0.14
41	166-168	0.03
42	168-170	<0.02
43	170-172	0.21
44	172-174	0.04

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VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES

RC 97 1683

DATE

April 1/97

	SAMPLE #	Au g/t
1	174 - 176	0.62
2	176 - 178	0.58
3	178 - 180	0.36
4	180 - 182	40.02
5	182 - 184	0.05
6	184 - 186	0.02
7	186 - 188	0.02
8	188 - 190	0.02
9	E0H	
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20		
21		
22		

	SAMPLE #	Au g/t
23		
24		
25		
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28		
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SUPERVISOR

AKM

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES

RC 97

16841

DATE

April 1/97

	SAMPLE #	Au g/t
1	0 - 2	0.03
2	2 - 4	0.02
3	4 - 6	0.04
4	6 - 8	0.03
5	8 - 10	0.03
6	10 - 12	0.03
7	12 - 14	<0.02
8	12 - 14 D	<0.02
9	14 - 16	0.03
10	16 - 18	0.05
11	18 - 20	0.02
12	20 - 22	0.02
13	22 - 24	0.03
14	24 - 26	0.04
15	26 - 28	0.02
16	28 - 30	0.02
17	30 - 32	0.03
18	32 - 34	0.03
19	34 - 36	0.02
20	36 - 38	0.02
21	38 - 40	0.03
22	40 - 42	0.06

	SAMPLE #	Au g/t
23	42 - 44	0.03
24	44 - 46	0.14
25	46 - 48	0.08 To Follow
26	48 - 50	0.03
27	50 - 52	<0.02
28	52 - 54	<0.02
29	54 - 56	<0.02
30	56 - 58	<0.02
31	58 - 60	<0.02 To Follow
32	60 - 62	<0.02 To Follow
33	62 - 64	<0.02
34	64 - 68	0.07 To Follow
35	66 - 68	<0.02 To Follow
36	68 - 70	<0.02 To Follow
37	70 - 72	<0.02
38	72 - 74	<0.02
39	74 - 76	<0.02
40	76 - 78	0.02
41		
42		
43		
44		

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AM

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC-97 - 1684

DATE ~~4/10~~ April 2/97

	SAMPLE #	Au g/t
1	78 - 80	0.03
2	80 - 82	0.03
3	82 - 84	To SD 0.02 FOLLOW ^{0.09}
4	84 - 86	<0.02
5	86 - 88	0.06
6	88 - 90	0.05
7	90 - 92	0.06
8	92 - 94	0.04
9	94 - 96	0.05
10	96 - 98	0.19
11	98 - 100	<0.02
12	100 - 102	0.02
13	102 - 104	0.04
14	104 - 106	<0.02
15	106 - 108	0.04
16	108 - 110	<0.02
17	110 - 112	0.15
18	112 - 114	0.06
19	114 - 116	<0.02
20	116 - 118	<0.02
21	118 - 120	0.03
22	120 - 122	<0.02

	SAMPLE #	Au g/t
23	122 - 124	<0.02
24	124 - 126	<0.02
25	126 - 128	<0.02
26	128 - 130	0.40
27	130 - 132	0.28
28	132 - 134	<0.02
29	134 - 136	0.42
30	136 - 138	To FOLLOW ^{3.61}
31	138 - 140	0.03
32	140 - 142	0.33
33	142 - 144	0.13
34	144 - 146	0.10
35	146 - 148	0.43
36	148 - 150	0.60
37	150 - 152	0.09
38	150 - 152 D	0.11
39	152 - 154 ^f	0.18
40	154 - 156	0.51
41	156 - 158	0.43
42	158 - 160	0.07
43	160 - 162	0.12
44	162 - 164	0.03

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VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC-97 1684

DATE _____

	SAMPLE #	Au g/t
1	164 - 166	0.65
2	166 - 168	0.05
3	168 - 170	0.08
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

	SAMPLE #	Au g/t
23		
24		
25		
26		
27		
28		
29		
30		
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33		
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36		
37		
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SUPERVISOR AM

EXPLORATION
PNS-2

VICEROY BREWERY CREEK MINE
FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 97 - 1684

DATE April 2/97

	SAMPLE #	Au g/t
1	170 - 172	0.04
2	172 - 174	0.05
3	174 - 176	0.03
4	176 - 178	0.10
5	178 - 180	0.08
6	180 - 182	0.06
7	182 - 184	0.18
8	184 - 186	0.04
9	186 - 188	0.02
10	188 - 190	0.02
11	190 - 192	0.03
12	192 - 194	0.65
13	194 - 196	0.27
14	196 - 198	0.62
15	198 - 200	0.03
16	200 - 204	<0.02
17	204 - 206	0.04
18	206 - 208	0.06
19	208 - 210	0.03
20	210 - 212	0.62
21	212 - 214	0.15
22	214 - 216	0.09

	SAMPLE #	Au g/t
23	216 - 218	0.11
24	218 - 220	0.21
25	220 - 222	0.89
26	222 - 224	0.04
27	224 - 226	0.04
28	226 - 228	0.04
29		
30		
31	82 - 84	<0.02
32		
33		
34		
35		
36		
37		
38		
39		
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43		
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VICEROY BREWERY CREEK MINE
FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 1684

DATE Apr 29/97

Handwritten: 1684 RC 1684
1684 RC 1684

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values
10.02

Handwritten: (4.03)

	SAMPLE #	Au g/t
1	1684-82-84	.09
2		
3	1684-136 to 138 1 of 2	3.82
4	136 to 138 2 of 2	3.40
5		
6		
7		
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9		
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14		
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16		
17		
18		
19		
20		
21		
22		

	SAMPLE #	Au g/t
23		
24		
25		
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SUPERVISOR _____

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES

RC 97 - 1734

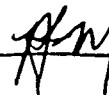
DATE

April 15/97

	SAMPLE #	Au g/t
1	0-2	0.12
2	2-4	0.09
3	4-6	0.09
4	6-8	0.05
5	8-10	0.16
6	10-12	0.03
7	12-14	0.05
8	14-16	0.19
9	16-18	0.05
10	16-18 D	0.04
11	18-20	0.37
12	20-22	0.27
13	22-24	0.14
14	24-26	0.04
15	26-28	0.02
16	28-30	<0.02
17	30-32	4.69 TO FOLLOW
18	32-34	0.62 TO FOLLOW
19	34-36	0.06
20	36-38	0.12
21	38-40	0.09
22	40-42	0.05

	SAMPLE #	Au g/t
23	42-44	0.06
24	44-46	0.10
25	46-48	0.23
26	48-50	0.24
27	50-52	1.55
28	52-54	1.07
29	54-56	0.15
30	56-58	<0.02
31	58-60	0.16
32	60-62	0.59
33	62-64	2.29
34	64-66	0.13
35	66-68	0.07
36	68-70	0.04
37	70-72	0.06
38	72-74	0.13
39	74-76	<0.02
40	76-78	0.05
41	78-80	0.09
42	80-82	0.05
43	82-84	0.02
44	84-86	0.09

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VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC97 - 1734

DATE April 15/97

	SAMPLE #	Au g/t
1	86-88	0.17
2	88-90	0.05
3	90-92	0.06
4	92-94	0.08
5	94-96	0.11
6	96-98	0.19
7	98-100	0.04
8	100-102	0.03
9	102-104	0.08
10	104-106	0.05
11	106-108	0.10
12	E0H	
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14		
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22		

	SAMPLE #	Au g/t
23		
24		
25		
26		
27		
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SUPERVISOR

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VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC97 (Missing Assays)

DATE MAY 3/97

	SAMPLE #	Au g/t
1	1684 200-202	.02 ✓
2	1715 20-22	1.86 ✓
3	1727 40-42	.03 ✓
4	1727 42-44	.09 ✓
5	1731 38-40	.22 ✓
6	1734 30-32	4.59 ✓
7	1734 32-34	.62 ✓
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

	SAMPLE #	Au g/t
23		
24		
25		
26		
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RC97-1672

4-6 - 0.01

SUPERVISOR



VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC97 - 1735

DATE April 24/97

	SAMPLE #	Au g/t
1	0-2	0.29
2	2-4	0.26
3	4-6	0.24
4	6-8	0.11
5	8-10	0.10
6	10-12	0.05
7	12-14	0.03
8	14-16	0.02
9	16-18	0.07
10	18-20	0.03
11	20-22	<0.02
12	22-24	<0.02
13	24-26	0.03
14	26-28	0.03
15	28-30	0.41
16	30-32	0.09
17	32-34	<0.02
18	34-36	0.02
19	36-38	<0.02
20	38-40	0.02
21	40-42	0.08
22	42-44	0.27

	SAMPLE #	Au g/t
23	44-46	0.16
24	46-48	0.64
25	48-50	0.21
26	50-52	0.08
27	52-54	0.36
28	54-56	0.04
29	56-58	0.88
30	58-60	2.38
31	60-62	2.38
32	62-64	1.67
33	64-66	0.52
34	66-68	0.03
35	68-70	<0.02
36	70-72	<0.02
37	72-74	0.02
38	74-76	0.02
39	76-78	<0.02
40	78-80	<0.02
41	E04	
42		
43		
44		

SUPERVISOR



VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 97 1736

DATE April 19/97

	SAMPLE #	Au g/t
1	0-2	.22
2	2-4	.09
3	4-6	.08
4	6-8	.06
5	8-10	.07
6	10-12	.17
7	12-14	.02
8	12-140	.02
9	14-16	.04
10	16-18	.04
11	18-20	.06
12	20-22	.04
13	22-24	.01
14	24-26	.02
15	26-28	.04
16	28-30	.04
17	30-32	.10
18	32-34	.05
19	34-36	.13
20	36-38	.10
21	38-40	.07
22	40-42	.04

	SAMPLE #	Au g/t
23	42-44	.04
24	44-46	.01
25	46-48	.01
26	48-50	.01
27	50-52	.03
28	52-54	.07
29	54-56	.03
30	56-58	.06
31	58-60	.04
32	60-62	.02
33	62-64	.04
34	64-66	.10
35	66-68	.15
36	68-70	.10
37	70-72	.13
38	72-74	.58
39	74-76	2.12
40	76-78	.73
41	78-80	.17
42	80-82	.12
43	82-84	2.02
44		E.O.H.

SUPERVISOR 

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 97

DATE April 25/97

	SAMPLE #	Au g/t
1	1730 40-42	0.08
2	46-48	2.85
3		
4	1733 12-14	2.45
5		
6	1735 58-60	2.38
7		
8		
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22		

	SAMPLE #	Au g/t
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44		

SUPERVISOR



VICEROY BREWERY CREEK MINE

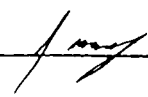
FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 97 1737

DATE April 18/97

	SAMPLE #	Au g/t
1	0-2	.08
2	2-4	.04
3	4-6	.06
4	6-8	.09
5	8-10	.13
6	10-12	.08
7	12-14	.02
8	14-16	.04
9	16-18	.05
10	18-20	.02
11	20-22	.02
12	22-24	.05
13	24-26	.02
14	26-28	.11
15	28-30	.03
16	30-32	.02
17	32-34	.05
18	34-36	.06
19	36-38	.12
20	38-40	.07
21	40-42	.54
22	42-44	.32

	SAMPLE #	Au g/t
23	44-46	.30
24	46-48	.09
25	48-50	.13
26	50-52	.10
27	52-54	.07
28	54-56	.09
29	56-58	.13
30	58-60	.14
31	60-62	.35
32	62-64	.77
33	64-66	.17
34	66-68	.47
35	68-70	.37
36	70-72	.19
37	72-74	.13
38	74-76	.11
39	76-78	.21
40	78-80	.04
41	14-16n	.06
42	E.O.H.	
43		
44		

SUPERVISOR 

VICEROY BREWERY CREEK MINE

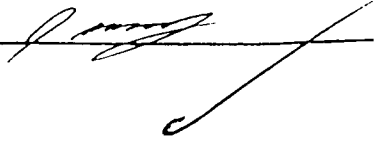
FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC97 1738

DATE April 19/97

	SAMPLE #	Au g/t
1	0-2	.15
2	2-4	.48
3	4-6	.64
4	6-8	.10
5	8-10	.09
6	10-12	.31
7	12-14	.63
8	14-16	.36
9	16-18	.45
10	16-180	.45
11	18-20	.30
12	20-22	.08
13	22-24	.12
14	24-26	.25
15	26-28	.09
16	28-30	.03
17	30-32	<.02
18	32-34	<.02
19	34-36	.09
20	36-38	.07
21	38-40	.05
22	40-42	.05

	SAMPLE #	Au g/t
23	42-44	.05
24	44-46	.06
25	46-48	.05
28	48-50	.04
27	50-52	.06
28	52-54	.04
29	54-56	.06
30	56-58	.05
31	58-60	.09
32	E.O.H.	
33		
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44		

SUPERVISOR 

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC97 1739

DATE April 19, 97

	SAMPLE #	Au g/t
1	0-2	.08
2	2-4	.06
3	4-6	.05
4	6-8	.03
5	8-10	.08
6	10-12	.83
7	12-14	.82
8	14-16	.62
9	16-18	.10
10	18-20	.08
11	18-20 D	.07
12	20-22	.23
13	22-24	.14
14	24-26	.17
15	26-28	.17
16	28-30	.10
17	30-32	.03
18	32-34	.07
19	34-36	.05
20	36-38	.06
21	38-40	.05
22	40-42	.06

	SAMPLE #	Au g/t
23	42-44	.06
24	44-46	.26
25	46-48	.12
26	48-50	.08
27	50-52	.03
28	52-54	.04
29	54-56	.03
30		
31		
32		
33		
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41		
42		
43		
44		

SUPERVISOR _____

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC97 - 1739

DATE April 25/97

	SAMPLE #	Au g/t
1	56-58	0.03
2	58-60	0.60
3	EOH	
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

	SAMPLE #	Au g/t
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

SUPERVISOR AM



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Analytical Chemists * Geochemists * Registered Assayers

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

VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: NONE
Comments: ATTN:RICK DIMENT

Page : 1
Total F : 1
Certificate Date: 27-JUL-97
Invoice No. : 19732892
P.O. Number : NONE
Account : LDS

CERTIFICATE OF ANALYSIS

A9732892

SAMPLE	PREP CODE	Au ppb FA+AA									
1769-8-10	1388 --	1325									
1769-10-12	1388 --	1600									
1769-12-14	1388 --	925									
1769-14-16	1388 --	910									
1769-16-18	1388 --	330									
1770-22-24	1388 --	505									
1770-26-28	1388 --	4280									
1770-28-30	1388 --	1480									
1770-30-32	1388 --	815									
1770-32-34	1388 --	300									
1770-42-44	1388 --	2340									
1771-26-28	1388 --	500									
1771-28-30	1388 --	1560									
1771-42-44	1388 --	360									
1771-46-48	1388 --	365									
1771-50-52	1388 --	810									
1771-52-54	1388 --	1840									
1771-54-56	1388 --	7720									
1771-56-58	1388 --	750									
1771-58-60	1388 --	460									
1772-30-32	1388 --	4440									
1772-32-34	1388 --	695									
1772-34-36	1388 --	3120									
1773-18-20	1388 --	330									
1773-20-22	1388 --	505									
1773-26-28	1388 --	2820									
1773-28-30	1388 --	810									
1773-34-36	1388 --	635									
1773-50-52	1388 --	465									
1773-52-54	1388 --	785									
1773-54-56	1388 --	1210									
1774-18-20	1388 --	490									
1774-50-52	1388 --	380									
1774-142-144	1388 --	285									
1774-144-146	1388 --	20									
1774-172-174	1388 --	10									
1774-174-176	1388 --	245									
1774-176-178	1388 --	505									
1774-178-180	1388 --	660									
1774-180-182	1388 --	350									

CERTIFICATION:

Handwritten signature



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 British Columbia, Canada V7J 2C1
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: 278,RC97-1910
 Comments: ATTN: RICK DIMENT

Page: 1
 Total P: 1
 Certificate No: 10-AUG-97
 Invoice No.: 19735937
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS

A9735937

SAMPLE	PREP CODE	Au g/t FA+AA										
RC97-1910 12-14	217 --	0.010										
RC97-1910 14-16	217 --	0.010										
RC97-1910 16-18	217 --	< 0.005										
RC97-1910 18-20	217 --	0.160										
RC97-1910 20-22	217 --	0.110										
RC97-1910 22-24	217 --	0.245										
RC97-1910 24-26	217 --	0.225										
RC97-1910 26-28	217 --	0.180										
RC97-1910 28-30	217 --	< 0.005										
RC97-1910 30-32	217 --	< 0.005										
RC97-1910 32-34	217 --	< 0.005										
RC97-1910 34-36	217 --	< 0.005										
RC97-1910 36-38	217 --	< 0.005										
RC97-1910 38-40	217 --	< 0.005										
RC97-1910 40-42	217 --	< 0.005										
RC97-1910 42-44	217 --	< 0.005										
RC97-1910 44-46	217 --	< 0.005										
RC97-1910 46-48	217 --	< 0.005										
RC97-1910 48-50	217 --	< 0.005										
RC97-1910 50-52	217 --	< 0.005										
RC97-1910 52-54	217 --	< 0.005										
RC97-1910 54-56	217 --	< 0.005										
RC97-1910 56-58	217 --	< 0.005										
RC97-1910 58-60	217 --	< 0.005										
RC97-1910 60-62	217 --	< 0.005										
RC97-1910 62-64	217 --	0.010										
RC97-1910 64-66	217 --	0.005										
RC97-1910 66-68	217 --	< 0.005										
RC97-1910 68-70	217 --	< 0.005										
RC97-1910 70-72	217 --	< 0.005										

CERTIFICATION:



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British Columbia, Canada V7J 2C1
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: 278,97-1911
Comments: ATTN: RICK DIMENT

Total F : 1
Certificate No. : 2
Date: 12-AUG-97
Invoice No. : 19735960
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9735960

SAMPLE	PREP CODE	Au g/t FA+AA										
RC97-1911 06-08	217 --	0.300										
RC97-1911 08-10	217 --	5.72										
RC97-1911 10-12	217 --	0.440										
RC97-1911 12-14	217 --	0.150										
RC97-1911 14-16	217 --	0.030										
RC97-1911 16-18	217 --	0.035										
RC97-1911 18-20	217 --	0.085										
RC97-1911 20-22	217 --	0.955										
RC97-1911 22-24	217 --	0.095										
RC97-1911 24-26	217 --	0.015										
RC97-1911 26-28	217 --	< 0.005										
RC97-1911 28-30	217 --	< 0.005										
RC97-1911 30-32	217 --	< 0.005										
RC97-1911 32-34	217 --	< 0.005										
RC97-1911 34-36	217 --	< 0.005										
RC97-1911 36-38	217 --	0.005										
RC97-1911 38-40	217 --	< 0.005										
RC97-1911 40-42	217 --	< 0.005										
RC97-1911 42-44	217 --	< 0.005										
RC97-1911 44-46	217 --	< 0.005										
RC97-1911 46-48	217 --	< 0.005										
RC97-1911 48-50	217 --	0.020										
RC97-1911 50-52	217 --	0.005										
RC97-1911 52-54	217 --	< 0.005										
RC97-1911 54-56	217 --	< 0.005										
RC97-1911 56-58	217 --	< 0.005										
RC97-1911 58-60	217 --	< 0.005										
RC97-1911 60-62	217 --	< 0.005										
RC97-1911 62-64	217 --	< 0.005										
RC97-1911 64-66	217 --	< 0.005										
RC97-1911 66-68	217 --	0.010										
RC97-1911 68-70	217 --	0.010										
RC97-1911 70-72	217 --	0.010										
RC97-1911 72-74	217 --	0.020										
RC97-1911 74-76	217 --	0.010										
RC97-1911 76-78	217 --	< 0.005										
RC97-1911 78-80	217 --	0.005										
RC97-1911 80-82	217 --	0.110										
RC97-1911 82-84	217 --	0.620										
RC97-1911 84-86	217 --	0.030										

CERTIFICATION: *Rick Diment*



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : 278,97-1911
Comments: ATTN: RICK DIMENT

P. : 2
Total F : 2
Certific. : 12-AUG-97
Invoice No. : I9735960
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9735960

SAMPLE	PREP CODE		Au g/t FA+AA									
RC97-1911 86-88 RC97-1911 88-90	217	--	0.050									
	217	--	0.060									

CERTIFICATION: *Steve Vank*



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: RC97-1912
Comments: ATTN: RICK DIMENT

Page: 1
Total P: 1
Certif: 10-AUG-97
Invoice No.: 19735961
P.O. Number:
Account: OQN

CERTIFICATE OF ANALYSIS

A9735961

SAMPLE	PREP CODE	Au g/t FA+AA									
RC97-1912 11-12	217 --	0.060									
RC97-1912 12-14	217 --	0.060									
RC97-1912 14-16	217 --	0.035									
RC97-1912 16-18	217 --	0.020									
RC97-1912 18-20	217 --	0.010									
RC97-1912 20-22	217 --	< 0.005									
RC97-1912 22-24	217 --	0.005									
RC97-1912 24-26	217 --	0.020									
RC97-1912 26-28	217 --	0.030									
RC97-1912 28-30	217 --	0.050									
RC97-1912 30-32	217 --	0.010									
RC97-1912 32-34	217 --	< 0.005									
RC97-1912 34-36	217 --	< 0.005									
RC97-1912 36-38	217 --	< 0.005									
RC97-1912 38-40	217 --	< 0.005									
RC97-1912 40-42	217 --	< 0.005									
RC97-1912 42-44	217 --	< 0.005									
RC97-1912 44-46	217 --	< 0.005									
RC97-1912 46-48	217 --	< 0.005									
RC97-1912 48-50	217 --	< 0.005									
RC97-1912 50-52	217 --	< 0.005									
RC97-1912 52-54	217 --	< 0.005									
RC97-1912 54-56	217 --	< 0.005									
RC97-1912 56-58	217 --	0.015									
RC97-1912 58-60	217 --	< 0.005									

CERTIFICATION:

Rick Diment



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : 278,RC97-1913
Comments: ATTN: RICK DIMENT

P. : 1
Total F : 1
Certific. Date: 10-AUG-97
Invoice No. : 19735948
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9735948

SAMPLE	PREP CODE	Au g/t FA+AA										
RC97-1913 04-06	217 --	0.045										
RC97-1913 06-08	217 --	0.025										
RC97-1913 08-10	217 --	0.010										
RC97-1913 10-12	217 --	< 0.005										
RC97-1913 12-14	217 --	< 0.005										
RC97-1913 14-16	217 --	< 0.005										
RC97-1913 16-18	217 --	< 0.005										
RC97-1913 18-20	217 --	< 0.005										
RC97-1913 20-22	217 --	< 0.005										
RC97-1913 22-24	217 --	< 0.005										
RC97-1913 24-26	217 --	< 0.005										
RC97-1913 26-28	217 --	< 0.005										
RC97-1913 28-30	217 --	0.035										
RC97-1913 30-32	217 --	0.285										
RC97-1913 32-34	217 --	0.790										
RC97-1913 34-36	217 --	0.015										
RC97-1913 36-38	217 --	0.010										
RC97-1913 38-40	217 --	0.010										
RC97-1913 40-42	217 --	0.010										
RC97-1913 42-44	217 --	0.010										
RC97-1913 44-46	217 --	0.010										
RC97-1913 46-48	217 --	< 0.005										

CERTIFICATION:

Mark Vink



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : 278,RC97-1914
Comments: ATTN: RICK DIMENT

P. : 1
Total P : 1
Certificate No.: 12-AUG-97
Invoice No. : 19735947
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9735947

SAMPLE	PREP CODE	Au g/t FA+AA										
RC97-1914 10-12	217 --	0.150										
RC97-1914 12-14	217 --	0.050										
RC97-1914 14-16	217 --	0.910										
RC97-1914 16-18	217 --	0.040										
RC97-1914 18-20	217 --	0.140										
RC97-1914 20-22	217 --	0.150										
RC97-1914 22-24	217 --	0.120										
RC97-1914 24-26	217 --	0.020										
RC97-1914 26-28	217 --	1.440										
RC97-1914 28-30	217 --	0.010										
RC97-1914 30-32	217 --	0.010										
RC97-1914 32-34	217 --	0.010										
RC97-1914 34-36	217 --	0.010										
RC97-1914 36-38	217 --	< 0.005										
RC97-1914 38-40	217 --	< 0.005										
RC97-1914 40-42	217 --	0.005										
RC97-1914 42-44	217 --	0.005										
RC97-1914 44-46	217 --	0.030										
RC97-1914 46-48	217 --	< 0.005										
RC97-1914 48-50	217 --	0.030										

CERTIFICATION: *Rick Diment*



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: 278,RC97-1915
 Comments: ATTN: RICK DIMENT

P. :1
 Total P :2
 Certificate No.: 12-AUG-97
 Invoice No. :19735946
 P.O. Number :
 Account :OQN

CERTIFICATE OF ANALYSIS

A9735946

SAMPLE	PREP CODE	Au g/t FA+AA										
RC971915 010-012	217 --	0.260										
RC971915 012-014	217 --	0.030										
RC971915 014-016	217 --	0.060										
RC971915 016-018	217 --	0.070										
RC971915 018-020	217 --	0.060										
RC971915 020-022	217 --	0.010										
RC971915 022-024	217 --	0.005										
RC971915 024-026	217 --	< 0.005										
RC971915 026-028	217 --	< 0.005										
RC971915 028-030	217 --	< 0.005										
RC971915 030-032	217 --	< 0.005										
RC971915 032-034	217 --	0.010										
RC971915 034-036	217 --	0.060										
RC971915 036-038	217 --	0.035										
RC971915 038-040	217 --	0.100										
RC971915 040-042	217 --	0.125										
RC971915 042-044	217 --	< 0.005										
RC971915 044-046	217 --	< 0.005										
RC971915 046-048	217 --	0.080										
RC971915 048-050	217 --	0.225										
RC971915 050-052	217 --	0.055										
RC971915 052-054	217 --	0.180										
RC971915 054-056	217 --	0.470										
RC971915 056-058	217 --	0.320										
RC971915 058-060	217 --	0.030										
RC971915 060-062	217 --	0.010										
RC971915 062-064	217 --	< 0.005										
RC971915 064-066	217 --	< 0.005										
RC971915 066-068	217 --	0.015										
RC971915 068-070	217 --	< 0.005										
RC971915 070-072	217 --	< 0.005										
RC971915 072-074	217 --	0.015										
RC971915 074-076	217 --	0.080										
RC971915 076-078	217 --	< 0.005										
RC971915 078-080	217 --	0.045										
RC971915 080-082	217 --	< 0.005										
RC971915 082-084	217 --	< 0.005										
RC971915 084-086	217 --	< 0.005										
RC971915 086-088	217 --	< 0.005										
RC971915 088-090	217 --	< 0.005										

CERTIFICATION: *Theresa Vank*



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: 278,RC97-1915
Comments: ATTN: RICK DIMENT

P. : 2
Total P. : 2
Certificate Date: 12-AUG-97
Invoice No. : 19735946
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9735946

SAMPLE	PREP CODE	Au g/t FA+AA										
RC971915 090-092	217 --	< 0.005										
RC971915 092-094	217 --	< 0.005										
RC971915 094-096	217 --	< 0.005										
RC971915 096-098	217 --	< 0.005										
RC971915 098-100	217 --	< 0.005										
RC971915 100-102	217 --	< 0.005										
RC971915 102-104	217 --	< 0.005										
RC971915 104-106	217 --	< 0.005										
RC971915 106-108	217 --	0.010										
RC971915 108-110	217 --	0.010										
RC971915 110-112	217 --	0.005										
RC971915 112-114	217 --	< 0.005										
RC971915 114-116	217 --	< 0.005										
RC971915 116-118	217 --	< 0.005										
RC971915 118-120	217 --	< 0.005										

CERTIFICATION: *Rick Diment*



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : 278,RC97-1916
Comments: ATTN: RICK DIMENT

Page : 1
Total P : 1
Certificate No. : 10-AUG-97
Invoice No. : 19735936
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9735936

SAMPLE	PREP CODE	Au g/t FA+AA										
RC97-1916 10-12	217 --	< 0.005										
RC97-1916 12-14	217 --	< 0.005										
RC97-1916 14-16	217 --	0.020										
RC97-1916 16-18	217 --	< 0.005										
RC97-1916 18-20	217 --	< 0.005										
RC97-1916 20-22	217 --	< 0.005										
RC97-1916 22-24	217 --	< 0.005										
RC97-1916 24-26	217 --	< 0.005										
RC97-1916 26-28	217 --	< 0.005										
RC97-1916 28-30	217 --	< 0.005										
RC97-1916 30-32	217 --	< 0.005										
RC97-1916 32-34	217 --	< 0.005										
RC97-1916 34-36	217 --	< 0.005										
RC97-1916 36-38	217 --	< 0.005										
RC97-1916 38-40	217 --	< 0.005										
RC97-1916 40-42	217 --	< 0.005										
RC97-1916 42-44	217 --	< 0.005										
RC97-1916 44-46	217 --	< 0.005										
RC97-1916 46-48	217 --	< 0.005										
RC97-1916 48-50	217 --	< 0.005										
RC97-1916 50-52	217 --	< 0.005										
RC97-1916 52-54	217 --	< 0.005										
RC97-1916 54-56	217 --	< 0.005										
RC97-1916 56-58	217 --	< 0.005										
RC97-1916 58-60	217 --	< 0.005										
RC97-1916 60-62	217 --	< 0.005										
RC97-1916 62-64	217 --	< 0.005										
RC97-1916 64-66	217 --	0.005										
RC97-1916 66-68	217 --	< 0.005										
RC97-1916 68-70	217 --	< 0.005										
RC97-1916 70-72	217 --	< 0.005										
RC97-1916 72-74	217 --	< 0.005										
RC97-1916 74-76	217 --	< 0.005										
RC97-1916 76-78	217 --	< 0.005										
RC97-1916 78-80	217 --	< 0.005										
RC97-1916 80-82	217 --	< 0.005										
RC97-1916 82-84	217 --	< 0.005										
RC97-1916 84-86	217 --	< 0.005										
RC97-1916 86-88	217 --	< 0.005										
RC97-1916 88-90	217 --	< 0.005										

CERTIFICATION:

[Signature]



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: 278,RC97-1917
 Comments: ATTN: RICK DIMENT

Page No. : 1
 Total P : 2
 Certificate No. : 10-AUG-97
 Invoice No. : 19735939
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9735939

SAMPLE	PREP CODE	Au g/t FA+AA									
RC97-1917 10-12	217 --	0.360									
RC97-1917 12-14	217 --	0.080									
RC97-1917 14-16	217 --	0.715									
RC97-1917 16-18	217 --	0.080									
RC97-1917 18-20	217 --	0.230									
RC97-1917 20-22	217 --	0.025									
RC97-1917 22-24	217 --	0.470									
RC97-1917 24-26	217 --	0.535									
RC97-1917 26-28	217 --	1.540									
RC97-1917 28-30	217 --	0.160									
RC97-1917 30-32	217 --	0.020									
RC97-1917 32-34	217 --	0.005									
RC97-1917 34-36	217 --	0.335									
RC97-1917 36-38	217 --	0.050									
RC97-1917 38-40	217 --	0.295									
RC97-1917 40-42	217 --	0.070									
RC97-1917 42-44	217 --	0.110									
RC97-1917 44-46	217 --	0.025									
RC97-1917 46-48	217 --	0.015									
RC97-1917 48-50	217 --	0.080									
RC97-1917 50-52	217 --	0.090									
RC97-1917 52-54	217 --	0.010									
RC97-1917 54-56	217 --	0.010									
RC97-1917 56-58	217 --	0.030									
RC97-1917 58-60	217 --	0.010									
RC97-1917 60-62	217 --	0.010									
RC97-1917 62-64	217 --	0.010									
RC97-1917 64-66	217 --	0.010									
RC97-1917 66-68	217 --	0.010									
RC97-1917 68-70	217 --	< 0.005									
RC97-1917 70-72	217 --	< 0.005									
RC97-1917 72-74	217 --	< 0.005									
RC97-1917 74-76	217 --	< 0.005									
RC97-1917 76-78	217 --	0.010									
RC97-1917 78-80	217 --	0.010									
RC97-1917 80-82	217 --	0.005									
RC97-1917 82-84	217 --	< 0.005									
RC97-1917 84-86	217 --	< 0.005									
RC97-1917 86-88	217 --	< 0.005									
RC97-1917 88-90	217 --	< 0.005									

CERTIFICATION:

Mark Vain



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project : 278,RC97-1917
 Comments: ATTN: RICK DIMENT

Pages : 2
 Total P : 2
 Certificate Date : 10-AUG-97
 Invoice No. : 19735939
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS	A9735939
--------------------------------	-----------------

SAMPLE	PREP	CODE	Au g/t FA+AA								
RC97-1917 90-92	217	--	< 0.005								
RC97-1917 92-94	217	--	< 0.005								
RC97-1917 94-96	217	--	< 0.005								
RC97-1917 96-98	217	--	< 0.005								
RC97-1917 98-100	217	--	< 0.005								

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Project: VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: B.C. DRILLING
Comments: ATTN: RICK DIMENT.

Page: 1
Total P: 5
Certificate date: 05-OCT-97
Invoice No.: 19744542
P.O. Number:
Account: OGN

CERTIFICATE OF ANALYSIS

A9744542

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1930 2-4	205 226	< 5										
RC97 1930 4-6	205 226	< 5										
RC97 1930 6-8	205 226	< 5										
RC97 1930 8-10	205 226	20										
RC97 1930 10-12	205 226	10										
RC97 1930 12-14	205 226	< 5										
RC97 1930 14-16A	205 226	< 5										
RC97 1930 14-16B	205 226	< 5										
RC97 1930 16-18	205 226	< 5										
RC97 1930 18-20	205 226	< 5										
RC97 1930 20-22	205 226	< 5										
RC97 1930 22-24	205 226	< 5										
RC97 1930 24-26	205 226	< 5										
RC97 1930 26-28	205 226	< 5										
RC97 1930 28-30	205 226	< 5										
RC97 1930 30-32	205 226	< 5										
RC97 1930 32-34	205 226	< 5										
RC97 1930 34-36	205 226	< 5										
RC97 1930 36-38	205 226	< 5										
RC97 1930 38-40	205 226	20										
RC97 1930 40-42	205 226	1460										
RC97 1930 42-44	205 226	270										
RC97 1930 44-46	205 226	10										
RC97 1930 46-48	205 226	< 5										
RC97 1930 48-50	205 226	< 5										
RC97 1930 50-52	205 226	< 5										
RC97 1930 52-54	205 226	< 5										
RC97 1930 54-56	205 226	< 5										
RC97 1930 56-58	-- --	Not Rcd										
RC97 1930 58-60	205 226	5										
RC97 1930 60-62	205 226	< 5										
RC97 1930 62-64	205 226	< 5										
RC97 1930 64-66	205 226	< 5										
RC97 1930 66-68	205 226	< 5										
RC97 1930 68-70	205 226	< 5										
RC97 1930 70-72	205 226	< 5										
RC97 1930 72-74	205 226	< 5										
RC97 1930 74-76	205 226	< 5										
RC97 1931 0-2	205 226	20										
RC97 1931 2-4	205 226	20										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: B.C. DRILLING
Comments: ATTN: RICK DIMENT.

Pa. num: :2
Total P: :5
Certific date: 05-OCT-97
Invoice No.: :19744542
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS

A9744542

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1931 4-6	205 226	45										
RC97 1931 6-8	205 226	535										
RC97 1931 8-10	205 226	40										
RC97 1931 10-12	205 226	< 5										
RC97 1931 12-14	205 226	10										
RC97 1931 14-16	205 226	210										
RC97 1931 16-18A	205 226	30										
RC97 1931 16-18B	205 226	30										
RC97 1931 18-20	205 226	825										
RC97 1931 20-22	205 226	3180										
RC97 1931 22-24	205 226	3400										
RC97 1931 24-26	205 226	405										
RC97 1931 26-28	205 226	190										
RC97 1931 28-30	205 226	20										
RC97 1931 30-32	205 226	15										
RC97 1931 32-34	205 226	35										
RC97 1931 34-36	205 226	10										
RC97 1931 36-38	205 226	< 5										
RC97 1931 38-40	205 226	10										
RC97 1931 40-42	205 226	10										
RC97 1931 42-44	205 226	20										
RC97 1931 44-46	205 226	10										
RC97 1931 46-48	205 226	5										
RC97 1931 48-50	205 226	< 5										
RC97 1932 0-2	205 226	150										
RC97 1932 2-4	205 226	15										
RC97 1932 4-6	205 226	5										
RC97 1932 6-8	205 226	< 5										
RC97 1932 8-10	205 226	10										
RC97 1932 10-12	205 226	< 5										
RC97 1932 12-14	205 226	< 5										
RC97 1932 14-16	205 226	< 5										
RC97 1932 16-18	205 226	< 5										
RC97 1932 18-20A	205 226	< 5										
RC97 1932 18-20B	205 226	< 5										
RC97 1932 20-22	205 226	< 5										
RC97 1932 22-24	205 226	< 5										
RC97 1932 24-26	205 226	< 5										
RC97 1932 26-28	205 226	< 5										
RC97 1932 28-30	205 226	< 5										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: B.C. DRILLING
 Comments: ATTN: RICK DIMENT.

P. Ar: :3
 Total F :5
 Certific. ate: 05-OCT-97
 Invoice No. : 19744542
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9744542

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1932 30-32	205 226	< 5										
RC97 1932 32-34	205 226	< 5										
RC97 1932 34-36	205 226	< 5										
RC97 1932 36-38	205 226	< 5										
RC97 1932 38-40	205 226	< 5										
RC97 1933 0-2	205 226	< 5										
RC97 1933 2-4	205 226	< 5										
RC97 1933 4-6	205 226	< 5										
RC97 1933 6-8	205 226	10										
RC97 1933 8-10	205 226	10										
RC97 1933 10-12A	205 226	< 5										
RC97 1933 10-12B	205 226	< 5										
RC97 1933 12-14	205 226	10										
RC97 1933 14-16	205 226	125										
RC97 1933 16-18	205 226	130										
RC97 1933 18-20	205 226	< 5										
RC97 1933 20-22	205 226	< 5										
RC97 1933 22-24	205 226	< 5										
RC97 1933 24-26	205 226	< 5										
RC97 1933 26-28	205 226	< 5										
RC97 1933 28-30	205 226	< 5										
RC97 1933 30-32	205 226	< 5										
RC97 1933 32-34	205 226	< 5										
RC97 1933 34-36	205 226	< 5										
RC97 1933 36-38	205 226	< 5										
RC97 1933 38-40	205 226	< 5										
RC97 1933 40-42	205 226	< 5										
RC97 1933 42-44	205 226	< 5										
RC97 1933 44-46	205 226	< 5										
RC97 1933 46-48	205 226	< 5										
RC97 1933 48-50	205 226	< 5										
RC97 1934 0-2	205 226	20										
RC97 1934 2-4	205 226	10										
RC97 1934 4-6	205 226	5										
RC97 1934 6-8	205 226	< 5										
RC97 1934 8-10	205 226	< 5										
RC97 1934 10-12	205 226	< 5										
RC97 1934 12-14A	205 226	< 5										
RC97 1934 12-14B	205 226	< 5										
RC97 1934 14-16	205 226	< 5										

CERTIFICATION:

Handwritten signature



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: B.C. DRILLING
 Comments: ATTN: RICK DIMENT.

Pa... :4
 Total P :5
 Certificate: 05-OCT-97
 Invoice No. : 19744542
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9744542

SAMPLE	PREP CODE	Au ppb FA+AA											
RC97 1934 16-18	205 226	< 5											
RC97 1934 18-20	205 226	< 5											
RC97 1934 20-22	205 226	< 5											
RC97 1934 22-24	205 226	< 5											
RC97 1934 24-26	205 226	< 5											
RC97 1934 26-28	205 226	< 5											
RC97 1934 28-30	205 226	< 5											
RC97 1934 30-32	205 226	< 5											
RC97 1934 32-34	205 226	< 5											
RC97 1934 34-36	205 226	< 5											
RC97 1934 36-38	205 226	< 5											
RC97 1934 38-40	205 226	< 5											
RC97 1935 0-2	205 226	< 5											
RC97 1935 2-4	205 226	240											
RC97 1935 4-6	205 226	650											
RC97 1935 6-8	205 226	15											
RC97 1935 8-10	205 226	< 5											
RC97 1935 10-12	205 226	< 5											
RC97 1935 12-14	205 226	< 5											
RC97 1935 14-16A	205 226	< 5											
RC97 1935 14-16B	205 226	< 5											
RC97 1935 16-18	205 226	< 5											
RC97 1935 18-20	205 226	< 5											
RC97 1935 20-22	205 226	< 5											
RC97 1935 22-24	205 226	< 5											
RC97 1935 24-26	205 226	< 5											
RC97 1935 26-28	205 226	< 5											
RC97 1935 28-30	205 226	< 5											
RC97 1935 30-32	205 226	5											
RC97 1935 32-34	205 226	< 5											
RC97 1935 34-36	205 226	< 5											
RC97 1935 36-38	205 226	< 5											
RC97 1935 38-40	205 226	< 5											
RC97 1935 40-42	205 226	< 5											
RC97 1935 42-44	205 226	< 5											
RC97 1935 44-46	205 226	< 5											
RC97 1935 46-48	205 226	< 5											
RC97 1935 48-50	205 226	< 5											
RC97 1936 12-14	205 226	15											
RC97 1936 14-16	205 226	10											

CERTIFICATION: *Mark Viner*



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : B.C. DRILLING
Comments: ATTN: RICK DIMENT.

Pa. :5
Total P. :5
Certificate Date: 05-OCT-97
Invoice No. : 19744542
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9744542

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1936 16-18A	205 226	10										
RC97 1936 16-18B	205 226	10										
RC97 1936 18-20	205 226	20										
RC97 1936 20-22	205 226	10										
RC97 1936 22-24	205 226	< 5										
RC97 1936 24-26	205 226	10										
RC97 1936 26-28	205 226	10										
RC97 1936 28-30	205 226	< 5										
RC97 1936 30-32	205 226	< 5										
RC97 1936 32-34	205 226	< 5										
RC97 1936 34-36	205 226	< 5										
RC97 1936 36-38	205 226	< 5										
RC97 1936 38-40	205 226	< 5										
RC97 1936 40-42	205 226	< 5										
RC97 1936 42-44	205 226	< 5										
RC97 1936 44-46	205 226	< 5										
RC97 1936 46-48	205 226	5										
RC97 1936 48-50	205 226	< 5										
RC97 1936 50-52	205 226	< 5										
RC97 1936 52-54	205 226	< 5										
RC97 1936 54-56	205 226	< 5										
RC97 1936 56-58	205 226	< 5										
RC97 1936 58-60	205 226	< 5										

CERTIFICATION: *Rick Diment*



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Pa. : 1
Total P. : 6
Certificate Date: 05-OCT-97
Invoice No. : 19744569
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9744569

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1937 2-4	205 226	< 5										
RC97 1937 4-6	205 226	< 5										
RC97 1937 6-8	205 226	< 5										
RC97 1937 8-10	205 226	< 5										
RC97 1937 10-12	205 226	< 5										
RC97 1937 12-14	205 226	< 5										
RC97 1937 14-16	205 226	< 5										
RC97 1937 16-18	205 226	950										
RC97 1937 18-20A	205 226	2060										
RC97 1937 18-20B	205 226	1950										
RC97 1937 20-22	205 226	155										
RC97 1937 22-24	205 226	565										
RC97 1937 24-26	205 226	50										
RC97 1937 26-28	205 226	30										
RC97 1937 28-30	205 226	15										
RC97 1937 30-32	205 226	< 5										
RC97 1937 32-34	205 226	5										
RC97 1937 34-36	205 226	10										
RC97 1937 36-38	205 226	10										
RC97 1937 38-40	205 226	10										
RC97 1938 0-2	205 226	160										
RC97 1938 2-4	205 226	55										
RC97 1938 4-6	205 226	25										
RC97 1938 6-8	205 226	15										
RC97 1938 8-10	205 226	30										
RC97 1938 10-12A	205 226	20										
RC97 1938 10-12B	205 226	5										
RC97 1938 12-14	205 226	10										
RC97 1938 14-16	205 226	10										
RC97 1938 16-18	205 226	10										
RC97 1938 18-20	205 226	< 5										
RC97 1938 20-22	205 226	< 5										
RC97 1938 22-24	205 226	35										
RC97 1938 24-26	205 226	40										
RC97 1938 26-28	205 226	10										
RC97 1938 28-30	205 226	< 5										
RC97 1938 30-32	205 226	< 5										
RC97 1938 32-34	205 226	< 5										
RC97 1938 34-36	205 226	< 5										
RC97 1938 36-38	205 226	< 5										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN: RICK DIMENT

Page : 2
 Total F : 6
 Certificate Date: 05-OCT-97
 Invoice No. : 19744569
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS **A9744569**

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1938 38-40	205 226	< 5										
RC97 1938 40-42	205 226	< 5										
RC97 1938 42-44	205 226	< 5										
RC97 1938 44-46	205 226	< 5										
RC97 1938 46-48	205 226	< 5										
RC97 1938 48-50	205 226	750										
RC97 1938 50-52	205 226	275										
RC97 1938 52-54	205 226	725										
RC97 1938 54-56	205 226	1215										
RC97 1938 56-58	205 226	310										
RC97 1938 58-60	205 226	20										
RC97 1938 60-62	205 226	10										
RC97 1939 2-4	205 226	5										
RC97 1939 4-6	205 226	< 5										
RC97 1939 6-8	205 226	< 5										
RC97 1939 8-10	205 226	< 5										
RC97 1939 10-12	205 226	5										
RC97 1939 12-14A	205 226	5										
RC97 1939 12-14B	205 226	< 5										
RC97 1939 14-16	205 226	< 5										
RC97 1939 16-18	205 226	180										
RC97 1939 18-20	205 226	175										
RC97 1939 20-22	205 226	135										
RC97 1939 22-24	205 226	35										
RC97 1939 24-26	205 226	10										
RC97 1939 26-28	205 226	< 5										
RC97 1939 28-30	205 226	< 5										
RC97 1939 30-32	205 226	< 5										
RC97 1939 32-34	205 226	< 5										
RC97 1939 34-36	205 226	< 5										
RC97 1940 0-2	205 226	< 5										
RC97 1940 2-4	205 226	< 5										
RC97 1940 4-6	205 226	< 5										
RC97 1940 6-8	205 226	< 5										
RC97 1940 8-10	205 226	40										
RC97 1940 10-12	205 226	100										
RC97 1940 12-14	205 226	500										
RC97 1940 14-16A	205 226	165										
RC97 1940 14-16B	205 226	150										
RC97 1940 16-18	205 226	20										

CERTIFICATION: *Shawn Vank*



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Pz Am : 3
Total Pr : 6
Certifica ..: 05-OCT-97
Invoice No. : 19744569
P.O. Number :
Account : OQN

Project :
Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9744569

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1940 18-20	205 226	15										
RC97 1940 20-22	205 226	45										
RC97 1940 22-24	205 226	330										
RC97 1940 24-26	205 226	140										
RC97 1940 26-28	205 226	25										
RC97 1940 28-30	205 226	5										
RC97 1940 30-32	205 226	10										
RC97 1940 32-34	205 226	10										
RC97 1940 34-36	205 226	< 5										
RC97 1940 36-38	205 226	< 5										
RC97 1940 38-40	205 226	55										
RC97 1940 40-42	205 226	40										
RC97 1940 42-44	205 226	20										
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RC97 1940 46-48	205 226	295										
RC97 1940 48-50	205 226	110										
RC97 1941 2-4	205 226	20										
RC97 1941 4-6	205 226	20										
RC97 1941 6-8	205 226	25										
RC97 1941 8-10	205 226	1055										
RC97 1941 10-12	205 226	1305										
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RC97 1941 14-16	205 226	385										
RC97 1941 16-18A	205 226	155										
RC97 1941 16-18B	205 226	150										
RC97 1941 18-20	205 226	70										
RC97 1941 20-22	205 226	45										
RC97 1941 22-24	205 226	30										
RC97 1941 24-26	205 226	15										
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RC97 1941 28-30	205 226	< 5										
RC97 1941 30-32	205 226	< 5										
RC97 1941 32-34	205 226	< 5										
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RC97 1941 36-38	205 226	< 5										
RC97 1941 38-40	205 226	< 5										
RC97 1941 40-42	205 226	< 5										
RC97 1941 42-44	205 226	20										
RC97 1941 44-46	205 226	< 5										
RC97 1941 46-48	205 226	1400										

CERTIFICATION: *[Signature]*



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

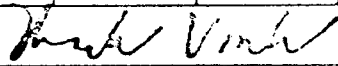
Page No. : 4
 Total P. : 6
 Certificate Date: 05-OCT-97
 Invoice No. : 19744569
 P.O. Number :
 Account : OQN

Project :
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS

A9744569

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1941 48-50	205 226	380										
RC97 1942 2-4	205 226	10										
RC97 1942 4-6	205 226	< 5										
RC97 1942 6-8	205 226	< 5										
RC97 1942 8-10	205 226	85										
RC97 1942 10-12	205 226	75										
RC97 1942 12-14	205 226	60										
RC97 1942 14-16	205 226	25										
RC97 1942 16-18	205 226	10										
RC97 1942 18-20A	205 226	65										
RC97 1942 18-20B	205 226	65										
RC97 1942 20-22	205 226	200										
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RC97 1942 24-26	205 226	620										
RC97 1942 26-28	205 226	170										
RC97 1942 28-30	205 226	325										
RC97 1942 30-32	205 226	30										
RC97 1942 32-34	205 226	10										
RC97 1942 34-36	205 226	< 5										
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RC97 1942 40-42	205 226	< 5										
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RC97 1942 44-46	205 226	< 5										
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RC97 1943 2-4	205 226	< 5										
RC97 1943 4-6	205 226	< 5										
RC97 1943 6-8	205 226	< 5										
RC97 1943 8-10	205 226	< 5										
RC97 1943 10-12A	205 226	< 5										
RC97 1943 10-12B	205 226	< 5										
RC97 1943 12-14	205 226	< 5										
RC97 1943 14-16	205 226	< 5										
RC97 1943 16-18	205 226	< 5										
RC97 1943 18-20	205 226	< 5										
RC97 1943 20-22	205 226	< 5										
RC97 1943 22-24	205 226	< 5										
RC97 1943 24-26	205 226	< 5										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Page Number : 5
Total Pages : 6
Certificate Date : 05-OCT-97
Invoice No. : 19744569
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9744569

SAMPLE	PREP CODE	Au ppb FA+AA											
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RC97 1944 44-46	205 226	< 5											
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RC97 1945 0-2	205 226	< 5											
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RC97 1945 4-6	205 226	< 5											
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RC97 1945 8-10	205 226	< 5											
RC97 1945 10-12	205 226	< 5											
RC97 1945 12-14	205 226	< 5											

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

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Invoice No. : 19744569
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9744569

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1945 14-16A	205 226	10										
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RC97 1945 28-30	205 226	< 5										
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RC97 1945 32-34	205 226	545										
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RC97 1945 38-40	205 226	20										
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RC97 1946 14-16	205 226	< 5										
RC97 1946 16-18A	205 226	< 5										
RC97 1946 16-18B	205 226	< 5										
RC97 1946 18-20	205 226	< 5										
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RC97 1946 22-24	205 226	270										
RC97 1946 24-26	205 226	250										
RC97 1946 26-28	205 226	145										
RC97 1946 28-30	205 226	25										
RC97 1946 30-32	205 226	< 5										
RC97 1946 32-34	205 226	< 5										
RC97 1946 34-36	205 226	< 5										

CERTIFICATION:

Mark Vink



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT

P. : 1
Total P : 5
Certificate No.: 07-OCT-97
Invoice No. : 19745487
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9745487

SAMPLE	PREP CODE	Au g/t FA+AA											
RC97 1947-0-2	217 --	0.025											
RC97 1947-2-4	217 --	0.440											
RC97 1947-4-6	217 --	1.330											
RC97 1947-6-8	217 --	2.54											
RC97 1947-8-10	217 --	0.155											
RC97 1947-10-12	217 --	0.310											
RC97 1947-12-14	217 --	0.070											
RC97 1947-14-16	217 --	0.060											
RC97 1947-16-18	217 --	0.900											
RC97 1947-18-20A	217 --	0.390											
RC97 1947-18-20B	217 --	0.410											
RC97 1947-20-22	217 --	0.670											
RC97 1947-22-24	217 --	1.185											
RC97 1947-24-26	217 --	0.050											
RC97 1947-26-28	217 --	0.035											
RC97 1947-28-30	217 --	0.025											
RC97 1947-30-32	217 --	0.025											
RC97 1947-32-34	217 --	0.020											
RC97 1947-34-36	217 --	0.010											
RC97 1947-36-38	217 --	0.015											
RC97 1947-38-40	217 --	0.010											
RC97 1947-40-42	217 --	0.015											
RC97 1947-42-44	217 --	0.010											
RC97 1947-44-46	217 --	0.010											
RC97 1947-46-48	217 --	0.005											
RC97 1947-48-50	217 --	0.005											
RC97 1947-50-52	217 --	0.010											
RC97 1947-52-54	217 --	< 0.005											
RC97 1947-54-56	217 --	< 0.005											
RC97 1948-0-2	217 --	0.030											
RC97 1948-2-4	217 --	0.010											
RC97 1948-4-6	217 --	< 0.005											
RC97 1948-6-8	217 --	< 0.005											
RC97 1948-8-10	217 --	< 0.005											
RC97 1948-10-12A	217 --	< 0.005											
RC97 1948-10-12B	217 --	< 0.005											
RC97 1948-12-14	217 --	< 0.005											
RC97 1948-14-16	217 --	< 0.005											
RC97 1948-16-18	217 --	< 0.005											
RC97 1948-18-20	217 --	< 0.005											

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN: RICK DIMENT

P: :2
 Total P: :5
 Certificate No.: 07-OCT-97
 Invoice No. : 19745487
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS	A9745487
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SAMPLE	PREP CODE	Au g/t FA+AA									
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RC97 1948-22-24	217 --	< 0.005									
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RC97 1948-28-30	217 --	< 0.005									
RC97 1948-30-32	217 --	< 0.005									
RC97 1948-32-34	217 --	< 0.005									
RC97 1948-34-36	217 --	< 0.005									
RC97 1948-36-38	217 --	0.005									
RC97 1948-38-40	217 --	< 0.005									
RC97 1948-40-42	217 --	< 0.005									
RC97 1948-42-44	217 --	< 0.005									
RC97 1948-44-46	217 --	< 0.005									
RC97 1948-46-48	217 --	< 0.005									
RC97 1948-48-50	217 --	< 0.005									
RC97 1949 D	217 --	0.005									
RC97 1949-0-2	217 --	0.010									
RC97 1949-2-4	217 --	< 0.005									
RC97 1949-4-6	217 --	< 0.005									
RC97 1949-6-8	217 --	< 0.005									
RC97 1949-8-10	217 --	< 0.005									
RC97 1949-10-12	217 --	< 0.005									
RC97 1949-12-14	217 --	0.010									
RC97 1949-14-16	217 --	0.010									
RC97 1949-16-18	217 --	< 0.005									
RC97 1949-18-20	217 --	0.020									
RC97 1949-20-22	217 --	< 0.005									
RC97 1949-22-24	217 --	< 0.005									
RC97 1949-24-26	217 --	< 0.005									
RC97 1949-26-28	217 --	< 0.005									
RC97 1949-28-30	217 --	< 0.005									
RC97 1949-30-32	217 --	< 0.005									
RC97 1949-32-34	217 --	< 0.005									
RC97 1949-34-36	217 --	< 0.005									
RC97 1949-36-38	217 --	< 0.005									
RC97 1949-38-40	217 --	< 0.005									
RC97 1950 D	217 --	< 0.005									
RC97 1950-2-4	217 --	0.070									
RC97 1950-4-6	217 --	0.045									
RC97 1950-6-8	217 --	0.020									

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Pt. : 3
 Total : 5
 Certificate Date: 07-OCT-97
 Invoice No. : 19745487
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS	A9745487
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SAMPLE	PREP CODE	Au g/t FA+AA									
RC97 1950-8-10	217 --	0.020									
RC97 1950-10-12	217 --	< 0.005									
RC97 1950-12-14	217 --	< 0.005									
RC97 1950-14-16	217 --	< 0.005									
RC97 1950-16-18	217 --	< 0.005									
RC97 1950-18-20	217 --	< 0.005									
RC97 1950-20-22	217 --	< 0.005									
RC97 1950-22-24	217 --	< 0.005									
RC97 1950-24-26	217 --	< 0.005									
RC97 1950-26-28	217 --	< 0.005									
RC97 1950-28-30	217 --	< 0.005									
RC97 1950-30-32	217 --	< 0.005									
RC97 1950-32-34	217 --	< 0.005									
RC97 1950-34-36	217 --	< 0.005									
RC97 1950-36-38	217 --	< 0.005									
RC97 1950-38-40	217 --	< 0.005									
RC97 1950-40-42	217 --	< 0.005									
RC97 1951 D	217 --	< 0.005									
RC97 1951-0-2	217 --	< 0.005									
RC97 1951-2-4	217 --	< 0.005									
RC97 1951-4-6	217 --	< 0.005									
RC97 1951-6-8	217 --	< 0.005									
RC97 1951-8-10	217 --	< 0.005									
RC97 1951-10-12	217 --	< 0.005									
RC97 1951-12-14	217 --	< 0.005									
RC97 1951-14-16	217 --	< 0.005									
RC97 1951-16-18	217 --	< 0.005									
RC97 1951-18-20	217 --	< 0.005									
RC97 1951-20-22	217 --	< 0.005									
RC97 1951-22-24	217 --	< 0.005									
RC97 1951-24-26	217 --	< 0.005									
RC97 1951-26-28	217 --	< 0.005									
RC97 1951-28-30	217 --	< 0.005									
RC97 1951-30-32	217 --	< 0.005									
RC97 1951-32-34	217 --	< 0.005									
RC97 1951-34-36	217 --	< 0.005									
RC97 1951-36-38	217 --	< 0.005									
RC97 1951-38-40	217 --	< 0.005									
RC97 1951-40-42	217 --	< 0.005									
RC97 1951-42-44	217 --	< 0.005									

CERTIFICATION: *Theresa Vonk*



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Pa : 4
Total : 5
Certificate : 07-OCT-97
Invoice No. : 19745487
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9745487

SAMPLE	PREP CODE	Au g/t FA+AA										
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RC97 1951-46-48	217 --	< 0.005										
RC97 1951-48-50	217 --	0.115										
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RC97 1952-8-10	217 --	< 0.005										
RC97 1952-10-12	217 --	< 0.005										
RC97 1952-12-14	217 --	< 0.005										
RC97 1952-14-16	217 --	< 0.005										
RC97 1952-16-18	217 --	< 0.005										
RC97 1952-18-20	217 --	< 0.005										
RC97 1952-20-22	217 --	< 0.005										
RC97 1952-22-24	217 --	0.010										
RC97 1952-24-26	217 --	< 0.005										
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RC97 1952-32-34	217 --	< 0.005										
RC97 1952-34-36	217 --	0.005										
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RC97 1952-42-44	217 --	< 0.005										
RC97 1952-44-46	217 --	< 0.005										
RC97 1952-46-48	217 --	< 0.005										
RC97 1952-48-50	217 --	< 0.005										
RC97 1952-50-52	217 --	0.010										
RC97 1952-52-54	217 --	0.005										
RC97 1952-54-56	217 --	< 0.005										
RC97 1952-56-58	217 --	< 0.005										
RC97 1952-58-60	217 --	< 0.005										
RC97 1953 D	217 --	< 0.005										
RC97 1953-0-2	217 --	0.010										
RC97 1953-2-4	217 --	< 0.005										
RC97 1953-4-6	217 --	< 0.005										
RC97 1953-6-8	217 --	< 0.005										
RC97 1953-8-10	217 --	< 0.005										
RC97 1953-10-12	217 --	< 0.005										
RC97 1953-12-14	217 --	< 0.005										
RC97 1953-14-16	217 --	< 0.005										
RC97 1953-16-18	217 --	0.005										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Pt. Number : 5
Total Pt. : 5
Certificate No. : 07-OCT-97
Invoice No. : 19745487
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9745487

SAMPLE	PREP CODE	Au g/t FA+AA									
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RC97 1953-24-26	217 --	1.195									
RC97 1953-26-28	217 --	0.270									
RC97 1953-28-30	217 --	0.050									
RC97 1953-30-32	217 --	0.205									
RC97 1953-32-34	217 --	< 0.005									
RC97 1953-34-36	217 --	0.060									
RC97 1953-36-38	217 --	0.020									
RC97 1953-38-40	217 --	0.070									
RC97 1953-40-42	217 --	0.820									
RC97 1953-42-44	217 --	0.130									
RC97 1953-44-46	217 --	0.075									
RC97 1953-46-48	217 --	0.100									
RC97 1953-48-50	217 --	0.015									
RC97 1954 D	217 --	< 0.005									
RC97 1954-0-2	217 --	0.005									
RC97 1954-2-4	217 --	< 0.005									
RC97 1954-4-6	217 --	< 0.005									
RC97 1954-6-8	217 --	< 0.005									
RC97 1954-8-10	217 --	< 0.005									
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RC97 1954-12-14	217 --	< 0.005									
RC97 1954-14-16	217 --	< 0.005									
RC97 1954-16-18	217 --	< 0.005									
RC97 1954-18-20	217 --	< 0.005									
RC97 1954-20-22	217 --	< 0.005									
RC97 1954-22-24	217 --	< 0.005									
RC97 1954-24-26	217 --	< 0.005									
RC97 1954-26-28	217 --	0.005									
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RC97 1954-30-32	217 --	< 0.005									
RC97 1954-32-34	217 --	< 0.005									
RC97 1954-34-36	217 --	< 0.005									
RC97 1954-36-38	217 --	< 0.005									
RC97 1954-38-40	217 --	< 0.005									

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Page Number : 1
Total Pgs : 6
Certificate : 08-OCT-97
Invoice No. : 19745486
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9745486

SAMPLE	PREP CODE	Au g/t FA+AA										
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RC97 1955-2-4	217 --	< 0.005										
RC97 1955-4-6	217 --	0.005										
RC97 1955-6-8	217 --	0.005										
RC97 1955-8-10	217 --	< 0.005										
RC97 1955-10-12	217 --	0.005										
RC97 1955-12-14	217 --	0.010										
RC97 1955-14-16	217 --	0.005										
RC97 1955-16-18	217 --	< 0.005										
RC97 1955-18-20	217 --	0.005										
RC97 1955-20-22	217 --	< 0.005										
RC97 1955-22-24	217 --	0.020										
RC97 1955-24-26	217 --	0.925										
RC97 1955-26-28	217 --	0.235										
RC97 1955-28-30	217 --	0.040										
RC97 1955-30-32	217 --	0.020										
RC97 1955-32-34	217 --	< 0.005										
RC97 1955-34-36	217 --	0.010										
RC97 1955-36-38	217 --	0.020										
RC97 1955-38-40	217 --	0.020										
RC97 1955-40-42	217 --	0.010										
RC97 1955-42-44	217 --	< 0.005										
RC97 1955-44-46	217 --	0.010										
RC97 1955-46-48	217 --	0.005										
RC97 1955-48-50	217 --	< 0.005										
RC97 1956 D	217 --	< 0.005										
RC97 1956-10-12	217 --	0.005										
RC97 1956-12-14	217 --	0.010										
RC97 1956-14-16	217 --	< 0.005										
RC97 1956-16-18	217 --	< 0.005										
RC97 1956-18-20	217 --	< 0.005										
RC97 1956-20-22	217 --	0.010										
RC97 1956-22-24	217 --	0.025										
RC97 1956-24-26	217 --	0.010										
RC97 1956-26-28	217 --	< 0.005										
RC97 1956-28-30	217 --	< 0.005										
RC97 1956-30-32	217 --	< 0.005										
RC97 1956-32-34	217 --	< 0.005										
RC97 1956-34-36	217 --	< 0.005										

CERTIFICATION: Mark Vank



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Page: 2
Total P: 6
Certificate No.: 08-OCT-97
Invoice No.: 19745486
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9745486

SAMPLE	PREP CODE	Au g/t FA+AA										
RC97 1956-36-38	217 --	< 0.005										
RC97 1956-38-40	217 --	< 0.005										
RC97 1956-40-42	217 --	< 0.005										
RC97 1956-42-44	217 --	< 0.005										
RC97 1956-44-46	217 --	< 0.005										
RC97 1956-46-48	217 --	< 0.005										
RC97 1956-48-50	217 --	< 0.005										
RC97 1956-50-52	217 --	< 0.005										
RC97 1956-52-54	217 --	< 0.005										
RC97 1956-54-56	217 --	< 0.005										
RC97 1956-56-58	217 --	< 0.005										
RC97 1956-58-60	217 --	< 0.005										
RC97 1957 D	217 --	< 0.010										
RC97 1957-3-4	217 --	0.015										
RC97 1957-4-6	217 --	0.010										
RC97 1957-6-8	217 --	0.005										
RC97 1957-8-10	217 --	< 0.005										
RC97 1957-10-12	217 --	0.010										
RC97 1957-12-14	217 --	0.010										
RC97 1957-14-16	217 --	< 0.005										
RC97 1957-16-18	217 --	< 0.005										
RC97 1957-18-20	217 --	< 0.005										
RC97 1957-20-22	217 --	< 0.005										
RC97 1957-22-24	217 --	< 0.005										
RC97 1957-24-26	217 --	< 0.005										
RC97 1957-26-28	217 --	< 0.005										
RC97 1957-28-30	217 --	< 0.005										
RC97 1957-30-32	217 --	< 0.005										
RC97 1957-32-34	217 --	< 0.005										
RC97 1957-34-36	217 --	< 0.005										
RC97 1957-36-38	217 --	< 0.005										
RC97 1957-38-40	217 --	< 0.005										
RC97 1957-40-42	217 --	< 0.005										
RC97 1957-42-44	217 --	< 0.005										
RC97 1957-44-46	217 --	0.005										
RC97 1957-46-48	217 --	0.030										
RC97 1957-48-50	217 --	0.010										
RC97 1957-50-52	217 --	0.035										
RC97 1957-52-54	217 --	0.200										
RC97 1957-54-56	217 --	0.470										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

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Totarr : 6
Certifica : 08-OCT-97
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P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

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SAMPLE	PREP CODE	Au g/t FA+AA										
RC97 1957-56-58	217 --	0.190										
RC97 1957-58-60	217 --	0.070										
RC97 1957-60-62	217 --	0.400										
RC97 1957-62-64	217 --	0.070										
RC97 1957-64-66	217 --	< 0.005										
RC97 1957-66-68	217 --	0.010										
RC97 1957-68-70	217 --	0.055										
RC97 1957-70-72	217 --	0.015										
RC97 1957-72-74	217 --	0.035										
RC97 1957-74-76	217 --	0.180										
RC97 1957-76-78	217 --	0.020										
RC97 1958 D	217 --	0.010										
RC97 1958-0-2	217 --	0.230										
RC97 1958-2-4	217 --	0.095										
RC97 1958-4-6	217 --	0.265										
RC97 1958-6-8	217 --	0.025										
RC97 1958-8-10	217 --	0.035										
RC97 1958-10-12	217 --	0.030										
RC97 1958-12-14	217 --	0.040										
RC97 1958-14-16	217 --	0.010										
RC97 1958-16-18	217 --	< 0.005										
RC97 1958-18-20	217 --	< 0.005										
RC97 1958-20-22	217 --	< 0.005										
RC97 1958-22-24	217 --	< 0.005										
RC97 1958-24-26	217 --	< 0.005										
RC97 1958-26-28	217 --	< 0.005										
RC97 1958-28-30	217 --	< 0.005										
RC97 1958-30-32	217 --	< 0.005										
RC97 1958-32-34	217 --	< 0.005										
RC97 1958-34-36	217 --	< 0.005										
RC97 1958-36-38	217 --	< 0.005										
RC97 1958-38-40	217 --	< 0.005										
RC97 1958-40-42	217 --	< 0.005										
RC97 1958-42-44	217 --	< 0.005										
RC97 1958-44-46	217 --	< 0.005										
RC97 1958-46-48	217 --	< 0.005										
RC97 1958-48-50	217 --	< 0.005										
RC97 1959 D	217 --	0.020										
RC97 1959-0-2	217 --	< 0.005										
RC97 1959-2-4	217 --	< 0.005										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
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SAMPLE	PREP CODE	Au g/t FA+AA										
RC97 1959-4-6	217 --	0.310										
RC97 1959-6-8	217 --	0.065										
RC97 1959-8-10	217 --	0.455										
RC97 1959-10-12	217 --	0.380										
RC97 1959-12-14	217 --	0.100										
RC97 1959-14-16	217 --	0.015										
RC97 1959-16-18	217 --	0.010										
RC97 1959-18-20	217 --	0.030										
RC97 1959-20-22	217 --	< 0.005										
RC97 1959-22-24	217 --	< 0.005										
RC97 1959-24-26	217 --	< 0.005										
RC97 1959-26-28	217 --	< 0.005										
RC97 1959-28-30	217 --	< 0.005										
RC97 1959-30-32	217 --	< 0.005										
RC97 1959-32-34	217 --	< 0.005										
RC97 1959-34-36	217 --	< 0.005										
RC97 1959-36-38	217 --	< 0.005										
RC97 1959-38-40	217 --	< 0.005										
RC97 1960 D	217 --	< 0.005										
RC97 1960-0-2	217 --	0.260										
RC97 1960-2-4	217 --	0.095										
RC97 1960-4-6	217 --	0.110										
RC97 1960-6-8	217 --	< 0.005										
RC97 1960-8-10	217 --	0.040										
RC97 1960-10-12	217 --	0.010										
RC97 1960-12-14	217 --	< 0.005										
RC97 1960-14-16	217 --	0.025										
RC97 1960-16-18	217 --	0.060										
RC97 1960-18-20	217 --	0.065										
RC97 1960-20-22	217 --	0.330										
RC97 1960-22-24	217 --	0.050										
RC97 1960-24-26	217 --	0.010										
RC97 1960-26-28	217 --	0.070										
RC97 1960-28-30	217 --	0.015										
RC97 1960-30-32	217 --	< 0.005										
RC97 1960-32-34	217 --	< 0.005										
RC97 1960-34-36	217 --	< 0.005										
RC97 1960-36-38	217 --	< 0.005										
RC97 1960-38-40	217 --	< 0.005										
RC97 1961 D	217 --	< 0.005										

CERTIFICATION: Mark Vonh



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
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Project :
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SAMPLE	PREP CODE	Au g/t FA+AA										
RC97 1961-0-2	217 --	0.295										
RC97 1961-2-4	217 --	0.050										
RC97 1961-4-6	217 --	0.030										
RC97 1961-6-8	217 --	0.010										
RC97 1961-8-10	217 --	0.150										
RC97 1961-10-12	217 --	2.30										
RC97 1961-12-14	217 --	1.130										
RC97 1961-14-16	217 --	0.010										
RC97 1961-16-18	217 --	0.010										
RC97 1961-18-20	217 --	0.005										
RC97 1961-20-22	217 --	< 0.005										
RC97 1961-22-24	217 --	< 0.005										
RC97 1961-24-26	217 --	0.005										
RC97 1961-26-28	217 --	0.010										
RC97 1961-28-30	217 --	0.030										
RC97 1961-30-32	217 --	0.025										
RC97 1961-32-34	217 --	< 0.005										
RC97 1961-34-36	217 --	0.015										
RC97 1961-36-38	217 --	< 0.005										
RC97 1961-38-40	217 --	< 0.005										
RC97 1961-40-42	217 --	< 0.005										
RC97 1961-42-44	217 --	< 0.005										
RC97 1961-44-46	217 --	< 0.005										
RC97 1961-46-48	217 --	< 0.005										
RC97 1961-48-50	217 --	< 0.005										
RC97 1962 D	217 --	< 0.005										
RC97 1962-2-4	217 --	< 0.005										
RC97 1962-4-6	217 --	< 0.005										
RC97 1962-6-8	217 --	< 0.005										
RC97 1962-8-10	217 --	< 0.005										
RC97 1962-10-12	217 --	< 0.005										
RC97 1962-12-14	217 --	< 0.005										
RC97 1962-14-16	217 --	0.550										
RC97 1962-16-18	217 --	< 0.005										
RC97 1962-18-20	217 --	< 0.005										
RC97 1962-20-22	217 --	0.265										
RC97 1962-22-24	217 --	< 0.005										
RC97 1962-24-26	217 --	0.365										
RC97 1962-26-28	217 --	0.410										
RC97 1962-28-30	217 --	< 0.005										

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Project :
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Total : 6
Certifica : 08-OCT-97
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CERTIFICATE OF ANALYSIS

A9745486

SAMPLE	PREP CODE	Au g/t FA+AA										
RC97 1962-30-32	217 --	< 0.005										
RC97 1962-32-34	217 --	0.005										
RC97 1962-34-36	217 --	0.090										
RC97 1962-36-38	217 --	0.040										
RC97 1962-38-40	217 --	0.490										
RC97 1962-40-42	217 --	0.910										
RC97 1962-42-44	217 --	0.520										
RC97 1962-44-46	217 --	0.045										
RC97 1962-46-48	217 --	0.025										
RC97 1962-48-50	217 --	< 0.005										
RC97 1962-50-52	217 --	< 0.005										
RC97 1962-52-54	217 --	< 0.005										

CERTIFICATION: Rick Vohl



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BAG 5040
DAWSON CITY, YT
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Project:
Comments: ATTN: RICK DIMENT

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Invoice No. : 19745485
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CERTIFICATE OF ANALYSIS

A9745485

SAMPLE	PREP CODE	Au g/t FA+AA																		
RC97 1963 D	217 --	0.055																		
RC97 1963-0-2	217 --	0.260																		
RC97 1963-2-4	217 --	0.120																		
RC97 1963-4-6	217 --	0.055																		
RC97 1963-6-8	217 --	0.200																		
RC97 1963-8-10	217 --	0.195																		
RC97 1963-10-12	217 --	0.100																		
RC97 1963-12-14	217 --	0.360																		
RC97 1963-14-16	217 --	0.070																		
RC97 1963-16-18	217 --	0.025																		
RC97 1963-18-20	217 --	0.050																		
RC97 1963-20-22	217 --	1.420																		
RC97 1963-22-24	217 --	0.605																		
RC97 1963-24-26	217 --	0.100																		
RC97 1963-26-28	217 --	0.050																		
RC97 1963-28-30	217 --	0.035																		
RC97 1963-30-32	217 --	0.030																		
RC97 1963-32-34	217 --	0.020																		
RC97 1963-34-36	217 --	0.010																		
RC97 1963-36-38	217 --	0.020																		
RC97 1963-38-40	217 --	0.010																		
RC97 1963-40-42	217 --	0.005																		
RC97 1963-42-44	217 --	0.010																		
RC97 1963-44-46	217 --	0.005																		
RC97 1963-46-48	217 --	< 0.005																		
RC97 1963-48-50	217 --	< 0.005																		
RC97 1963-8320-50	-- --	Not Rcd																		
RC97 1981 D	217 --	0.190																		
RC97 1981-2-4	217 --	0.235																		
RC97 1981-4-6	217 --	0.080																		
RC97 1981-6-8	217 --	0.020																		
RC97 1981-8-10	217 --	0.080																		
RC97 1981-10-12	217 --	0.090																		
RC97 1981-12-14	217 --	0.255																		
RC97 1981-14-16	217 --	0.210																		
RC97 1981-16-18	217 --	1.015																		
RC97 1981-18-20	217 --	0.785																		
RC97 1981-20-22	217 --	0.015																		
RC97 1981-22-24	217 --	0.010																		
RC97 1981-24-26	217 --	0.120																		

CERTIFICATION: *Paul Vink*



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Project :
Comments: ATTN: RICK DIMENT

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Total Pa : 2
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Invoice No. : 19745485
P.O. Number :
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CERTIFICATE OF ANALYSIS A9745485

SAMPLE	PREP CODE	Au g/t FA+AA										
RC97 1981-26-28	217 --	1.005										
RC97 1981-28-30	217 --	1.140										
RC97 1981-30-32	217 --	0.530										
RC97 1981-32-34	217 --	0.185										
RC97 1981-34-36	217 --	1.240										
RC97 1981-36-38	217 --	0.230										
RC97 1981-38-40	217 --	0.680										
RC97 1981-40-42	217 --	1.010										
RC97 1981-42-44	217 --	2.16										
RC97 1981-44-46	217 --	1.740										
RC97 1981-46-48	217 --	4.38										
RC97 1981-48-50	217 --	0.125										
RC97 1981-50-52	217 --	0.110										
RC97 1981-52-54	217 --	0.055										
RC97 1981-54-56	217 --	0.030										
RC97 1981-56-58	217 --	3.40										
RC97 1981-58-60	217 --	0.510										
RC97 1981-60-62	217 --	0.115										
RC97 1981-62-64	217 --	0.035										
RC97 1981-64-66	217 --	0.110										
RC97 1981-66-68	217 --	0.040										
RC97 1981-68-70	217 --	0.020										
RC97 1981-70-72	217 --	0.015										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
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Project:
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 Certificate Date: 19-OCT-97
 Invoice No. : 19746556
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CERTIFICATE OF ANALYSIS	A9746556
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SAMPLE	PREP CODE	Au ppb FA+AA									
1964-D	268 --	15									
RC97-1964:0-2	268 --	230									
RC97-1964:2-4	268 --	570									
RC97-1964:4-6	268 --	180									
RC97-1964:6-8	268 --	30									
RC97-1964:8-10	268 --	20									
RC97-1964:10-12	268 --	15									
RC97-1964:12-14	268 --	10									
RC97-1964:14-16	268 --	30									
RC97-1964:16-18	268 --	395									
RC97-1964:18-20	268 --	1270									
RC97-1964:20-22	268 --	30									
RC97-1964:22-24	268 --	15									
RC97-1964:24-26	268 --	10									
RC97-1964:26-28	268 --	< 5									
RC97-1964:28-30	268 --	< 5									
1965-D	268 --	120									
RC97-1965:0-2	268 --	805									
RC97-1965:2-4	268 --	520									
RC97-1965:4-6	268 --	2020									
RC97-1965:6-8	268 --	430									
RC97-1965:8-10	268 --	100									
RC97-1965:10-12	268 --	30									
RC97-1965:12-14	268 --	1045									
RC97-1965:14-16	268 --	110									
RC97-1965:16-18	268 --	25									
RC97-1965:18-20	268 --	10									
RC97-1965:20-22	268 --	190									
RC97-1965:22-24	268 --	15									
RC97-1965:24-26	268 --	10									
RC97-1965:26-28	268 --	10									
RC97-1965:28-30	268 --	20									
1966-D	268 --	5									
RC97-1966:0-2	268 --	45									
RC97-1966:2-4	268 --	170									
RC97-1966:4-6	268 --	690									
RC97-1966:6-8	268 --	100									
RC97-1966:8-10	268 --	5									
RC97-1966:10-12	268 --	950									
RC97-1966:12-14	268 --	70									

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SAMPLE	PREP CODE	Au ppb FA+AA									
RC97-1966:14-16	268 --	< 5									
RC97-1966:16-18	268 --	< 5									
RC97-1966:18-20	268 --	< 5									
RC97-1966:20-22	268 --	< 5									
RC97-1966:22-24	268 --	< 5									
RC97-1966:24-26	268 --	< 5									
RC97-1966:26-28	268 --	< 5									
RC97-1966:28-30	268 --	< 5									
1967-D	268 --	50									
RC97-1967:0-2	268 --	380									
RC97-1967:2-4	268 --	295									
RC97-1967:4-6	268 --	60									
RC97-1967:6-8	268 --	< 5									
RC97-1967:8-10	268 --	5									
RC97-1967:10-12	268 --	< 5									
RC97-1967:12-14	268 --	< 5									
RC97-1967:14-16	268 --	< 5									
RC97-1967:16-18	268 --	10									
RC97-1967:18-20	268 --	50									
RC97-1967:20-22	268 --	15									
RC97-1967:22-24	268 --	< 5									
RC97-1967:24-26	268 --	< 5									
RC97-1967:26-28	268 --	< 5									
RC97-1967:28-30	268 --	< 5									
1968-D	268 --	10									
RC97-1968:0-2	268 --	10									
RC97-1968:2-4	268 --	10									
RC97-1968:4-6	268 --	1580									
RC97-1968:6-8	268 --	1620									
RC97-1968:8-10	268 --	450									
RC97-1968:10-12	268 --	170									
RC97-1968:12-14	268 --	15									
RC97-1968:14-16	268 --	260									
RC97-1968:16-18	268 --	125									
RC97-1968:18-20	268 --	130									
RC97-1968:20-22	268 --	40									
RC97-1968:22-24	268 --	60									
RC97-1968:24-26	268 --	15									
RC97-1968:26-28	268 --	< 5									
RC97-1968:28-30	268 --	< 5									

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1968:30-32	268 --	< 5										
RC97-1968:32-34	268 --	< 5										
RC97-1968:34-36	268 --	< 5										
RC97-1968:36-38	268 --	< 5										
RC97-1968:38-40	268 --	< 5										
RC97-1968:40-42	268 --	< 5										
RC97-1968:42-44	268 --	< 5										
RC97-1968:44-46	268 --	5										
RC97-1968:46-48	268 --	< 5										
RC97-1968:48-50	268 --	< 5										
RC97-1968:50-52	268 --	< 5										
RC97-1968:52-54	268 --	< 5										
RC97-1968:54-56	268 --	< 5										
RC97-1968:56-58	268 --	10										
RC97-1968:58-60	268 --	20										
RC97-1968:60-62	268 --	< 5										
RC97-1968:62-64	268 --	< 5										
RC97-1968:64-66	268 --	< 5										
RC97-1968:66-68	268 --	< 5										
RC97-1968:68-70	268 --	< 5										
1969-D	268 --	< 5										
RC97-1969:0-2	268 --	550										
RC97-1969:2-4	268 --	260										
RC97-1969:4-6	268 --	25										
RC97-1969:6-8	268 --	< 5										
RC97-1969:8-10	268 --	10										
RC97-1969:10-12	268 --	< 5										
RC97-1969:12-14	268 --	< 5										
RC97-1969:14-16	268 --	< 5										
RC97-1969:16-18	268 --	< 5										
RC97-1969:18-20	268 --	< 5										
RC97-1969:20-22	268 --	< 5										
RC97-1969:22-24	268 --	< 5										
RC97-1969:24-26	268 --	< 5										
RC97-1969:26-28	268 --	< 5										
RC97-1969:28-30	268 --	< 5										
RC97-1969:30-32	268 --	< 5										
RC97-1969:32-34	268 --	< 5										
RC97-1969:34-36	268 --	< 5										
RC97-1969:36-38	268 --	< 5										

CERTIFICATION: Mark Vorkh



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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1969:38-40	268 --	< 5										
RC97-1969:40-42	268 --	< 5										
RC97-1969:42-44	268 --	< 5										
RC97-1969:44-46	268 --	< 5										
RC97-1969:46-48	268 --	< 5										
RC97-1969:48-50	268 --	< 5										
RC97-1969:50-52	268 --	< 5										
RC97-1969:52-54	268 --	< 5										
RC97-1969:54-56	268 --	< 5										
RC97-1969:56-58	268 --	< 5										
RC97-1969:58-60	268 --	< 5										
RC97-1969:60-62	268 --	< 5										
RC97-1969:62-64	268 --	< 5										
RC97-1969:64-66	268 --	< 5										
RC97-1969:66-68	268 --	15										
RC97-1969:68-70	268 --	5										

CERTIFICATION: *Jack Vink*



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SAMPLE	PREP CODE	Au ppb FA+AA										
1970 D	268 --	115										
RC97 1970 0-2	268 --	200										
RC97 1970 2-4	268 --	710										
RC97 1970 4-6	268 --	30										
RC97 1970 6-8	268 --	75										
RC97 1970 8-10	268 --	385										
RC97 1970 10-12	268 --	140										
RC97 1970 12-14	268 --	310										
RC97 1970 14-16	268 --	390										
RC97 1970 16-18	268 --	85										
RC97 1970 18-20	268 --	35										
RC97 1970 20-22	268 --	210										
RC97 1970 22-24	268 --	15										
RC97 1970 24-26	268 --	170										
RC97 1970 26-28	268 --	125										
RC97 1970 28-30	268 --	300										
RC97 1970 30-32	268 --	820										
RC97 1970 32-34	268 --	195										
RC97 1970 34-36	268 --	20										
RC97 1970 36-38	268 --	20										
RC97 1970 38-40	268 --	10										
RC97 1970 40-42	268 --	< 5										
RC97 1970 42-44	268 --	20										
RC97 1970 44-46	268 --	15										
RC97 1970 46-48	268 --	< 5										
RC97 1970 48-50	268 --	< 5										
1971 D	268 --	320										
RC97 1971 0-2	268 --	115										
RC97 1971 2-4	268 --	145										
RC97 1971 4-6	268 --	25										
RC97 1971 6-8	268 --	15										
RC97 1971 8-10	268 --	1660										
RC97 1971 10-12	268 --	1920										
RC97 1971 12-14	268 --	2040										
RC97 1971 14-16	268 --	2380										
RC97 1971 16-18	268 --	440										
RC97 1971 18-20	268 --	335										
RC97 1971 20-22	268 --	440										
RC97 1971 22-24	268 --	140										
RC97 1971 24-26	268 --	30										

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1971 26-28	268 --	< 5										
RC97 1971 28-30	268 --	< 5										
RC97 1971 30-32	268 --	< 5										
RC97 1971 32-34	268 --	< 5										
RC97 1971 34-36	268 --	45										
RC97 1971 36-38	268 --	< 5										
RC97 1971 38-40	268 --	< 5										
RC97 1971 40-42	268 --	< 5										
RC97 1971 42-44	268 --	< 5										
RC97 1971 44-46	268 --	< 5										
RC97 1971 46-48	268 --	< 5										
RC97 1971 48-50	268 --	< 5										
RC97 1971 50-52	268 --	< 5										
RC97 1971 52-54	268 --	< 5										
RC97 1971 54-56	268 --	< 5										
RC97 1971 56-58	268 --	10										
RC97 1971 58-60	268 --	5										
1986 D	268 --	1680										
RC97 1986 2-4	268 --	1020										
RC97 1986 4-6	268 --	120										
RC97 1986 6-8	268 --	125										
RC97 1986 8-10	268 --	475										
RC97 1986 10-12	268 --	330										
RC97 1986 12-14	268 --	175										
RC97 1986 14-16	268 --	940										
RC97 1986 16-18	268 --	1720										
RC97 1986 18-20	268 --	235										
RC97 1986 20-22	268 --	40										
RC97 1986 22-24	268 --	30										
RC97 1986 24-26	268 --	45										
RC97 1986 26-28	268 --	60										
RC97 1986 28-30	268 --	15										
RC97 1986 30-32	268 --	5										
RC97 1986 32-34	268 --	< 5										
RC97 1986 34-36	268 --	< 5										
RC97 1986 36-38	268 --	< 5										
RC97 1986 38-40	268 --	< 5										
RC97 1986 40-42	268 --	< 5										
RC97 1986 42-44	268 --	< 5										
RC97 1986 44-46	268 --	< 5										

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SAMPLE	PREP CODE	Au ppb FA+AA									
RC97 1986 46-48	268 --	10									
RC97 1986 48-50	268 --	20									
RC97 1986 50-52	268 --	< 5									
RC97 1986 52-54	268 --	< 5									
RC97 1986 54-56	268 --	< 5									
RC97 1986 56-58	268 --	< 5									
RC97 1986 58-60	268 --	< 5									
1987 D	268 --	195									
RC97 1987 2-4	268 --	45									
RC97 1987 4-6	268 --	55									
RC97 1987 6-8	268 --	40									
RC97 1987 8-10	268 --	20									
RC97 1987 10-12	268 --	15									
RC97 1987 12-14	268 --	< 5									
RC97 1987 14-16	268 --	10									
RC97 1987 16-18	268 --	105									
RC97 1987 18-20	268 --	20									
RC97 1987 20-22	268 --	150									
RC97 1987 22-24	268 --	400									
RC97 1987 24-26	268 --	100									
RC97 1987 26-28	268 --	35									
RC97 1987 28-30	268 --	180									
RC97 1987 30-32	268 --	40									
RC97 1987 32-34	268 --	25									
RC97 1987 34-36	268 --	35									
RC97 1987 36-38	268 --	15									
RC97 1987 38-40	268 --	30									
RC97 1987 40-42	268 --	25									
RC97 1987 42-44	268 --	15									
RC97 1987 44-46	268 --	30									
RC97 1987 46-48	268 --	35									
RC97 1987 48-50	268 --	75									
RC97 1987 50-52	268 --	45									
RC97 1987 52-54	268 --	30									
RC97 1987 54-56	268 --	10									
RC97 1987 56-58	268 --	5									
RC97 1987 58-60	268 --	125									
RC97 1987 60-62	268 --	7080									
RC97 1987 62-64	268 --	3340									
1988 D	268 --	5									

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1988 0-2	268 --	25										
RC97 1988 2-4	268 --	20										
RC97 1988 4-6	268 --	< 5										
RC97 1988 6-8	268 --	5										
RC97 1988 8-10	268 --	< 5										
RC97 1988 10-12	268 --	< 5										
RC97 1988 12-14	268 --	< 5										
RC97 1988 14-16	268 --	1215										
RC97 1988 16-18	268 --	385										
RC97 1988 18-20	268 --	710										
RC97 1988 20-22	268 --	135										
RC97 1988 22-24	268 --	45										
RC97 1988 24-26	268 --	230										
RC97 1988 26-28	268 --	< 5										
RC97 1988 28-30	268 --	< 5										
RC97 1988 30-32	268 --	40										
RC97 1988 32-34	268 --	10										
RC97 1988 34-36	268 --	20										
RC97 1988 36-38	268 --	30										
RC97 1988 38-40	268 --	10										
RC97 1988 40-42	268 --	< 5										
RC97 1988 42-44	268 --	< 5										
RC97 1988 44-46	268 --	< 5										
RC97 1988 46-48	268 --	< 5										
RC97 1988 48-50	268 --	25										
RC97 1988 50-52	268 --	< 5										
RC97 1988 52-54	268 --	< 5										
RC97 1988 54-56	268 --	< 5										
RC97 1988 56-58	268 --	< 5										
RC97 1988 58-60	268 --	< 5										
1990 D	268 --	< 5										
RC97 1990 2-4	268 --	70										
RC97 1990 4-6	268 --	< 5										
RC97 1990 6-8	268 --	135										
RC97 1990 8-10	268 --	85										
RC97 1990 10-12	268 --	165										
RC97 1990 12-14	268 --	20										
RC97 1990 14-16	268 --	< 5										
RC97 1990 16-18	268 --	< 5										
RC97 1990 18-20	268 --	< 5										

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1990 20-22	268 --	< 5										
RC97 1990 22-24	268 --	< 5										
RC97 1990 24-26	268 --	< 5										
RC97 1990 26-28	268 --	< 5										
RC97 1990 28-30	268 --	< 5										
RC97 1990 30-32	268 --	< 5										
RC97 1990 32-34	268 --	< 5										
RC97 1990 34-36	268 --	< 5										
RC97 1990 36-38	268 --	< 5										
RC97 1990 38-40	268 --	< 5										
RC97 1990 40-42	268 --	< 5										
RC97 1990 42-44	268 --	< 5										
RC97 1990 44-46	268 --	< 5										
RC97 1990 46-48	268 --	< 5										
RC97 1990 48-50	268 --	< 5										
RC97 1990 50-52	268 --	< 5										

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1972 D	217 --	75										
RC97-1972 00-02	217 --	45										
RC97-1972 02-04	217 --	100										
RC97-1972 04-06	217 --	15										
RC97-1972 06-08	217 --	10										
RC97-1972 08-10	217 --	40										
RC97-1972 10-12	217 --	30										
RC97-1972 12-14	217 --	65										
RC97-1972 14-16	217 --	15										
RC97-1972 16-18	217 --	20										
RC97-1972 18-20	217 --	310										
RC97-1972 20-22	217 --	140										
RC97-1972 22-24	217 --	975										
RC97-1972 24-26	217 --	3140										
RC97-1972 26-28	217 --	335										
RC97-1972 28-30	217 --	1820										
RC97-1972 30-32	217 --	270										
RC97-1972 32-34	217 --	40										
RC97-1972 34-36	217 --	185										
RC97-1972 36-38	217 --	60										
RC97-1972 38-40	217 --	20										
RC97-1972 40-42	217 --	40										
RC97-1972 42-44	217 --	25										
RC97-1972 44-46	217 --	10										
RC97-1972 46-48	217 --	5										
RC97-1972 48-50	217 --	10										
RC97-1972 50-52	217 --	5										
RC97-1972 52-54	217 --	< 5										
RC97-1972 54-56	217 --	< 5										
RC97-1972 56-58	217 --	145										
RC97-1972 58-60	217 --	85										
RC97-1972 60-62	217 --	95										
RC97-1972 62-64	217 --	20										
RC97-1972 64-66	217 --	25										
RC97-1972 66-68	217 --	20										
RC97-1972 68-70	217 --	10										

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1973 D	217 --	40										
RC97-1973 00-02	217 --	220										
RC97-1973 02-04	217 --	215										
RC97-1973 04-06	217 --	120										
RC97-1973 06-08	217 --	40										
RC97-1973 08-10	217 --	400										
RC97-1973 10-12	217 --	570										
RC97-1973 12-14	217 --	170										
RC97-1973 14-16	217 --	50										
RC97-1973 16-18	217 --	45										
RC97-1973 18-20	217 --	90										
RC97-1973 20-22	217 --	105										
RC97-1973 22-24	217 --	280										
RC97-1973 24-26	217 --	40										
RC97-1973 26-28	217 --	20										
RC97-1973 28-30	217 --	15										
RC97-1973 30-32	217 --	70										
RC97-1973 32-34	217 --	305										
RC97-1973 34-36	217 --	405										
RC97-1973 36-38	217 --	340										
RC97-1973 38-40	217 --	405										
RC97-1973 40-42	217 --	2800										
RC97-1973 42-44	217 --	3600										
RC97-1973 44-46	217 --	200										
RC97-1973 46-48	217 --	50										
RC97-1973 48-50	217 --	30										

CERTIFICATION: *David Vondra*



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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1974 D	217 --	100										
RC97-1974 00-02	217 --	70										
RC97-1974 02-04	217 --	55										
RC97-1974 04-06	217 --	10										
RC97-1974 06-08	217 --	40										
RC97-1974 08-10	217 --	10										
RC97-1974 10-12	217 --	10										
RC97-1974 12-14	217 --	10										
RC97-1974 14-16	217 --	35										
RC97-1974 16-18	217 --	100										
RC97-1974 18-20	217 --	15										
RC97-1974 20-22	217 --	10										
RC97-1974 22-24	217 --	105										
RC97-1974 24-26	217 --	120										
RC97-1974 26-28	217 --	340										
RC97-1974 28-30	217 --	20										
RC97-1974 30-32	217 --	55										
RC97-1974 32-34	217 --	120										
RC97-1974 34-36	217 --	20										
RC97-1974 36-38	217 --	10										
RC97-1974 38-40	217 --	< 5										
RC97-1974 40-42	217 --	5										
RC97-1974 42-44	217 --	145										
RC97-1974 44-46	217 --	10										
RC97-1974 46-48	217 --	840										
RC97-1974 48-50	217 --	110										
RC97-1974 50-52	217 --	3440										
RC97-1974 52-54	217 --	1920										
RC97-1974 54-56	217 --	125										

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1975 D	217 --	< 5										
RC97-1975 02-04	217 --	25										
RC97-1975 04-06	217 --	20										
RC97-1975 06-08	217 --	< 5										
RC97-1975 08-10	217 --	5										
RC97-1975 10-12	217 --	5										
RC97-1975 12-14	217 --	< 5										
RC97-1975 14-16	217 --	< 5										
RC97-1975 16-18	217 --	< 5										
RC97-1975 18-20	217 --	< 5										
RC97-1975 20-22	217 --	< 5										
RC97-1975 22-24	217 --	< 5										
RC97-1975 24-26	217 --	< 5										
RC97-1975 26-28	217 --	20										
RC97-1975 28-30	217 --	< 5										
RC97-1975 30-32	217 --	< 5										
RC97-1975 32-34	217 --	< 5										
RC97-1975 34-36	217 --	105										
RC97-1975 36-38	217 --	70										
RC97-1975 38-40	217 --	< 5										
RC97-1975 40-42	217 --	< 5										
RC97-1975 42-44	217 --	160										
RC97-1975 44-46	217 --	220										
RC97-1975 46-48	217 --	185										
RC97-1975 48-50	217 --	20										
RC97-1975 50-52	217 --	90										
RC97-1975 52-54	217 --	10										
RC97-1975 54-56	217 --	60										

CERTIFICATION: Theresa Vank



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Account : LDS

CERTIFICATE OF ANALYSIS

A9747619

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t								
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RC97-1976 02-04	217 --	55	-----								
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RC97-1976 22-24	217 --	25	-----								
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RC97-1976 34-36	217 --	20	-----								
RC97-1976 36-38	217 --	10	-----								
RC97-1976 38-40	217 --	20	-----								
RC97-1976 40-42	217 --	20	-----								
RC97-1976 42-44	217 --	15	-----								
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RC97-1976 56-58	217 --	>10000	11.25								
RC97-1976 58-60	217 --	>10000	10.70								
RC97-1976 60-62	217 --	200	-----								
RC97-1976 62-64	217 --	130	-----								

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Mark Vank



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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT

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Invoice No.: 19747624
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Account: LDS

CERTIFICATE OF ANALYSIS

A9747624

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RC97-1977 10-12	217 --	20	-----								
RC97-1977 12-14	217 --	10	-----								
RC97-1977 14-16	217 --	60	-----								
RC97-1977 16-18	217 --	150	-----								
RC97-1977 18-20	217 --	15	-----								
RC97-1977 20-22	217 --	10	-----								
RC97-1977 22-24	217 --	130	-----								
RC97-1977 24-26	217 --	10	-----								
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RC97-1977 36-38	217 --	>10000	11.28								
RC97-1977 38-40	217 --	160	-----								
RC97-1977 40-42	217 --	160	-----								
RC97-1977 42-44	217 --	110	-----								
RC97-1977 44-46	217 --	45	-----								
RC97-1977 46-48	217 --	10	-----								
RC97-1977 48-50	217 --	10	-----								
RC97-1977 50-52	217 --	5	-----								

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BAG 5040
DAWSON CITY, YT
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Project :
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Total F : 1
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Invoice No. : 19748293
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9748293

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t									
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RC97 1978 4-6M	217 --	575	-----									
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RC97 1978 12-14M	217 --	55	-----									
RC97 1978 14-16M	217 --	650	-----									
RC97 1978 16-18M	217 --	100	-----									
RC97 1978 18-20M	217 --	620	-----									
RC97 1978 20-22M	217 --	30	-----									
RC97 1978 22-24M	217 --	280	-----									
RC97 1978 24-26M	217 --	15	-----									
RC97 1978 26-28M	217 --	10	-----									
RC97 1978 28-30M	217 --	5	-----									
RC97 1978 30-32M	217 --	5	-----									
RC97 1978 32-34M	217 --	10	-----									
RC97 1978 34-36M	217 --	10	-----									
RC97 1978 36-38M	217 --	>10000	27.50									
RC97 1978 38-40M	217 --	>10000	10.66									
RC97 1978 40-42M	217 --	4700	-----									
RC97 1978 42-44M	217 --	3520	-----									
RC97 1978 44-46M	217 --	4000	-----									
RC97 1978 46-48M	217 --	1660	-----									
RC97 1978 48-50M	217 --	145	-----									
RC97 1978 50-52M	217 --	560	-----									
RC97 1978 52-54M	217 --	30	-----									
RC97 1978 54-56M	217 --	160	-----									
RC97 1978 56-58M	217 --	25	-----									
RC97 1978 58-60M	217 --	25	-----									
RC97 1978 60-62M	217 --	65	-----									
RC97 1978 62-64M	217 --	30	-----									
RC97 1978 64-66M	217 --	690	-----									
RC97 1978 66-68M	217 --	20	-----									
RC97 1978 68-70M	217 --	15	-----									
RC97 1978 70-72M	217 --	15	-----									
RC97 1978 72-74M	217 --	15	-----									

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 Total F : 1
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 Invoice No. : 19748296
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9748296

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t									
RC97 1979D	217 --	>10000	14.26									
RC97 1979 0-2M	217 --	255	-----									
RC97 1979 2-4M	217 --	530	-----									
RC97 1979 4-6M	217 --	440	-----									
RC97 1979 6-8M	217 --	185	-----									
RC97 1979 8-10M	217 --	25	-----									
RC97 1979 10-12M	217 --	15	-----									
RC97 1979 12-14M	217 --	8020	-----									
RC97 1979 14-16M	217 --	7980	-----									
RC97 1979 16-18M	217 --	1580	-----									
RC97 1979 18-20M	217 --	>10000	15.53									
RC97 1979 20-22M	217 --	1520	-----									
RC97 1979 22-24M	217 --	2080	-----									
RC97 1979 24-26M	217 --	485	-----									
RC97 1979 26-28M	217 --	1340	-----									
RC97 1979 28-30M	217 --	105	-----									
RC97 1979 30-32M	217 --	110	-----									
RC97 1979 32-34M	217 --	60	-----									
RC97 1979 34-36M	217 --	270	-----									
RC97 1979 36-38M	217 --	90	-----									
RC97 1979 38-40M	217 --	25	-----									
RC97 1979 40-42M	217 --	90	-----									
RC97 1979 42-44M	217 --	60	-----									
RC97 1979 44-46M	217 --	645	-----									
RC97 1979 46-48M	217 --	25	-----									
RC97 1979 48-50M	217 --	80	-----									
RC97 1979 50-52M	217 --	35	-----									
RC97 1979 52-54M	217 --	15	-----									
RC97 1979 54-56M	217 --	150	-----									
RC97 1979 56-58M	217 --	20	-----									
RC97 1979 58-60M	217 --	105	-----									
RC97 1979 60-62M	217 --	230	-----									
RC97 1979 62-64M	217 --	780	-----									
RC97 1979 64-66M	217 --	1310	-----									
RC97 1979 66-68M	217 --	50	-----									
RC97 1979 68-70M	217 --	30	-----									

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Project : RC97 1980
Comments: ATTN: RICK DIMENT

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Total : 11
Certificate Date: 03-NOV-97
Invoice No. : 19748309
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Account : OQN

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A9748309

SAMPLE	PREP CODE	Au ppb FA+AA										
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RC97 1980 2-4M	217 --	50										
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RC97 1980 6-8M	217 --	175										
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RC97 1980 14-16M	217 --	< 5										
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RC97 1980 24-26M	217 --	440										
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RC97 1980 34-36M	217 --	435										
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RC97 1980 38-40M	217 --	2860										
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RC97 1980 46-48M	217 --	55										
RC97 1980 48-50M	217 --	30										
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RC97 1980 52-54M	217 --	10										
RC97 1980 54-56M	217 --	350										
RC97 1980 56-58M	217 --	5										
RC97 1980 58-60M	217 --	1020										
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RC97 1980 62-64M	217 --	20										
RC97 1980 64-66M	217 --	5										
RC97 1980 66-68M	217 --	< 5										
RC97 1980 68-70M	217 --	< 5										

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Project: RC97 1982
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A9748300

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1982 (D)	217 --	90										
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RC97 1982 12-14M	217 --	25										
RC97 1982 14-16M	217 --	5										
RC97 1982 16-18M	217 --	105										
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RC97 1982 20-22M	217 --	< 5										
RC97 1982 22-24M	217 --	< 5										
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RC97 1982 70-72M	217 --	40										
RC97 1982 72-74M	217 --	30										
RC97 1982 74-76M	217 --	80										

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[Handwritten Signature]



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RC97 1983D	217 --	< 5											
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RC97 1983 10-12M	217 --	135											
RC97 1983 12-14M	217 --	25											
RC97 1983 14-16M	217 --	20											
RC97 1983 16-18M	217 --	10											
RC97 1983 18-20M	217 --	< 5											
RC97 1983 20-22M	217 --	5											
RC97 1983 22-24M	217 --	5											
RC97 1983 24-26M	217 --	< 5											
RC97 1983 26-28M	217 --	550											
RC97 1983 28-30M	217 --	40											
RC97 1983 30-32M	217 --	25											
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RC97 1983 34-36M	217 --	5											
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RC97 1983 62-64M	217 --	245											
RC97 1983 64-66M	217 --	965											
RC97 1983 66-68M	217 --	20											
RC97 1983 68-70M	217 --	25											

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John Vank



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Project: RC97 1984
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CERTIFICATE OF ANALYSIS

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RC97 1984D	217 --	5100									
RC97 1984 0-2M	217 --	1580									
RC97 1984 2-4M	217 --	1445									
RC97 1984 4-6M	217 --	540									
RC97 1984 6-8M	217 --	420									
RC97 1984 8-10M	217 --	735									
RC97 1984 10-12M	217 --	1085									
RC97 1984 12-14M	217 --	4940									
RC97 1984 14-16M	217 --	610									
RC97 1984 16-18M	217 --	190									
RC97 1984 18-20M	217 --	235									
RC97 1984 20-22M	217 --	55									
RC97 1984 22-24M	217 --	25									
RC97 1984 24-26M	217 --	680									
RC97 1984 26-28M	217 --	725									
RC97 1984 28-30M	217 --	60									
RC97 1984 30-32M	217 --	35									
RC97 1984 32-34M	217 --	1360									
RC97 1984 34-36M	217 --	55									
RC97 1984 36-38M	217 --	1060									
RC97 1984 38-40M	217 --	35									
RC97 1984 40-42M	217 --	30									
RC97 1984 42-44M	217 --	70									
RC97 1984 44-46M	217 --	105									
RC97 1984 46-48M	217 --	85									
RC97 1984 48-50M	217 --	365									
RC97 1984 50-52M	217 --	580									
RC97 1984 52-54M	217 --	425									
RC97 1984 54-56M	217 --	20									
RC97 1984 56-58M	217 --	15									
RC97 1984 58-60M	217 --	20									

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Project: RC97 1985
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CERTIFICATE OF ANALYSIS	A9748297
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RC97 1985D	217	--	210	-----							
RC97 1985 2-4M	217	--	550	-----							
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RC97 1985 6-8M	217	--	>10000	19.51							
RC97 1985 8-10M	217	--	4760	-----							
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RC97 1985 12-14M	217	--	3080	-----							
RC97 1985 14-16M	217	--	265	-----							
RC97 1985 16-18M	217	--	560	-----							
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RC97 1985 20-22M	217	--	340	-----							
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RC97 1985 26-28M	217	--	70	-----							
RC97 1985 28-30M	217	--	70	-----							
RC97 1985 30-32M	217	--	90	-----							
RC97 1985 32-34M	217	--	80	-----							
RC97 1985 34-36M	217	--	55	-----							
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RC97 1985 42-44M	217	--	40	-----							
RC97 1985 44-46M	217	--	30	-----							
RC97 1985 46-48M	217	--	305	-----							
RC97 1985 48-50M	217	--	40	-----							
RC97 1985 50-52M	217	--	20	-----							
RC97 1985 52-54M	217	--	15	-----							
RC97 1985 54-56M	217	--	15	-----							
RC97 1985 56-58M	217	--	15	-----							
RC97 1985 58-60M	217	--	20	-----							

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BAG 5040
DAWSON CITY, YT
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Total : 1
Certificate : 28-OCT-97
Invoice No. : 19747625
P.O. Number :
Account : LDS

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Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9747625

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1989 D	217 --	< 5										
RC97-1989 02-04	217 --	15										
RC97-1989 04-06	217 --	10										
RC97-1989 06-08	217 --	5										
RC97-1989 08-10	217 --	< 5										
RC97-1989 10-12	217 --	< 5										
RC97-1989 12-14	217 --	< 5										
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RC97-1989 16-18	217 --	< 5										
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RC97-1989 20-22	217 --	60										
RC97-1989 22-24	217 --	40										
RC97-1989 24-26	217 --	< 5										
RC97-1989 26-28	217 --	< 5										
RC97-1989 28-30	217 --	< 5										
RC97-1989 30-32	217 --	< 5										
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RC97-1989 34-36	217 --	< 5										
RC97-1989 36-38	217 --	< 5										
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RC97-1989 40-42	217 --	< 5										
RC97-1989 42-44	217 --	20										
RC97-1989 44-46	217 --	10										
RC97-1989 46-48	217 --	< 5										
RC97-1989 48-50	217 --	< 5										
RC97-1989 50-52	217 --	< 5										
RC97-1989 52-54	217 --	< 5										

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BAG 5040
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Total : 1
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Account : LDS

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A9747623

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1991 D	217 --	555										
RC97-1991 02-04	217 --	10										
RC97-1991 06-08	217 --	65										
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RC97-1991 10-12	217 --	40										
RC97-1991 12-14	217 --	510										
RC97-1991 14-16	217 --	35										
RC97-1991 16-18	217 --	580										
RC97-1991 18-20	217 --	610										
RC97-1991 20-22	217 --	80										
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RC97-1991 42-44	217 --	10										
RC97-1991 44-46	217 --	20										
RC97-1991 46-48	217 --	< 5										
RC97-1991 48-50	217 --	< 5										

CERTIFICATION:

Theresa Vank



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

To: VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Page No. : 1
Total F : 1
Certific. Date: 02-NOV-97
Invoice No. : 19748301
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9748301

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1991 4-6M	217 --	20										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
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Y0B 1G0

Project: RC97 1992
Comments: ATTN: RICK DIMENT

Page Number: 1
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Certificate No.: 06-NOV-97
Invoice No.: 19748299
P.O. Number:
Account: OQN

CERTIFICATE OF ANALYSIS

A9748299

SAMPLE	PREP CODE	Au ppb FA+AA									
RC97 1992 (D)	217 --	375									
RC97 1992 0-2 m	217 --	40									
RC97 1992 2-4 m	217 --	30									
RC97 1992 4-6 m	217 --	20									
RC97 1992 6-8 m	217 --	15									
RC97 1992 8-10 m	217 --	10									
RC97 1992 10-12	217 --	220									
RC97 1992 12-14	217 --	370									
RC97 1992 14-16	217 --	1660									
RC97 1992 16-18	217 --	3300									
RC97 1992 18-20	217 --	2800									
RC97 1992 20-22	217 --	1300									
RC97 1992 22-24	217 --	175									
RC97 1992 24-26	217 --	960									
RC97 1992 26-28	217 --	1640									
RC97 1992 28-30	217 --	1250									
RC97 1992 30-32	217 --	170									
RC97 1992 32-34	217 --	20									
RC97 1992 34-36	217 --	20									
RC97 1992 36-38	217 --	15									
RC97 1992 38-40	217 --	10									
RC97 1992 40-42	217 --	5									
RC97 1992 42-44	217 --	15									
RC97 1992 44-46	217 --	10									
RC97 1992 46-48	217 --	10									
RC97 1992 48-50	217 --	20									

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Project: VICEROY INTERNATIONAL EXPLORATION

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Y0B 1G0

Project: RC97 1993
Comments: ATTN:RICK DIMENT

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Total : 2
Certificate Date: 30-OCT-97
Invoice No. : 19748298
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9748298

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 1993D	217 --	155										
RC97 1993 0-2M	217 --	100										
RC97 1993 2-4M	217 --	90										
RC97 1993 4-6M	217 --	180										
RC97 1993 6-8M	217 --	230										
RC97 1993 8-10M	217 --	170										
RC97 1993 10-12M	217 --	215										
RC97 1993 12-14M	217 --	155										
RC97 1993 14-16M	217 --	135										
RC97 1993 16-18M	217 --	165										
RC97 1993 18-20M	217 --	270										
RC97 1993 20-22M	217 --	245										
RC97 1993 22-24M	217 --	160										
RC97 1993 24-26M	217 --	85										
RC97 1993 26-28M	217 --	120										
RC97 1993 28-30M	217 --	240										
RC97 1993 30-32M	217 --	290										
RC97 1993 32-34M	217 --	240										
RC97 1993 34-36M	217 --	160										
RC97 1993 36-38M	217 --	160										
RC97 1993 38-40M	217 --	235										
RC97 1993 40-42M	217 --	190										
RC97 1993 42-44M	217 --	175										
RC97 1993 44-46M	217 --	450										
RC97 1993 46-48M	217 --	930										
RC97 1993 48-50M	217 --	1380										
RC97 1993 50-52M	217 --	910										
RC97 1993 52-54M	217 --	225										
RC97 1993 54-56M	217 --	100										
RC97 1993 56-58M	217 --	80										
RC97 1993 58-60M	217 --	95										
RC97 1993 60-62M	217 --	55										
RC97 1993 62-64M	217 --	155										
RC97 1993 64-66M	217 --	40										
RC97 1993 66-68M	217 --	35										
RC97 1993 68-70M	217 --	30										
RC97 1993 70-72M	217 --	50										
RC97 1993 72-74M	217 --	145										
RC97 1993 74-76M	217 --	205										
RC97 1993 76-78M	217 --	90										

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VICEROY INTERNATIONAL EXPLORATION

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DAWSON CITY, YT
Y0B 1G0

Project: RC97 1993
Comments: ATTN:RICK DIMENT

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CERTIFICATE OF ANALYSIS

A9748298

SAMPLE	PREP CODE	Au ppb FA+AA										
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RC97 1993 80-82M	217 --	330										
RC97 1993 82-84M	217 --	215										
RC97 1993 84-86M	217 --	205										
RC97 1993 86-88M	217 --	355										
RC97 1993 88-90M	217 --	340										
RC97 1993 90-92M	217 --	365										
RC97 1993 92-94M	217 --	365										
RC97 1993 94-96M	217 --	505										
RC97 1993 96-98M	217 --	500										
97 1993 98-100M	217 --	365										
97 1993 100-102M	217 --	170										
97 1993 102-104M	217 --	255										
97 1993 104-106M	217 --	240										
97 1993 106-108M	217 --	140										
97 1993 108-110M	217 --	140										
97 1993 110-112M	217 --	120										
97 1993 112-114M	217 --	105										
97 1993 114-116M	217 --	110										
97 1993 116-118M	217 --	90										
97 1993 118-120M	217 --	200										
97 1993 120-122M	217 --	160										
97 1993 122-124M	217 --	180										
97 1993 124-126M	217 --	95										
97 1993 126-128M	217 --	35										
97 1993 128-130M	217 --	45										
97 1993 130-132M	217 --	45										
97 1993 132-134M	217 --	20										
97 1993 134-136M	217 --	40										
97 1993 136-138M	217 --	10										
97 1993 138-140M	217 --	40										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
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Project: RC 1994
 Comments: ATTN: RICK DIMENT

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 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9749146

SAMPLE	PREP CODE	Au ppb FA+AA											
RC97 1994 D	1388 --	345											
RC97 1994 4-6	1388 --	405											
RC97 1994 6-8	1388 --	50											
RC97 1994 8-10	1388 --	30											
RC97 1994 10-12	1388 --	40											
RC97 1994 12-14	1388 --	630											
RC97 1994 14-16	1388 --	55											
RC97 1994 16-18	1388 --	335											
RC97 1994 18-20	1388 --	445											
RC97 1994 20-22	1388 --	35											
RC97 1994 22-24	1388 --	420											
RC97 1994 24-26	1388 --	395											
RC97 1994 26-28	1388 --	55											
RC97 1994 28-30	1388 --	525											
RC97 1994 30-32	1388 --	205											
RC97 1994 32-34	1388 --	< 5											
RC97 1994 34-36	1388 --	< 5											
RC97 1994 36-38	1388 --	< 5											
RC97 1994 38-40	1388 --	< 5											
RC97 1994 40-42	1388 --	< 5											
RC97 1994 42-44	1388 --	< 5											
RC97 1994 44-46	1388 --	< 5											
RC97 1994 46-48	1388 --	< 5											
RC97 1994 48-50	1388 --	35											
RC97 1994 50-52	1388 --	< 5											
RC97 1994 52-54	1388 --	< 5											
RC97 1994 54-56	1388 --	90											
RC97 1994 56-58	1388 --	75											
RC97 1994 58-60	1388 --	15											
RC97 1994 60-62	1388 --	< 5											
RC97 1994 62-64	1388 --	< 5											
RC97 1994 64-66	1388 --	< 5											
RC97 1994 66-68	1388 --	< 5											
RC97 1994 68-70	1388 --	< 5											
RC97 1994 70-72	1388 --	< 5											
RC97 1994 72-74	1388 --	< 5											
RC97 1994 74-76	1388 --	< 5											
RC97 1994 76-78	1388 --	< 5											
RC97 1994 78-80	1388 --	< 5											
RC97 1994 80-82	1388 --	< 5											

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CERTIFICATE OF ANALYSIS A9749146

SAMPLE	PREP CODE	Au ppb FA+AA											
RC97 1994 82-84	1388 --	< 5											
RC97 1994 84-86	1388 --	< 5											
RC97 1994 86-88	1388 --	< 5											
RC97 1994 88-90	1388 --	< 5											
RC97 1994 90-92	1388 --	< 5											
RC97 1994 92-94	1388 --	< 5											
RC97 1994 94-96	1388 --	< 5											
RC97 1994 96-98	1388 --	< 5											
RC97 1994 98-100	1388 --	< 5											
RC97 1994100-102	1388 --	< 5											
RC97 1994102-104	1388 --	< 5											
RC97 1994104-106	1388 --	< 5											
RC97 1994106-108	1388 --	< 5											
RC97 1994108-110	1388 --	< 5											
RC97 1994110-112	1388 --	< 5											
RC97 1994112-114	1388 --	< 5											
RC97 1994114-116	1388 --	< 5											
RC97 1994116-118	1388 --	< 5											
RC97 1994118-120	1388 --	< 5											
RC97 1994120-122	1388 --	< 5											
RC97 1994122-124	1388 --	< 5											

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Project : RC97 1995
 Comments: ATTN: RICK DIMENT

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 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS **A9749152**

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1995 D	1388 --	610										
RC971995 000-002	1388 --	290										
RC971995 002-004	1388 --	260										
RC971995 004-006	1388 --	280										
RC971995 006-008	1388 --	150										
RC971995 008-010	1388 --	220										
RC971995 010-012	1388 --	340										
RC971995 012-014	1388 --	255										
RC971995 014-016	1388 --	245										
RC971995 016-018	1388 --	220										
RC971995 018-020	1388 --	625										
RC971995 020-022	1388 --	715										
RC971995 022-024	1388 --	900										
RC971995 024-026	1388 --	710										
RC971995 026-028	1388 --	170										
RC971995 028-030	1388 --	340										
RC971995 030-032	1388 --	455										
RC971995 032-034	1388 --	660										
RC971995 034-036	1388 --	175										
RC971995 036-038	1388 --	250										
RC971995 038-040	1388 --	100										
RC971995 040-042	1388 --	160										
RC971995 042-044	1388 --	70										
RC971995 044-046	1388 --	270										
RC971995 046-048	1388 --	50										
RC971995 048-050	1388 --	30										
RC971995 050-052	1388 --	20										
RC971995 052-054	1388 --	95										
RC971995 054-056	1388 --	40										
RC971995 056-058	1388 --	55,										
RC971995 058-060	1388 --	35										
RC971995 060-062	1388 --	80										
RC971995 062-064	1388 --	20										
RC971995 064-066	1388 --	240										
RC971995 066-068	1388 --	10										
RC971995 068-070	1388 --	75										
RC971995 070-072	1388 --	240										
RC971995 072-074	1388 --	150										
RC971995 074-076	1388 --	165										
RC971995 076-078	1388 --	165										

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BAG 5040
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Project : RC97 1995
 Comments: ATTN: RICK DIMENT

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 Account : OQN

CERTIFICATE OF ANALYSIS	A9749152
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SAMPLE	PREP CODE	Au ppb FA+AA									
RC971995 078-080	1388 --	90									
RC971995 080-082	1388 --	30									
RC971995 082-084	1388 --	20									
RC971995 084-086	1388 --	30									
RC971995 086-088	1388 --	35									
RC971995 088-090	1388 --	20									
RC971995 090-092	1388 --	10									
RC971995 092-094	1388 --	380									
RC971995 094-096	1388 --	20									
RC971995 096-098	1388 --	10									
RC971995 098-100	1388 --	20									
RC971995 100-102	1388 --	5									
RC971995 102-104	1388 --	225									
RC971995 104-106	1388 --	90									
RC971995 106-108	1388 --	185									
RC971995 108-110	1388 --	170									
RC971995 110-112	1388 --	20									
RC971995 112-114	1388 --	15									
RC971995 114-116	1388 --	90									
RC971995 116-118	1388 --	45									
RC971995 118-120	1388 --	175									
RC971995 120-122	1388 --	50									
RC971995 122-124	1388 --	30									
RC971995 124-126	1388 --	40									
RC971995 126-128	1388 --	15									
RC971995 128-130	1388 --	20									
RC971995 130-132	1388 --	55									
RC971995 132-134	1388 --	30									
RC971995 134-136	1388 --	15									
RC971995 136-138	1388 --	10									
RC971995 138-140	1388 --	40									
RC971995 140-142	1388 --	10									
RC971995 142-144	1388 --	20									
RC971995 144-146	1388 --	10									
RC971995 146-148	1388 --	15									
RC971995 148-150	1388 --	10									
RC971995 150-152	1388 --	15									
RC971995 152-154	1388 --	< 5									
RC971995 154-156	1388 --	< 5									
RC971995 156-158	1388 --	10									

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CERTIFICATE OF ANALYSIS

A9749152

SAMPLE	PREP CODE	Au ppb FA+AA									
RC971995 158-160	1388 --	< 5									

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TO: VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
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Project: RC97-1996
Comments: ATTN: RICK DIMENT

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Total Pages: 3
Certificate Date: 29-NOV-97
Invoice No.: 19751549
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CERTIFICATE OF ANALYSIS A9751549

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1996 D	1388 --	245										
RC97-1996 0-2m	1388 --	85										
RC97-1996 2-4m	1388 --	85										
RC97-1996 4-6m	1388 --	100										
RC97-1996 6-8m	1388 --	140										
RC97-1996 8-10m	1388 --	100										
RC97-1996 10-12m	1388 --	140										
RC97-1996 12-14m	1388 --	225										
RC97-1996 14-16m	1388 --	60										
RC97-1996 16-18m	1388 --	45										
RC97-1996 18-20m	1388 --	90										
RC97-1996 20-22m	1388 --	50										
RC97-1996 22-24m	1388 --	55										
RC97-1996 24-26m	1388 --	20										
RC97-1996 26-28m	1388 --	15										
RC97-1996 28-30m	1388 --	90										
RC97-1996 30-32m	1388 --	55										
RC97-1996 32-34m	1388 --	800										
RC97-1996 34-36m	1388 --	950										
RC97-1996 36-38m	1388 --	50										
RC97-1996 38-40m	1388 --	50										
RC97-1996 40-42m	1388 --	1390										
RC97-1996 42-44m	1388 --	40										
RC97-1996 44-46m	1388 --	40										
RC97-1996 46-48m	1388 --	70										
RC97-1996 48-50m	1388 --	30										
RC97-1996 50-52m	1388 --	25										
RC97-1996 52-54m	1388 --	25										
RC97-1996 54-56m	1388 --	40										
RC97-1996 56-58m	1388 --	270										
RC97-1996 58-60m	1388 --	60										
RC97-1996 60-62m	1388 --	130										
RC97-1996 62-64m	1388 --	160										
RC97-1996 64-66m	1388 --	110										
RC97-1996 66-68m	1388 --	305										
RC97-1996 68-70m	1388 --	305										
RC97-1996 70-72m	1388 --	150										
RC97-1996 72-74m	1388 --	460										
RC97-1996 74-76m	1388 --	105										
RC97-1996 76-78m	1388 --	205										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
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Project: RC97-1996
 Comments: ATTN: RICK DIMENT

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 Invoice No.: 19751549
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CERTIFICATE OF ANALYSIS A9751549

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1996 78-80m	1388 --	775										
RC97-1996 80-82m	1388 --	360										
RC97-1996 82-84m	1388 --	855										
RC97-1996 84-86m	1388 --	210										
RC97-1996 86-88m	1388 --	225										
RC97-1996 88-90m	1388 --	415										
RC97-1996 90-92m	1388 --	420										
RC97-1996 92-94m	1388 --	635										
RC97-1996 94-96m	1388 --	190										
RC97-1996 96-98m	1388 --	170										
RC97-1996 98-100	1388 --	220										
RC971996100-102m	1388 --	350										
RC971996102-104m	1388 --	60										
RC971996104-106m	1388 --	40										
RC971996106-108m	1388 --	45										
RC971996108-110m	1388 --	260										
RC971996110-112m	1388 --	140										
RC971996112-114m	1388 --	25										
RC971996114-116m	1388 --	60										
RC971996116-118m	1388 --	60										
RC971996118-120m	1388 --	50										
RC971996120-122m	1388 --	70										
RC971996122-124m	1388 --	45										
RC971996124-126m	1388 --	400										
RC971996126-128m	1388 --	130										
RC971996128-130m	1388 --	145										
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RC971996132-134m	1388 --	155										
RC971996134-136m	1388 --	110										
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RC971996138-140m	1388 --	125										
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RC971996144-146m	1388 --	350										
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RC971996150-152m	1388 --	50										
RC971996152-154m	1388 --	160										
RC971996154-156m	1388 --	155										
RC971996156-158m	1388 --	175										

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VICEROY INTERNATIONAL EXPLORATION

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC971996158-160m	1388 --	40										
RC971996160-162m	1388 --	245										
RC971996162-164m	1388 --	80										
RC971996164-166m	1388 --	75										
RC971996166-168m	1388 --	110										
RC971996168-170m	1388 --	40										
RC971996170-172m	1388 --	90										
RC971996172-174m	1388 --	70										
RC971996174-176m	1388 --	100										
RC971996176-178m	1388 --	120										
RC971996178-180m	1388 --	110										
RC971996180-182m	1388 --	70										
RC971996182-184m	1388 --	105										
RC971996184-186m	1388 --	210										
RC971996186-188m	1388 --	130										
RC971996188-190m	1388 --	240										
RC971996190-192m	1388 --	155										
RC971996192-194m	1388 --	280										
RC971996194-196m	1388 --	125										
RC971996196-198m	1388 --	90										
RC971996198-200m	1388 --	105										
RC971996200-202m	1388 --	145										
RC971996202-204m	1388 --	80										
RC971996204-206m	1388 --	140										
RC971996206-208m	1388 --	70										
RC971996208-210m	-- --	Not Rcd										
RC971996210-212m	1388 --	25										
RC971996212-214m	1388 --	25										

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Project: RC97 1997
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CERTIFICATE OF ANALYSIS

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SAMPLE	PREP CODE	Au ppb FA+AA									
RC97 1997 D	1388 --	80									
RC971997 000-002	1388 --	75									
RC971997 002-004	1388 --	115									
RC971997 004-006	1388 --	125									
RC971997 006-008	1388 --	105									
RC971997 008-010	1388 --	35									
RC971997 010-012	1388 --	205									
RC971997 012-014	1388 --	100									
RC971997 014-016	1388 --	85									
RC971997 016-018	1388 --	95									
RC971997 018-020	1388 --	65									
RC971997 020-022	1388 --	115									
RC971997 022-024	1388 --	85									
RC971997 024-026	1388 --	100									
RC971997 026-028	1388 --	55									
RC971997 028-030	1388 --	65									
RC971997 030-032	1388 --	110									
RC971997 032-034	1388 --	190									
RC971997 034-036	1388 --	50									
RC971997 036-038	1388 --	385									
RC971997 038-040	1388 --	90									
RC971997 040-042	1388 --	80									
RC971997 042-044	1388 --	70									
RC971997 044-046	1388 --	140									
RC971997 046-048	1388 --	155									
RC971997 048-050	1388 --	200									
RC971997 050-052	1388 --	185									
RC971997 052-054	1388 --	185									
RC971997 054-056	1388 --	310									
RC971997 056-058	1388 --	315									
RC971997 058-060	1388 --	355									
RC971997 060-062	1388 --	295									
RC971997 062-064	1388 --	525									
RC971997 064-066	1388 --	350									
RC971997 066-068	1388 --	290									
RC971997 068-070	1388 --	195									
RC971997 070-072	1388 --	225									
RC971997 072-074	1388 --	115									
RC971997 074-076	1388 --	80									
RC971997 076-078	1388 --	130									

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC971997 078-080	1388 --	90										
RC971997 080-082	1388 --	190										
RC971997 082-084	1388 --	140										
RC971997 084-086	1388 --	685										
RC971997 086-088	1388 --	290										
RC971997 088-090	1388 --	115										
RC971997 090-092	1388 --	170										
RC971997 092-094	1388 --	210										
RC971997 094-096	1388 --	150										
RC971997 096-098	1388 --	510										
RC971997 098-100	1388 --	630										
RC971997 100-102	1388 --	160										
RC971997 102-104	1388 --	60										
RC971997 104-106	1388 --	45										
RC971997 106-108	1388 --	35										
RC971997 108-110	1388 --	40										
RC971997 110-112	1388 --	85										
RC971997 112-114	1388 --	90										
RC971997 114-116	1388 --	85										
RC971997 116-118	1388 --	50										
RC971997 118-120	1388 --	85										
RC971997 120-122	1388 --	80										
RC971997 122-124	1388 --	100										
RC971997 124-126	1388 --	160										
RC971997 126-128	1388 --	245										
RC971997 128-130	1388 --	235										
RC971997 130-132	1388 --	985										
RC971997 132-134	1388 --	215										
RC971997 134-136	1388 --	95										
RC971997 136-138	1388 --	380										
RC971997 138-140	1388 --	140										
RC971997 140-142	1388 --	370										
RC971997 142-144	1388 --	205										
RC971997 144-146	1388 --	480										
RC971997 146-148	1388 --	255										
RC971997 148-150	1388 --	505										
RC971997 150-152	1388 --	1105										
RC971997 152-154	1388 --	200										
RC971997 154-156	1388 --	380										
RC971997 156-158	1388 --	200										

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC971997 158-160	1388 --	165										
RC971997 160-162	1388 --	95										
RC971997 162-164	1388 --	110										
RC971997 164-166	1388 --	350										
RC971997 166-168	1388 --	310										
RC971997 168-170	1388 --	105										
RC971997 170-172	1388 --	700										
RC971997 172-174	1388 --	250										
RC971997 174-176	1388 --	160										
RC971997 176-178	1388 --	155										
RC971997 178-180	1388 --	85										
RC971997 180-182	1388 --	245										
RC971997 182-184	1388 --	190										
RC971997 184-186	1388 --	75										
RC971997 186-188	1388 --	155										
RC971997 188-190	1388 --	35										
RC971997 190-192	1388 --	10										
RC971997 192-194	1388 --	15										
RC971997 194-196	1388 --	15										
RC971997 196-198	1388 --	10										
RC971997 198-200	1388 --	20										
RC971997 200-202	1388 --	10										
RC971997 202-204	1388 --	10										
RC971997 204-206	1388 --	100										

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SAMPLE	PREP CODE	Au ppb FA+AA										
1998D	1388 --	470										
RC971998 0-2	1388 --	95										
RC971998 2-4	1388 --	50										
RC971998 4-6	1388 --	85										
RC971998 6-8	1388 --	150										
RC971998 8-10	1388 --	135										
RC971998 10-12	1388 --	135										
RC971998 12-14	1388 --	160										
RC971998 14-16	1388 --	225										
RC971998 16-18	1388 --	450										
RC971998 18-20	1388 --	280										
RC971998 20-22	1388 --	595										
RC971998 22-24	1388 --	250										
RC971998 24-26	1388 --	90										
RC971998 26-28	1388 --	335										
RC971998 28-30	1388 --	75										
RC971998 30-32	1388 --	35										
RC971998 32-34	1388 --	30										
RC971998 34-36	1388 --	235										
RC971998 36-38	1388 --	265										
RC971998 38-40	1388 --	235										
RC971998 40-42	1388 --	55										
RC971998 42-44	1388 --	65										
RC971998 44-46	1388 --	40										
RC971998 46-48	1388 --	105										
RC971998 48-50	1388 --	385										
RC971998 50-52	1388 --	60										
RC971998 52-54	1388 --	220										
RC971998 54-56	1388 --	320										
RC971998 56-58	1388 --	445										
RC971998 58-60	1388 --	755										
RC971998 60-62	1388 --	245										
RC971998 62-64	1388 --	900										
RC971998 64-66	1388 --	1440										
RC971998 66-68	1388 --	220										
RC971998 68-70	1388 --	830										
RC971998 70-72	1388 --	670										
RC971998 72-74	1388 --	355										
RC971998 74-76	1388 --	155										
RC971998 76-78	1388 --	2280										

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC971998 78-80	1388 --	280										
RC971998 80-82	1388 --	265										
RC971998 82-84	1388 --	590										
RC971998 84-86	1388 --	210										
RC971998 86-88	1388 --	370										
RC971998 88-90	1388 --	170										
RC971998 90-92	1388 --	455										
RC971998 92-94	1388 --	370										
RC971998 94-96	1388 --	1045										
RC971998 96-98	1388 --	305										
RC971998 98-100	1388 --	935										
RC971998 100-102	1388 --	670										
RC971998 102-104	1388 --	285										
RC971998 104-106	1388 --	300										
RC971998 106-108	1388 --	410										
RC971998 108-110	1388 --	60										
RC971998 110-112	1388 --	55										
RC971998 112-114	1388 --	160										
RC971998 114-116	1388 --	40										
RC971998 116-118	1388 --	50										
RC971998 118-120	1388 --	30										
RC971998 120-122	1388 --	275										
RC971998 122-124	1388 --	210										
RC971998 124-126	1388 --	110										
RC971998 126-128	1388 --	155										
RC971998 128-130	1388 --	110										
RC971998 130-132	1388 --	765										
RC971998 132-134	1388 --	140										
RC971998 134-136	1388 --	140										
RC971998 136-138	1388 --	100										
RC971998 138-140	1388 --	460										
RC971998 140-142	1388 --	195										
RC971998 142-144	1388 --	45										
RC971998 144-146	1388 --	265										
RC971998 146-148	1388 --	270										
RC971998 148-150	1388 --	240										
RC971998 150-152	1388 --	175										
RC971998 152-154	1388 --	575										
RC971998 154-156	1388 --	550										
RC971998 156-158	1388 --	175										

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SAMPLE	PREP CODE	Au ppb FA+AA									
RC971998 158-160	1388 --	330									
RC971998 160-162	1388 --	20									
RC971998 162-164	1388 --	10									
RC971998 164-166	1388 --	90									
RC971998 166-168	1388 --	20									
RC971998 168-170	1388 --	15									
RC971998 170-172	1388 --	75									
RC971998 172-174	1388 --	15									
RC971998 174-176	1388 --	15									

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1999 D	1388 --	1300										
RC97-1999 2-4m	1388 --	180										
RC97-1999 4-6m	1388 --	370										
RC97-1999 6-8m	1388 --	830										
RC97-1999 8-10m	1388 --	355										
RC97-1999 10-12m	1388 --	580										
RC97-1999 12-14m	1388 --	175										
RC97-1999 14-16m	1388 --	160										
RC97-1999 16-18m	1388 --	790										
RC97-1999 18-20m	1388 --	1185										
RC97-1999 20-22m	1388 --	1055										
RC97-1999 22-24m	1388 --	690										
RC97-1999 24-26m	1388 --	325										
RC97-1999 26-28m	1388 --	900										
RC97-1999 28-30m	1388 --	240										
RC97-1999 30-32m	1388 --	240										
RC97-1999 32-34m	1388 --	100										
RC97-1999 34-36m	1388 --	530										
RC97-1999 36-38m	1388 --	165										
RC97-1999 38-40m	1388 --	140										
RC97-1999 40-42m	1388 --	860										
RC97-1999 42-44m	1388 --	1660										
RC97-1999 44-46m	1388 --	50										
RC97-1999 46-48m	1388 --	140										
RC97-1999 48-50m	1388 --	255										
RC97-1999 50-52m	1388 --	225										
RC97-1999 52-54m	1388 --	315										
RC97-1999 54-56m	1388 --	375										
RC97-1999 56-58m	1388 --	115										
RC97-1999 58-60m	1388 --	60										
RC97-1999 60-62m	1388 --	240										
RC97-1999 62-64m	1388 --	430										
RC97-1999 64-66m	1388 --	500										
RC97-1999 66-68m	1388 --	180										
RC97-1999 68-70m	1388 --	440										
RC97-1999 70-72m	1388 --	150										
RC97-1999 72-74m	1388 --	600										
RC97-1999 74-76m	1388 --	570										
RC97-1999 76-78m	1388 --	680										
RC97-1999 78-80m	1388 --	6740										

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-1999 80-82m	1388 --	1940										
RC97-1999 82-84m	1388 --	235										
RC97-1999 84-86m	1388 --	200										
RC97-1999 86-88m	1388 --	100										
RC97-1999 88-90m	1388 --	130										
RC97-1999 90-92m	1388 --	290										
RC97-1999 92-94m	1388 --	230										
RC97-1999 94-96m	1388 --	40										
RC97-1999 96-98m	1388 --	435										
RC97-1999 98-100	1388 --	175										
RC971999100-102m	1388 --	140										
RC971999102-104m	1388 --	50										
RC971999104-106m	1388 --	40										
RC971999106-108m	1388 --	60										
RC971999108-110m	1388 --	115										

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A9750082

SAMPLE	PREP CODE	Au ppb FA+AA										
2000D	1388	--	10									
RC972000 2-4	1388	--	60									
RC972000 4-6	1388	--	50									
RC972000 8-10	1388	--	20									
RC972000 10-12	1388	--	20									
RC972000 12-14	1388	--	10									
RC972000 14-16	1388	--	15									
RC972000 16-18	1388	--	10									
RC972000 18-20	1388	--	< 5									
RC972000 20-22	1388	--	20									
RC972000 22-24	1388	--	55									
RC972000 24-26	1388	--	15									
RC972000 26-28	1388	--	30									
RC972000 28-30	1388	--	< 5									
RC972000 30-32	1388	--	40									
RC972000 32-34	1388	--	25									
RC972000 34-36	1388	--	20									
RC972000 36-38	1388	--	< 5									
RC972000 38-40	1388	--	50									
RC972000 40-42	1388	--	85									
RC972000 42-44	1388	--	5									
RC972000 44-46	1388	--	65									
RC972000 46-48	1388	--	90									
RC972000 48-50	1388	--	75									
RC972000 50-52	1388	--	240									
RC972000 52-54	1388	--	140									
RC972000 54-56	1388	--	50									
RC972000 56-58	1388	--	< 5									
RC972000 58-60	1388	--	< 5									
RC972000 62-64	1388	--	< 5									
RC972000 64-66	1388	--	< 5									
RC972000 66-68	1388	--	< 5									
RC972000 68-70	1388	--	< 5									
RC972000 70-72	1388	--	< 5									

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC972001 2001D	1388 --	205										
RC972001 2-4M	1388 --	25										
RC972001 4-6M	1388 --	< 5										
RC972001 6-8M	1388 --	< 5										
RC972001 8-10M	1388 --	135										
RC972001 10-12M	1388 --	100										
RC972001 12-14M	1388 --	55										
RC972001 14-16M	1388 --	225										
RC972001 16-18M	1388 --	90										
RC972001 18-20M	1388 --	80										
RC972001 20-22M	1388 --	135										
RC972001 22-24M	1388 --	650										
RC972001 24-26M	1388 --	30										
RC972001 26-28M	1388 --	5										
RC972001 28-30M	1388 --	120										
RC972001 30-32M	1388 --	175										
RC972001 32-34M	1388 --	255										
RC972001 34-36M	1388 --	115										
RC972001 36-38M	1388 --	45										
RC972001 38-40M	1388 --	120										
RC972001 40-42M	1388 --	70										
RC972001 42-44M	1388 --	525										
RC972001 44-46M	1388 --	285										
RC972001 46-48M	1388 --	55										
RC972001 48-50M	1388 --	115										
RC972001 50-52M	1388 --	125										
RC972001 52-54M	1388 --	190										
RC972001 54-56M	1388 --	75										
RC972001 56-58M	1388 --	45										
RC972001 58-60M	1388 --	340										
RC972001 60-62M	1388 --	510										
RC972001 62-64M	1388 --	400										
RC972001 64-66M	1388 --	180										
RC972001 66-68M	1388 --	420										
RC972001 68-70M	1388 --	60										
RC972001 70-72M	1388 --	155										
RC972001 72-74M	1388 --	90										
RC972001 74-76M	1388 --	120										
RC972001 76-78M	1388 --	80										
RC972001 78-80M	1388 --	325										

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC972001 80-82M	1388 --	415										
RC972001 82-84M	1388 --	210										
RC972001 84-86M	1388 --	445										
RC972001 86-88M	1388 --	145										
RC972001 88-90M	1388 --	55										
RC972001 90-92M	1388 --	50										
RC972001 92-94M	1388 --	285										
RC972001 94-96M	1388 --	60										
RC972001 96-98M	1388 --	60										
RC972001 98-100M	1388 --	25										
RC972001 100-102	1388 --	< 5										
RC972001 102-104	1388 --	20										
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RC972001 110-112	1388 --	535										
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RC972001 148-150	1388 --	50										
RC972001 150-152	1388 --	205										
RC972001 152-154	1388 --	105										
RC972001 154-156	1388 --	55										
RC972001 156-158	1388 --	45										
RC972001 158-160	1388 --	90										

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
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Project: RC97-2001
Comments: ATTN: RICK DIMENT

Page: 3
Total Pages: 3
Certificate Date: 26-NOV-97
Invoice No.: 19751587
P.O. Number:
Account: OQN

CERTIFICATE OF ANALYSIS

A9751587

SAMPLE	PREP CODE	Au ppb FA+AA										
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RC972001 170-172	1388 --	295										
RC972001 172-174	1388 --	110										
RC972001 174-176	1388 --	215										
RC972001 176-178	1388 --	310										
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RC972001 180-182	1388 --	130										
RC972001 182-184	1388 --	10										
RC972001 184-186	1388 --	10										
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RC972001 190-192	1388 --	10										
RC972001 192-194	1388 --	5										
RC972001 194-196	1388 --	10										

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VICEROY INTERNATIONAL EXPLORATION

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Project : RC97 2002
Comments: ATTN: RICK DIMENT

Page N :1
Total F :2
Certificate Date: 12-NOV-97
Invoice No. : 19750087
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9750087

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RC972002 4-6	1388 --	10											
RC972002 6-8	1388 --	< 5											
RC972002 8-10	1388 --	15											
RC972002 10-12	1388 --	< 5											
RC972002 12-14	1388 --	< 5											
RC972002 14-16	1388 --	30											
RC972002 16-18	1388 --	< 5											
RC972002 18-20	1388 --	< 5											
RC972002 20-22	1388 --	30											
RC972002 22-24	1388 --	30											
RC972002 24-26	1388 --	15											
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RC972002 30-32	1388 --	10											
RC972002 32-34	1388 --	10											
RC972002 34-36	1388 --	20											
RC972002 36-38	1388 --	10											
RC972002 38-40	1388 --	< 5											
RC972002 40-42	1388 --	20											
RC972002 42-44	1388 --	< 5											
RC972002 44-46	1388 --	< 5											
RC972002 46-48	1388 --	10											
RC972002 48-50	1388 --	5											
RC972002 50-52	1388 --	20											
RC972002 52-54	1388 --	10											
RC972002 54-56	1388 --	30											
RC972002 56-58	1388 --	60											
RC972002 58-60	1388 --	165											
RC972002 60-62	1388 --	425											
RC972002 62-64	1388 --	100											
RC972002 64-66	1388 --	150											
RC972002 66-68	1388 --	225											
RC972002 68-70	1388 --	995											
RC972002 70-72	1388 --	895											
RC972002 72-74	1388 --	55											
RC972002 74-76	1388 --	20											
RC972002 76-78	1388 --	10											

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Project: RC97 2002
Comments: ATTN: RICK DIMENT

Page N :2
Total P :2
Certificate Date: 12-NOV-97
Invoice No. :19750087
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS

A9750087

SAMPLE	PREP CODE	Au ppb FA+AA										
RC972002 78-80	1388 --	< 5										
RC972002 80-82	1388 --	< 5										
RC972002 82-84	1388 --	10										
RC972002 84-86	1388 --	15										
RC972002 86-88	1388 --	< 5										
RC972002 88-90	1388 --	< 5										
RC972002 90-92	1388 --	10										
RC972002 92-94	1388 --	30										
RC972002 94-96	1388 --	10										
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RC972002 98-100	1388 --	10										
RC972002 100-102	1388 --	10										
RC972002 102-104	1388 --	10										
RC972002 104-106	1388 --	10										
RC972002 106-108	1388 --	20										
RC972002 108-110	1388 --	20										
RC972002 110-112	1388 --	10										
RC972002 112-114	1388 --	10										
RC972002 114-116	1388 --	10										
RC972002 116-118	1388 --	5										
RC972002 118-120	1388 --	< 5										
RC972002 120-122	1388 --	10										
RC972002 122-124	1388 --	10										

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BAG 5040
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Project: RC97 2003
 Comments: ATTN: RICK DIMENT

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 Total F : 2
 Certificate Date: 10-NOV-97
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 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9749189

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 2003D	1388 --	190										
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RC97 2003 6-8	1388 --	135										
RC97 2003 8-10	1388 --	120										
RC97 2003 10-12	1388 --	70										
RC97 2003 12-14	1388 --	435										
RC97 2003 14-16	1388 --	125										
RC97 2003 16-18	1388 --	105										
RC97 2003 18-20	1388 --	60										
RC97 2003 20-22	1388 --	230										
RC97 2003 22-24	1388 --	270										
RC97 2003 24-26	1388 --	195										
RC97 2003 26-28	1388 --	135										
RC97 2003 28-30	1388 --	35										
RC97 2003 30-32	1388 --	70										
RC97 2003 32-34	1388 --	320										
RC97 2003 34-36	1388 --	250										
RC97 2003 36-38	1388 --	525										
RC97 2003 38-40	1388 --	1660										
RC97 2003 40-42	1388 --	650										
RC97 2003 42-44	1388 --	1200										
RC97 2003 44-46	1388 --	100										
RC97 2003 46-48	1388 --	55										
RC97 2003 48-50	1388 --	10										
RC97 2003 50-52	1388 --	90										
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RC97 2003 54-56	1388 --	120										
RC97 2003 56-58	1388 --	220										
RC97 2003 58-60	1388 --	80										
RC97 2003 60-62	1388 --	435										
RC97 2003 62-64	1388 --	150										
RC97 2003 64-66	1388 --	55										
RC97 2003 66-68	1388 --	75										
RC97 2003 68-70	1388 --	60										
RC97 2003 70-72	1388 --	50										
RC97 2003 72-74	1388 --	50										
RC97 2003 74-76	1388 --	655										
RC97 2003 76-78	1388 --	585										

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To: VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: RC97 2003
Comments: ATTN: RICK DIMENT

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Total f : 2
Certificate Date: 10-NOV-97
Invoice No. : 19749189
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9749189

SAMPLE	PREP CODE	Au ppb FA+AA										
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RC97 2003 80-82	1388 --	65										
RC97 2003 82-84	1388 --	80										
RC97 2003 84-86	1388 --	140										
RC97 2003 86-88	1388 --	75										
RC97 2003 88-90	1388 --	60										
RC97 2003 90-92	1388 --	80										
RC97 2003 92-94	1388 --	70										
RC97 2003 94-96	1388 --	25										
RC97 2003 96-98	1388 --	70										
RC97 2003 98-100	1388 --	40										
97 2003 100-102	1388 --	25										
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97 2003 104-106	1388 --	30										
97 2003 106-108	1388 --	< 5										
97 2003 108-110	1388 --	< 5										
97 2003 110-112	1388 --	< 5										

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Project : RC97 2004
Comments: ATTN: RICK DIMENT

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Invoice No. : 19750088
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9750088

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RC97 2004 4-6	1388 --	1920										
RC97 2004 6-8	1388 --	575										
RC97 2004 8-10	1388 --	110										
RC97 2004 10-12	1388 --	85										
RC97 2004 12-14	1388 --	15										
RC97 2004 14-16	1388 --	< 5										
RC97 2004 16-18	1388 --	< 5										
RC97 2004 18-20	1388 --	< 5										
RC97 2004 20-22	1388 --	< 5										
RC97 2004 22-24	1388 --	< 5										
RC97 2004 24-26	1388 --	< 5										
RC97 2004 26-28	1388 --	100										
RC97 2004 28-30	1388 --	200										
RC97 2004 30-32	1388 --	780										
RC97 2004 32-34	1388 --	2200										
RC97 2004 34-36	1388 --	1060										
RC97 2004 36-38	1388 --	125										
RC97 2004 38-40	1388 --	35										
RC97 2004 40-42	1388 --	< 5										
RC97 2004 42-44	1388 --	< 5										
RC97 2004 44-46	1388 --	< 5										
RC97 2004 46-48	1388 --	< 5										
RC97 2004 48-50	1388 --	< 5										
RC97 2004 50-52	1388 --	< 5										
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RC97 2004 54-56	1388 --	4300										
RC97 2004 56-58	1388 --	1120										
RC97 2004 58-60	1388 --	695										

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Project : RC97 2005
 Comments: ATTN: RICK DIMENT

Page : 1
 Total Pages : 1
 Certificate Date: 24-NOV-97
 Invoice No. : 19750975
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS	A9750975
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SAMPLE	PREP CODE	Au ppb FA+AA							
RC97-2005 D	1388 --	25							
RC97-2005 2-4m	1388 --	40							
RC97-2005 4-6m	1388 --	2800							
RC97-2005 6-8m	1388 --	4300							
RC97-2005 8-10m	1388 --	515							
RC97-2005 10-12m	1388 --	150							
RC97-2005 12-14m	1388 --	40							
RC97-2005 14-16m	1388 --	25							
RC97-2005 16-18m	1388 --	30							
RC97-2005 18-20m	1388 --	160							
RC97-2005 20-22m	1388 --	195							
RC97-2005 22-24m	1388 --	520							
RC97-2005 24-26m	1388 --	270							
RC97-2005 26-28m	1388 --	345							
RC97-2005 28-30m	1388 --	145							
RC97-2005 30-32m	1388 --	95							
RC97-2005 32-34m	1388 --	20							
RC97-2005 34-36m	1388 --	30							
RC97-2005 36-38m	1388 --	25							
RC97-2005 38-40m	1388 --	80							
RC97-2005 40-42m	1388 --	285							
RC97-2005 42-44m	1388 --	45							
RC97-2005 44-46m	1388 --	35							
RC97-2005 46-48m	1388 --	30							
RC97-2005 48-50m	1388 --	25							
RC97-2005 50-52m	1388 --	25							
RC97-2005 52-54m	1388 --	15							
RC97-2005 54-56m	1388 --	30							
RC97-2005 56-58m	1388 --	10							
RC97-2005 58-60m	1388 --	5							
RC97-2005 60-62m	1388 --	20							
RC97-2005 62-64m	1388 --	< 5							
RC97-2005 64-66m	1388 --	10							
RC97-2005 66-68m	1388 --	10							

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Project : RC97 2006
 Comments: ATTN: RICK DIMENT

Page No. : 1
 Total Pr : 1
 Certificate No. : 14-NOV-97
 Invoice No. : 19750089
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9750089

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t									
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RC972006 0-2	1388 --	570	-----									
RC972006 2-4	1388 --	>10000	13.34									
RC972006 4-6	1388 --	9880	-----									
RC972006 6-8	1388 --	>10000	13.85									
RC972006 8-10	1388 --	3520	-----									
RC972006 10-12	1388 --	7860	-----									
RC972006 12-14	1388 --	3160	-----									
RC972006 14-16	1388 --	470	-----									
RC972006 16-18	1388 --	280	-----									
RC972006 18-20	1388 --	225	-----									
RC972006 20-22	1388 --	140	-----									
RC972006 22-24	1388 --	65	-----									
RC972006 24-26	1388 --	2980	-----									
RC972006 26-28	1388 --	3000	-----									
RC972006 28-30	1388 --	420	-----									
RC972006 30-32	1388 --	190	-----									
RC972006 32-34	1388 --	60	-----									
RC972006 34-36	1388 --	30	-----									
RC972006 36-38	1388 --	20	-----									
RC972006 38-40	1388 --	5	-----									
RC972006 40-42	1388 --	10	-----									
RC972006 42-44	1388 --	20	-----									
RC972006 44-46	1388 --	15	-----									
RC972006 46-48	1388 --	10	-----									
RC972006 48-50	1388 --	10	-----									
RC972006 50-52	1388 --	10	-----									
RC972006 52-54	1388 --	5	-----									
RC972006 54-56	1388 --	10	-----									
RC972006 56-58	1388 --	10	-----									
RC972006 58-60	1388 --	10	-----									

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Project : RC97 2007
Comments: ATTN: RICK DIMENT

Page No. : 1
Total Pt : 1
Certificate No. : 08-NOV-97
Invoice No. : 19749187
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9749187

SAMPLE	PREP CODE	Au ppb FA+AA										
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RC97 2007 6-8	1388 --	25										
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RC97 2007 10-12	1388 --	25										
RC97 2007 12-14	1388 --	20										
RC97 2007 14-16	1388 --	10										
RC97 2007 16-18	1388 --	10										
RC97 2007 18-20	1388 --	10										
RC97 2007 20-22	1388 --	5										
RC97 2007 22-24	1388 --	10										
RC97 2007 24-26	1388 --	< 5										
RC97 2007 26-28	1388 --	< 5										
RC97 2007 28-30	1388 --	15										
RC97 2007 30-32	1388 --	55										
RC97 2007 32-34	1388 --	35										
RC97 2007 34-36	1388 --	< 5										
RC97 2007 36-38	1388 --	40										
RC97 2007 38-40	1388 --	125										
RC97 2007 40-42	1388 --	130										
RC97 2007 42-44	1388 --	15										
RC97 2007 44-46	1388 --	25										
RC97 2007 46-48	1388 --	15										
RC97 2007 48-50	1388 --	< 5										

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Project: RC97-2008
Comments: ATTN: RICK DIMENT

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Total Pages: 1
Certificate Date: 20-NOV-97
Invoice No.: 19750980
P.O. Number:
Account: OQN

CERTIFICATE OF ANALYSIS

A9750980

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2008 D	1388 --	30										
RC97-2008 0-2m	1388 --	10										
RC97-2008 2-4m	1388 --	10										
RC97-2008 4-6m	1388 --	< 5										
RC97-2008 6-8m	1388 --	25										
RC97-2008 8-10m	1388 --	40										
RC97-2008 10-12m	1388 --	40										
RC97-2008 12-14m	1388 --	30										
RC97-2008 14-16m	1388 --	50										
RC97-2008 16-18m	1388 --	95										
RC97-2008 18-20m	1388 --	85										
RC97-2008 20-22m	1388 --	20										
RC97-2008 22-24m	1388 --	10										
RC97-2008 24-26m	1388 --	10										
RC97-2008 26-28m	1388 --	< 5										
RC97-2008 28-30m	1388 --	< 5										
RC97-2008 30-32m	1388 --	< 5										
RC97-2008 32-34m	1388 --	5										
RC97-2008 34-36m	1388 --	5										
RC97-2008 36-38m	1388 --	10										
RC97-2008 38-40m	1388 --	20										
RC97-2008 40-42m	1388 --	260										
RC97-2008 42-44m	1388 --	300										
RC97-2008 44-46m	1388 --	35										
RC97-2008 46-48m	1388 --	25										
RC97-2008 48-50m	1388 --	15										

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Project : RC97 2009
Comments: ATTN: RICK DIMENT

Page 1 : 1
Total 1 : 1
Certificate Date: 12-NOV-97
Invoice No. : 19750090
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9750090

SAMPLE	PREP CODE	Au ppb FA+AA										
2009D	1388 --	< 5										
RC972009 0-2	1388 --	740										
RC972009 2-4	1388 --	615										
RC972009 4-8	1388 --	175										
RC972009 8-10	1388 --	5										
RC972009 10-12	1388 --	10										
RC972009 12-14	1388 --	< 5										
RC972009 14-16	1388 --	< 5										
RC972009 16-18	1388 --	25										
RC972009 18-20	1388 --	20										
RC972009 20-22	1388 --	10										
RC972009 22-24	1388 --	< 5										
RC972009 24-26	1388 --	< 5										
RC972009 26-28	1388 --	< 5										
RC972009 28-30	1388 --	< 5										
RC972009 30-32	1388 --	15										
RC972009 32-34	1388 --	10										
RC972009 34-36	1388 --	15										
RC972009 36-38	1388 --	30										
RC972009 38-40	1388 --	25										
RC972009 40-42	1388 --	50										
RC972009 42-44	1388 --	40										
RC972009 44-46	1388 --	20										
RC972009 46-48	1388 --	40										
RC972009 48-50	1388 --	35										
RC972009 50-52	1388 --	25										
RC972009 52-54	1388 --	55										

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VICEROY INTERNATIONAL EXPLORATION

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Project : RC97 2010
Comments : ATTN: RICK DIMENT

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CERTIFICATE OF ANALYSIS

A9750095

SAMPLE	PREP CODE	Au ppb FA+AA										
2010D	1388 --	< 5										
RC972010 0-2	1388 --	280										
RC972010 2-4	1388 --	15										
RC972010 4-6	1388 --	5										
RC972010 6-8	1388 --	5										
RC972010 8-10	1388 --	< 5										
RC972010 10-12	1388 --	< 5										
RC972010 12-14	1388 --	< 5										
RC972010 14-16	1388 --	10										
RC972010 16-18	1388 --	10										
RC972010 18-20	1388 --	< 5										
RC972010 20-22	1388 --	35										
RC972010 22-24	1388 --	1225										
RC972010 24-26	1388 --	1900										
RC972010 26-28	1388 --	265										
RC972010 28-30	1388 --	205										
RC972010 30-32	1388 --	80										
RC972010 32-34	1388 --	25										
RC972010 34-36	1388 --	10										
RC972010 36-38	1388 --	5										
RC972010 38-40	1388 --	< 5										
RC972010 40-42	1388 --	< 5										
RC972010 42-44	1388 --	< 5										
RC972010 44-46	1388 --	< 5										
RC972010 46-48	1388 --	< 5										
RC972010 48-50	1388 --	< 5										
RC972010 50-52	1388 --	< 5										
RC972010 52-54	1388 --	< 5										
RC972010 54-56	1388 --	< 5										
RC972010 56-58	1388 --	< 5										
RC972010 58-60	1388 --	< 5										

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Project: RC97 2011
 Comments: ATTN: RICK DIMENT

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CERTIFICATE OF ANALYSIS	A9750096
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SAMPLE	PREP CODE	Au ppb FA+AA							
2011D	1388 --	20							
RC972011 6-8	1388 --	< 5							
RC972011 8-10	1388 --	105							
RC972011 10-12	1388 --	1270							
RC972011 12-14	1388 --	1145							
RC972011 14-16	1388 --	195							
RC972011 16-18	1388 --	35							
RC972011 18-20	1388 --	20							
RC972011 20-22	1388 --	10							
RC972011 22-24	1388 --	5							
RC972011 24-26	1388 --	< 5							
RC972011 26-28	1388 --	< 5							
RC972011 28-30	1388 --	20							
RC972011 30-32	1388 --	50							
RC972011 32-34	1388 --	< 5							
RC972011 34-36	1388 --	10							
RC972011 36-38	1388 --	395							
RC972011 38-40	1388 --	15							
RC972011 40-42	1388 --	< 5							
RC972011 42-44	1388 --	< 5							
RC972011 44-46	1388 --	10							
RC972011 46-48	1388 --	< 5							
RC972011 48-50	1388 --	< 5							
RC972011 50-52	1388 --	< 5							
RC972011 52-54	1388 --	< 5							
RC972011 54-56	1388 --	< 5							
RC972011 56-58	1388 --	< 5							
RC972011 58-60	1388 --	< 5							
RC972011 60-62	1388 --	< 5							
RC972011 62-64	1388 --	< 5							
RC972011 64-66	1388 --	< 5							
RC972011 66-68	1388 --	10							
RC972011 68-70	1388 --	5							

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A9749155

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2012 D	1388 --	410										
RC97-2012 04-06	1388 --	55										
RC97-2012 06-08	1388 --	400										
RC97-2012 08-10	1388 --	20										
RC97-2012 10-12	1388 --	10										
RC97-2012 12-14	1388 --	360										
RC97-2012 14-16	1388 --	45										
RC97-2012 16-18	1388 --	5										
RC97-2012 18-20	1388 --	< 5										
RC97-2012 20-22	1388 --	< 5										
RC97-2012 22-24	1388 --	< 5										
RC97-2012 22-26	1388 --	< 5										
RC97-2012 24-26	1388 --	< 5										
RC97-2012 26-28	1388 --	< 5										
RC97-2012 28-30	1388 --	< 5										
RC97-2012 30-32	1388 --	< 5										
RC97-2012 32-34	1388 --	< 5										
RC97-2012 34-36	1388 --	< 5										
RC97-2012 36-38	1388 --	< 5										
RC97-2012 38-40	1388 --	< 5										
RC97-2012 40-42	1388 --	< 5										
RC97-2012 42-44	1388 --	< 5										
RC97-2012 44-46	1388 --	< 5										
RC97-2012 46-48	1388 --	< 5										
RC97-2012 48-50	1388 --	< 5										
RC97-2012 50-52	1388 --	< 5										
RC97-2012 52-54	1388 --	< 5										
RC97-2012 54-56	1388 --	< 5										
RC97-2012 56-58	1388 --	< 5										
RC97-2012 58-60	1388 --	< 5										

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SAMPLE	PREP CODE	Au ppb FA+AA										
2013D	1388 --	120										
RC972013 4-6	1388 --	105										
RC972013 6-8	1388 --	145										
RC972013 8-10	1388 --	20										
RC972013 10-12	1388 --	15										
RC972013 12-14	1388 --	5										
RC972013 14-16	1388 --	110										
RC972013 16-18	1388 --	< 5										
RC972013 18-20	1388 --	< 5										
RC972013 20-22	1388 --	< 5										
RC972013 22-24	1388 --	< 5	2.5									
RC972013 24-26	1388 --	< 5										
RC972013 26-28	1388 --	< 5										
RC972013 28-30	1388 --	< 5										
RC972013 30-32	1388 --	< 5										
RC972013 32-34	1388 --	< 5										
RC972013 34-36	1388 --	< 5										
RC972013 36-38	1388 --	< 5										
RC972013 38-40	1388 --	< 5										
RC972013 40-42	1388 --	< 5										
RC972013 42-44	1388 --	< 5										
RC972013 44-46	1388 --	< 5										
RC972013 46-48	1388 --	< 5										
RC972013 48-50	1388 --	< 5										

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A9751021

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2014 D	1388 --	< 5										
RC97-2014 6-8m	1388 --	< 5										
RC97-2014 8-10m	1388 --	< 5										
RC97-2014 10-12m	1388 --	< 5										
RC97-2014 12-14m	1388 --	< 5										
RC97-2014 14-16m	1388 --	< 5										
RC97-2014 16-18m	1388 --	< 5										
RC97-2014 18-20m	1388 --	< 5										
RC97-2014 20-22m	1388 --	< 5										
RC97-2014 22-24m	1388 --	< 5										
RC97-2014 24-26m	1388 --	< 5										
RC97-2014 26-28m	1388 --	< 5										
RC97-2014 28-30m	1388 --	< 5										
RC97-2014 30-32m	1388 --	< 5										
RC97-2014 32-34m	1388 --	< 5										
RC97-2014 34-36m	1388 --	< 5										
RC97-2014 36-38m	1388 --	< 5										
RC97-2014 38-40m	1388 --	< 5										

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CERTIFICATE OF ANALYSIS

A9749190

SAMPLE	PREP CODE	Au ppb FA+AA											
RC97 2015D	1388 --	< 5											
RC97 2015 0-2	1388 --	30											
RC97 2015 2-4	1388 --	25											
RC97 2015 4-6	1388 --	15											
RC97 2015 6-8	1388 --	< 5											
RC97 2015 8-10	1388 --	< 5											
RC97 2015 10-12	1388 --	< 5											
RC97 2015 12-14	1388 --	< 5											
RC97 2015 14-16	1388 --	< 5											
RC97 2015 16-18	1388 --	< 5											
RC97 2015 18-20	1388 --	< 5											
RC97 2015 20-22	1388 --	< 5											
RC97 2015 22-24	1388 --	< 5											
RC97 2015 24-26	1388 --	< 5											
RC97 2015 26-28	1388 --	< 5											
RC97 2015 28-30	1388 --	< 5											
RC97 2015 30-32	1388 --	< 5											
RC97 2015 32-34	1388 --	< 5											
RC97 2015 34-36	1388 --	< 5											
RC97 2015 36-38	1388 --	< 5											
RC97 2015 38-40	1388 --	< 5											
RC97 2015 40-42	1388 --	< 5											
RC97 2015 42-44	1388 --	< 5											
RC97 2015 44-46	1388 --	< 5											
RC97 2015 46-48	1388 --	< 5											
RC97 2015 48-50	1388 --	< 5											

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 2016D	1388 --	< 5										
RC97 2016 4-6	1388 --	< 5										
RC97 2016 6-8	1388 --	< 5										
RC97 2016 8-10	1388 --	< 5										
RC97 2016 10-12	1388 --	< 5										
RC97 2016 12-14	1388 --	< 5										
RC97 2016 14-16	1388 --	< 5										
RC97 2016 16-18	1388 --	< 5										
RC97 2016 18-20	1388 --	< 5										
RC97 2016 20-22	1388 --	< 5										
RC97 2016 22-24	1388 --	< 5										
RC97 2016 24-26	1388 --	< 5										
RC97 2016 26-28	1388 --	< 5										
RC97 2016 28-30	1388 --	< 5										
RC97 2016 30-32	1388 --	< 5										
RC97 2016 32-34	1388 --	< 5										
RC97 2016 34-36	1388 --	< 5										

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CERTIFICATE OF ANALYSIS

A9749148

SAMPLE	PREP CODE	Au ppb FA+AA											
RC97-2017 D	1388 --	< 5											
RC97-2017 00-02	1388 --	10											
RC97-2017 02-04	1388 --	5											
RC97-2017 04-06	1388 --	15											
RC97-2017 06-08	1388 --	135											
RC97-2017 08-10	1388 --	45											
RC97-2017 10-12	1388 --	20											
RC97-2017 12-14	1388 --	15											
RC97-2017 14-16	1388 --	10											
RC97-2017 16-18	1388 --	< 5											
RC97-2017 18-20	1388 --	205											
RC97-2017 20-22	1388 --	225											
RC97-2017 22-24	1388 --	25											
RC97-2017 24-26	1388 --	< 5											
RC97-2017 26-28	1388 --	20											
RC97-2017 28-30	1388 --	< 5											
RC97-2017 30-32	1388 --	< 5											
RC97-2017 32-34	1388 --	< 5											
RC97-2017 34-36	1388 --	< 5											
RC97-2017 36-38	1388 --	< 5											
RC97-2017 38-40	1388 --	< 5											
RC97-2017 40-42	1388 --	< 5											
RC97-2017 42-44	1388 --	< 5											
RC97-2017 44-46	1388 --	< 5											
RC97-2017 46-48	1388 --	< 5											
RC97-2017 48-50	1388 --	< 5											
RC97-2017 50-52	1388 --	< 5											
RC97-2017 52-54	1388 --	< 5											
RC97-2017 54-56	1388 --	< 5											
RC97-2017 56-58	1388 --	< 5											
RC97-2017 58-60	1388 --	< 5											
RC97-2017 60-62	1388 --	< 5											
RC97-2017 62-64	1388 --	< 5											
RC97-2017 64-66	1388 --	< 5											

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2018 D	1388 --	95										
RC97-2018 0-2m	1388 --	230										
RC97-2018 2-4m	1388 --	20										
RC97-2018 4-6m	1388 --	< 5										
RC97-2018 6-8m	1388 --	< 5										
RC97-2018 8-10m	1388 --	< 5										
RC97-2018 10-12m	1388 --	50										
RC97-2018 12-14m	1388 --	3160										
RC97-2018 14-16m	1388 --	1350										
RC97-2018 16-18m	1388 --	105										
RC97-2018 18-20m	1388 --	30										
RC97-2018 20-22m	1388 --	5										
RC97-2018 22-24m	1388 --	< 5										
RC97-2018 24-26m	1388 --	90										
RC97-2018 26-28m	1388 --	5										
RC97-2018 28-30m	1388 --	< 5										
RC97-2018 30-32m	1388 --	355										
RC97-2018 32-34m	1388 --	70										
RC97-2018 34-36m	1388 --	15										
RC97-2018 36-38m	1388 --	< 5										
RC97-2018 38-40m	1388 --	< 5										
RC97-2018 40-42m	1388 --	< 5										
RC97-2018 42-44m	1388 --	< 5										
RC97-2018 44-46m	1388 --	< 5										
RC97-2018 46-48m	1388 --	10										
RC97-2018 48-50m	1388 --	< 5										
RC97-2018 50-52m	1388 --	< 5										
RC97-2018 52-54m	1388 --	< 5										
RC97-2018 54-56m	1388 --	< 5										
RC97-2018 56-58m	1388 --	< 5										
RC97-2018 58-60m	1388 --	< 5										
RC97-2018 60-62m	1388 --	< 5										
RC97-2018 62-64m	1388 --	< 5										
RC97-2018 64-66m	1388 --	< 5										

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Frank Vonk



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CERTIFICATE OF ANALYSIS A9749188

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97 2019D	1388 --	140										
RC97 2019 6-8	1388 --	< 5										
RC97 2019 8-10	1388 --	< 5										
RC97 2019 10-12	1388 --	45										
RC97 2019 12-14	1388 --	105										
RC97 2019 14-16	1388 --	250										
RC97 2019 16-18	1388 --	1015										
RC97 2019 18-20	1388 --	135										
RC97 2019 20-22	1388 --	25										
RC97 2019 22-24	1388 --	20										
RC97 2019 24-26	1388 --	355										
RC97 2019 26-28	1388 --	45										
RC97 2019 28-30	1388 --	30										
RC97 2019 30-32	1388 --	595										
RC97 2019 32-34	1388 --	255										
RC97 2019 34-36	1388 --	1040										
RC97 2019 36-38	1388 --	80										
RC97 2019 38-40	1388 --	655										
RC97 2019 40-42	1388 --	45										
RC97 2019 42-44	1388 --	15										
RC97 2019 44-46	1388 --	35										
RC97 2019 46-48	1388 --	5										
RC97 2019 48-50	1388 --	< 5										
RC97 2019 50-52	1388 --	< 5										
RC97 2019 52-54	1388 --	< 5										
RC97 2019 54-56	1388 --	< 5										
RC97 2019 56-58	1388 --	< 5										
RC97 2019 58-60	1388 --	< 5										

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CERTIFICATE OF ANALYSIS A9751004

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2020 D	1388 --	< 5										
RC97-2020 0-2m	1388 --	25										
RC97-2020 2-4m	1388 --	10										
RC97-2020 4-6m	1388 --	< 5										
RC97-2020 6-8m	1388 --	< 5										
RC97-2020 8-10m	1388 --	< 5										
RC97-2020 10-12m	1388 --	< 5										
RC97-2020 12-14m	1388 --	< 5										
RC97-2020 14-16m	1388 --	< 5										
RC97-2020 16-18m	1388 --	< 5										
RC97-2020 18-20m	1388 --	40										
RC97-2020 20-22m	1388 --	10										
RC97-2020 22-24m	1388 --	< 5										
RC97-2020 24-26m	1388 --	< 5										
RC97-2020 26-28m	1388 --	< 5										
RC97-2020 28-30m	1388 --	< 5										
RC97-2020 30-32m	1388 --	30										
RC97-2020 32-34m	1388 --	20										
RC97-2020 34-36m	1388 --	< 5										
RC97-2020 36-38m	1388 --	< 5										
RC97-2020 38-40m	1388 --	< 5										
RC97-2020 40-42m	1388 --	< 5										
RC97-2020 42-44m	1388 --	< 5										
RC97-2020 44-46m	1388 --	< 5										
RC97-2020 46-48m	1388 --	< 5										
RC97-2020 48-50m	1388 --	< 5										
RC97-2020 50-52m	1388 --	< 5										
RC97-2020 52-54m	1388 --	< 5										
RC97-2020 54-56m	1388 --	< 5										
RC97-2020 56-58m	1388 --	< 5										
RC97-2020 58-60m	1388 --	< 5										
RC97-2020 60-62m	1388 --	400										
RC97-2020 62-64m	1388 --	200										
RC97-2020 64-66m	1388 --	20										
RC97-2020 66-68m	1388 --	10										
RC97-2020 68-70m	1388 --	30										
RC97-2020 70-72m	1388 --	1300										
RC97-2020 72-74m	1388 --	485										
RC97-2020 74-76m	1388 --	4120										
RC97-2020 76-78m	1388 --	490										

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2020 78-80m	1388 --	60										
RC97-2020 80-82m	1388 --	105										
RC97-2020 82-84m	1388 --	20										
RC97-2020 84-86m	1388 --	15										
RC97-2020 86-88m	1388 --	10										
RC97-2020 88-90m	1388 --	< 5										
RC97-2020 90-92m	1388 --	< 5										
RC97-2020 92-94m	1388 --	< 5										
RC97-2020 94-96m	1388 --	< 5										
RC97-2020 96-98m	1388 --	< 5										
RC97-202098-100m	1388 --	< 5										

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

To: VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: RC97-2021
Comments: ATTN: RICK DIMENT

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CERTIFICATE OF ANALYSIS

A9751589

SAMPLE	PREP CODE	Au ppb FA+AA										
RC972021 2021D	1388	--	< 5									
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RC972021 4-6M	1388	--	355									
RC972021 6-8M	1388	--	95									
RC972021 8-10M	1388	--	10									
RC972021 10-12M	1388	--	15									
RC972021 12-14M	1388	--	20									
RC972021 14-16M	1388	--	< 5									
RC972021 16-18M	1388	--	< 5									
RC972021 18-20M	1388	--	< 5									
RC972021 20-22M	1388	--	< 5									
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RC972021 24-26M	1388	--	< 5									
RC972021 26-28M	1388	--	< 5									
RC972021 28-30M	1388	--	< 5									
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RC972021 32-34M	1388	--	10									
RC972021 34-36M	1388	--	2860									
RC972021 36-38M	1388	--	5020									
RC972021 38-40M	1388	--	3300									
RC972021 40-42M	1388	--	170									
RC972021 42-44M	1388	--	1090									
RC972021 44-46M	1388	--	280									
RC972021 46-48M	1388	--	130									
RC972021 48-50M	1388	--	85									
RC972021 50-52M	1388	--	270									
RC972021 52-54M	1388	--	20									
RC972021 54-56M	1388	--	4660									
RC972021 56-58M	1388	--	685									
RC972021 58-60M	1388	--	2000									
RC972021 60-62M	1388	--	1980									
RC972021 62-64M	1388	--	350									
RC972021 64-66M	1388	--	30									
RC972021 66-68M	1388	--	170									
RC972021 68-70M	1388	--	220									
RC972021 70-72M	1388	--	35									
RC972021 72-74M	1388	--	20									
RC972021 74-76M	1388	--	115									
RC972021 76-78M	1388	--	10									

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SAMPLE	PREP CODE	Au ppb FA+AA										
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RC972021 92-94M	1388 --	185										
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RC972021 98-100M	1388 --	185										
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RC972021 102-104	1388 --	20										
RC972021 104-106	1388 --	50										
RC972021 106-108	1388 --	110										
RC972021 108-110	1388 --	125										
RC972021 110-112	1388 --	95										

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A9750100

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RC972022 2-4	1388 --	20										
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RC972022 6-8	1388 --	10										
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RC972022 52-54	1388 --	160										
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RC972022 68-70	1388 --	225										
RC972022 70-72	1388 --	40										
RC972022 72-74	1388 --	1600										
RC972022 74-76	1388 --	160										
RC972022 76-78	1388 --	50										

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RC972022 80-82	1388 --	30										
RC972022 82-84	1388 --	10										
RC972022 84-86	1388 --	15										
RC972022 86-88	1388 --	70										
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RC972022 92-94	1388 --	110										
RC972022 94-96	1388 --	45										
RC972022 96-98	1388 --	25										
RC972022 98-100	1388 --	30										
RC972022 100-102	1388 --	10										
RC972022 102-104	1388 --	10										
RC972022 104-106	1388 --	5										

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SAMPLE	PREP CODE	Au ppb FA+AA										
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RC97-2023 2-4m	1388 --	55										
RC97-2023 4-6m	1388 --	300										
RC97-2023 6-8m	1388 --	380										
RC97-2023 8-10m	1388 --	1600										
RC97-2023 10-12m	1388 --	165										
RC97-2023 12-14m	1388 --	60										
RC97-2023 14-16m	1388 --	30										
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RC97-2023 60-62m	1388 --	7460										
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RC97-2023 66-68m	1388 --	2100										
RC97-2023 68-70m	1388 --	80										
RC97-2023 70-72m	1388 --	30										
RC97-2023 72-74m	1388 --	15										
RC97-2023 74-76m	1388 --	280										
RC97-2023 76-78m	1388 --	< 5										

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RC97-2023 88-90m	1388 --	< 5										
RC97-2023 90-92m	1388 --	5										
RC97-2023 92-94m	1388 --	10										
RC97-2023 94-96m	1388 --	5										
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RC97-2023106-108	1388 --	15										
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RC97-2023128-130	1388 --	20										

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RC972024 0-2	1388	--	15									
RC972024 2-4	1388	--	10									
RC972024 4-6	1388	--	10									
RC972024 6-8	1388	--	10									
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RC972024 16-18	1388	--	< 5									
RC972024 18-20	1388	--	< 5									
RC972024 20-22	1388	--	< 5									
RC972024 22-24	1388	--	< 5									
RC972024 24-26	1388	--	< 5									
RC972024 26-28	1388	--	< 5									
RC972024 28-30	1388	--	10									
RC972024 30-32	1388	--	< 5									
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RC972024 38-40	1388	--	10									
RC972024 40-42	1388	--	5									
RC972024 42-44	1388	--	< 5									
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RC972024 46-48	1388	--	< 5									
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RC972024 50-52	1388	--	10									
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RC972024 56-58	1388	--	10									
RC972024 58-60	1388	--	5									
RC972024 60-62	1388	--	10									
RC972024 62-64	1388	--	5									
RC972024 64-66	1388	--	10									

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CERTIFICATE OF ANALYSIS

A9750984

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RC97-2025 4-6m	1388	--	25									
RC97-2025 6-8m	1388	--	70									
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RC97-2025 10-12m	1388	--	< 5									
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RC97-2025 16-18m	1388	--	< 5									
RC97-2025 18-20m	1388	--	< 5									
RC97-2025 20-22m	1388	--	< 5									

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SAMPLE	PREP CODE	Au ppb FA+AA									
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RC972026 10-12	1388	--	< 5								
RC972026 12-14	1388	--	< 5								
RC972026 14-16	1388	--	< 5								
RC972026 16-18	1388	--	< 5								
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RC972026 22-24	1388	--	10								
RC972026 24-26	1388	--	20								
RC972026 26-28	1388	--	10								
RC972026 28-30	1388	--	150								
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RC972026 78-80	1388	--	< 5								
RC972026 80-82	1388	--	< 5								
RC972026 82-84	1388	--	25								

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SAMPLE	PREP CODE	Au ppb FA+AA										
RC972026 84-86	1388 --	< 5										
RC972026 86-88	1388 --	< 5										

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RC972027 14-16	1388 --	285										
RC972027 16-18	1388 --	250										
RC972027 18-20	1388 --	170										
RC972027 20-22	1388 --	50										
RC972027 22-24	1388 --	110										
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RC972027 58-60	1388 --	< 5										
RC972027 60-62	1388 --	< 5										
RC972027 62-64	1388 --	< 5										

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VICEROY INTERNATIONAL EXPLORATION

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CERTIFICATE OF ANALYSIS

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SAMPLE	PREP CODE	Au ppb FA+AA										
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RC972028 10-12M	1388 --	15										
RC972028 12-14M	1388 --	5										
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RC972028 16-18M	1388 --	< 5										
RC972028 18-20M	1388 --	< 5										
RC972028 20-22M	1388 --	50										
RC972028 22-24M	1388 --	95										
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RC972028 68-70M	1388 --	330										
RC972028 70-72M	1388 --	135										
RC972028 72-74M	1388 --	10										
RC972028 74-76M	1388 --	60										
RC972028 76-78M	1388 --	< 5										

CERTIFICATION:

Rick Diment



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : RC97-2028
Comments: ATTN: RICK DIMENT

Page N : 2
Total Pages : 2
Certificate Date: 25-NOV-97
Invoice No. : 19751588
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9751588

SAMPLE	PREP CODE	Au ppb FA+AA										
RC972028 78-80M	1388 --	< 5										
RC972028 80-82M	1388 --	< 5										
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RC972028 94-96M	1388 --	10										
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RC972028 98-100M	1388 --	105										
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RC972028 106-108	1388 --	100										
RC972028 108-110	1388 --	20										
RC972028 110-112	1388 --	20										

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To: VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: RC97 2029
Comments: ATTN: RICK DIMENT

Page Number : 1
Total Pages : 1
Certificate Date : 14-NOV-97
Invoice No. : 19750105
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9750105

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RC972029 2-4	1388 --	180										
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RC972029 8-10	1388 --	180										
RC972029 10-12	1388 --	180										
RC972029 12-14	1388 --	330										
RC972029 14-16	1388 --	300										
RC972029 16-18	1388 --	685										
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RC972029 20-22	1388 --	1860										
RC972029 22-24	1388 --	250										
RC972029 24-26	1388 --	1880										
RC972029 26-28	1388 --	1175										
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RC972029 30-32	1388 --	690										
RC972029 32-34	1388 --	640										
RC972029 34-36	1388 --	160										
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RC972029 38-40	1388 --	35										
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RC972029 42-44	1388 --	10										
RC972029 44-46	1388 --	10										
RC972029 46-48	1388 --	40										
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RC972029 58-60	1388 --	25										
RC972029 60-62	1388 --	30										
RC972029 62-64	1388 --	15										
RC972029 64-66	1388 --	10										
RC972029 66-68	1388 --	10										
RC972029 68-70	-- --	Not Red										

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VICEROY INTERNATIONAL EXPLORATION

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Project : RC97-2030
Comments: ATTN: RICK DIMENT

Page :1
Total Pages :2
Certificate Date: 22-NOV-97
Invoice No. :19750986
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9750986

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RC97-2030 4-6m	1388 --	< 5										
RC97-2030 6-8m	1388 --	< 5										
RC97-2030 8-10m	1388 --	70										
RC97-2030 10-12m	1388 --	15										
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RC97-2030 14-16m	1388 --	20										
RC97-2030 16-18m	1388 --	15										
RC97-2030 18-20m	1388 --	10										
RC97-2030 20-22m	1388 --	60										
RC97-2030 22-24m	1388 --	235										
RC97-2030 24-26m	1388 --	25										
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RC97-2030 34-36m	1388 --	< 5										
RC97-2030 36-38m	1388 --	< 5										
RC97-2030 38-40m	1388 --	< 5										
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RC97-2030 46-48m	1388 --	< 5										
RC97-2030 48-50m	1388 --	< 5										
RC97-2030 50-52m	1388 --	< 5										
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RC97-2030 54-56m	1388 --	< 5										
RC97-2030 56-58m	1388 --	40										
RC97-2030 58-60m	1388 --	125										
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RC97-2030 66-68m	1388 --	< 5										
RC97-2030 68-70m	1388 --	< 5										
RC97-2030 70-72m	1388 --	< 5										
RC97-2030 72-74m	1388 --	< 5										
RC97-2030 74-76m	1388 --	< 5										
RC97-2030 76-78m	1388 --	< 5										

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Project : RC97-2030
Comments: ATTN: RICK DIMENT

Page : 2
Total Pages : 2
Certificate Date: 22-NOV-97
Invoice No. : 19750986
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9750986

SAMPLE	PREP CODE	Au ppb FA+AA										
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RC97-2030 86-88m	1388 --	< 5										
RC97-2030 88-90m	1388 --	< 5										
RC97-2030 90-92m	1388 --	< 5										
RC97-2030 92-94m	1388 --	< 5										
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RC97-2030 96-98m	1388 --	< 5										
RC97-203098-100m	1388 --	< 5										

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VICEROY INTERNATIONAL EXPLORATION

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Y0B 1G0

Project: RC97-2031
Comments: ATTN: RICK DIMENT

Page : 1
Total Pages : 2
Certificate Date: 24-NOV-97
Invoice No. : 19751002
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9751002

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2031 D	1388 --	95										
RC97-2031 0-2m	1388 --	55										
RC97-2031 2-4m	1388 --	90										
RC97-2031 4-6m	1388 --	80										
RC97-2031 6-8m	1388 --	110										
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RC97-2031 12-14m	1388 --	35										
RC97-2031 14-16m	1388 --	20										
RC97-2031 16-18m	1388 --	10										
RC97-2031 18-20m	1388 --	80										
RC97-2031 20-22m	1388 --	< 5										
RC97-2031 22-24m	1388 --	< 5										
RC97-2031 24-26m	1388 --	35										
RC97-2031 26-28m	1388 --	20										
RC97-2031 28-30m	1388 --	10										
RC97-2031 30-32m	1388 --	20										
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RC97-2031 34-36m	1388 --	< 5										
RC97-2031 36-38m	1388 --	< 5										
RC97-2031 38-40m	1388 --	< 5										
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RC97-2031 68-70m	1388 --	85										
RC97-2031 70-72m	1388 --	10										
RC97-2031 72-74m	1388 --	5										
RC97-2031 74-76m	1388 --	10										
RC97-2031 76-78m	1388 --	50										

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Project: RC97-2031
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Page :2
Total Pages :2
Certificate Date: 24-NOV-97
Invoice No. :19751002
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS

A9751002

SAMPLE	PREP CODE	Au ppb FA+AA									
RC97-2031 78-80m	1388 --	445									
RC97-2031 80-82m	1388 --	40									
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RC97-2031 84-86m	1388 --	160									
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RC97-2031 88-90m	1388 --	20									
RC97-2031 90-92m	1388 --	20									
RC97-2031 92-94m	1388 --	5									
RC97-2031 94-96m	1388 --	25									
RC97-2031 96-98m	1388 --	60									
RC97-2031 98-100	1388 --	15									
RC97-2031100-102	1388 --	< 5									
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RC97-2031110-112	1388 --	20									
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RC97-2031116-118	1388 --	15									
RC97-2031118-120	1388 --	25									
RC97-2031120-122	1388 --	20									
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RC97-2031130-132	1388 --	20									
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RC97-2031138-140	1388 --	160									

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Project : RC97-2032
 Comments : ATTN: RICK DIMENT

Page : 1
 Total Pages : 2
 Certificate Date : 23-NOV-97
 Invoice No. : 19750999
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9750999

SAMPLE	PREP CODE	Au ppb FA+AA											
RC97-2032 D	1388 --	15											
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RC97-2032 2-4m	1388 --	35											
RC97-2032 4-6m	1388 --	15											
RC97-2032 6-8m	1388 --	10											
RC97-2032 8-10m	1388 --	10											
RC97-2032 10-12m	1388 --	10											
RC97-2032 12-14m	1388 --	10											
RC97-2032 14-16m	1388 --	20											
RC97-2032 16-18m	1388 --	30											
RC97-2032 18-20m	1388 --	70											
RC97-2032 20-22m	1388 --	30											
RC97-2032 22-24m	1388 --	40											
RC97-2032 24-26m	1388 --	50											
RC97-2032 26-28m	1388 --	110											
RC97-2032 28-30m	1388 --	85											
RC97-2032 30-32m	1388 --	40											
RC97-2032 32-34m	1388 --	70											
RC97-2032 34-36m	1388 --	60											
RC97-2032 36-38m	1388 --	80											
RC97-2032 38-40m	1388 --	35											
RC97-2032 40-42m	1388 --	20											
RC97-2032 42-44m	1388 --	10											
RC97-2032 44-46m	1388 --	40											
RC97-2032 46-48m	1388 --	230											
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RC97-2032 54-56m	1388 --	75											
RC97-2032 56-58m	1388 --	50											
RC97-2032 58-60m	1388 --	10											
RC97-2032 60-62m	1388 --	5											
RC97-2032 62-64m	1388 --	150											
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RC97-2032 66-68m	1388 --	20											
RC97-2032 68-70m	1388 --	20											
RC97-2032 70-72m	1388 --	10											
RC97-2032 72-74m	1388 --	10											
RC97-2032 74-76m	1388 --	20											
RC97-2032 76-78m	1388 --	30											

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Frank Vank



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Project : RC97-2032
Comments: ATTN: RICK DIMENT

Page # : 2
Total Pages : 2
Certificate Date: 23-NOV-97
Invoice No. : 19750999
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9750999

SAMPLE	PREP CODE		Au ppb FA+AA									
RC97-2032 78-80m	1388	--	15									

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Project : RC97-2033
Comments: ATTN: RICK DIMENT

Page : 1
Total Pages : 1
Certificate Date: 23-NOV-97
Invoice No. : 19751017
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9751017

SAMPLE	PREP CODE	Au ppb FA+AA										
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RC97-2033 2-4m	1388	--	15									
RC97-2033 4-6m	1388	--	5									
RC97-2033 6-8m	1388	--	5									
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RC97-2033 22-24m	1388	--	15									
RC97-2033 24-26m	1388	--	200									
RC97-2033 26-28m	1388	--	1330									
RC97-2033 28-30m	1388	--	495									
RC97-2033 30-32m	1388	--	60									
RC97-2033 32-34m	1388	--	20									
RC97-2033 34-36m	1388	--	15									
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RC97-2033 50-52m	1388	--	10									
RC97-2033 52-54m	1388	--	10									
RC97-2033 54-56m	1388	--	10									
RC97-2033 56-58m	1388	--	< 5									
RC97-2033 58-60m	1388	--	< 5									

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Project : RC97-2034
Comments: ATTN: RICK DIMENT

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Total Pages : 1
Certificate Date: 23-NOV-97
Invoice No. : 19750987
P.O. Number :
Account : OQN

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A9750987

SAMPLE	PREP CODE	Au ppb FA+AA										
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RC97-2034 2-4m	1388	--	15									
RC97-2034 4-6m	1388	--	20									
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RC97-2034 34-36m	1388	--	< 5									
RC97-2034 36-38m	1388	--	5									
RC97-2034 38-40m	1388	--	10									

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VICEROY INTERNATIONAL EXPLORATION

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Project : RC97-2035
Comments : ATTN: RICK DIMENT

Page 1 : 1
Total Pages : 1
Certificate Date: 23-NOV-97
Invoice No. : 19751019
P.O. Number :
Account : OQN

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A9751019

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2035 D	1388	--	< 5									
RC97-2035 0-2m	1388	--	20									
RC97-2035 2-4m	1388	--	10									
RC97-2035 4-6m	1388	--	< 5									
RC97-2035 6-8m	1388	--	< 5									
RC97-2035 8-10m	1388	--	40									
RC97-2035 10-12m	1388	--	10									
RC97-2035 12-14m	1388	--	< 5									
RC97-2035 14-16m	1388	--	< 5									
RC97-2035 16-18m	1388	--	20									
RC97-2035 18-20m	1388	--	5									
RC97-2035 20-22m	1388	--	10									
RC97-2035 22-24m	1388	--	10									
RC97-2035 24-26m	1388	--	25									
RC97-2035 26-28m	1388	--	65									
RC97-2035 28-30m	1388	--	90									
RC97-2035 30-32m	1388	--	15									
RC97-2035 32-34m	1388	--	10									
RC97-2035 34-36m	1388	--	50									
RC97-2035 36-38m	1388	--	295									
RC97-2035 38-40m	1388	--	110									
RC97-2035 40-42m	1388	--	< 5									
RC97-2035 42-44m	1388	--	20									
RC97-2035 44-46m	1388	--	< 5									
RC97-2035 46-48m	1388	--	< 5									
RC97-2035 48-50m	1388	--	< 5									
RC97-2035 50-52m	1388	--	< 5									
RC97-2035 52-54m	1388	--	< 5									
RC97-2035 54-56m	1388	--	< 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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: RC97-2036
 Comments: ATTN: RICK DIMENT

Page: 1
 Total Pages: 1
 Certificate Date: 24-NOV-97
 Invoice No.: 19750989
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS

A9750989

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2036 D	1388 --	< 5										
RC97-2036 0-2m	1388 --	< 5										
RC97-2036 2-4m	1388 --	< 5										
RC97-2036 4-6m	1388 --	< 5										
RC97-2036 6-8m	1388 --	< 5										
RC97-2036 8-10m	1388 --	< 5										
RC97-2036 10-12m	1388 --	< 5										
RC97-2036 12-14m	1388 --	< 5										
RC97-2036 14-16m	1388 --	< 5										
RC97-2036 16-18m	1388 --	< 5										
RC97-2036 18-20m	1388 --	< 5										
RC97-2036 20-22m	1388 --	< 5										
RC97-2036 22-24m	1388 --	< 5										
RC97-2036 24-26m	1388 --	< 5										
RC97-2036 26-28m	1388 --	< 5										
RC97-2036 28-30m	1388 --	< 5										
RC97-2036 30-32m	1388 --	< 5										
RC97-2036 32-34m	1388 --	< 5										
RC97-2036 34-36m	1388 --	< 5										
RC97-2036 36-38m	1388 --	< 5										
RC97-2036 38-40m	1388 --	10										
RC97-2036 40-42m	1388 --	40										
RC97-2036 42-44m	1388 --	60										
RC97-2036 44-46m	1388 --	55										
RC97-2036 46-48m	1388 --	185										
RC97-2036 48-50m	1388 --	830										
RC97-2036 50-52m	1388 --	580										
RC97-2036 52-54m	1388 --	740										
RC97-2036 54-56m	1388 --	50										
RC97-2036 56-58m	1388 --	40										
RC97-2036 58-60m	1388 --	20										
RC97-2036 60-62m	1388 --	15										
RC97-2036 62-64m	1388 --	10										
RC97-2036 64-66m	1388 --	20										
RC97-2036 66-68m	1388 --	30										

CERTIFICATION:

Shawn Vonk



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British Columbia, Canada V7J 2C1
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : RC97-2037
Comments: ATTN: RICK DIMENT

Page : 1
Total Pages : 1
Certificate Date: 22-NOV-97
Invoice No. : 19750993
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9750993

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2037 D	1388 --	< 5										
RC97-2037 0-2m	1388 --	< 5										
RC97-2037 2-4m	1388 --	< 5										
RC97-2037 4-6m	1388 --	5										
RC97-2037 6-8m	1388 --	5										
RC97-2037 8-10m	1388 --	< 5										
RC97-2037 10-12m	1388 --	< 5										
RC97-2037 12-14m	1388 --	< 5										
RC97-2037 14-16m	1388 --	< 5										
RC97-2037 16-18m	1388 --	165										
RC97-2037 18-20m	1388 --	< 5										
RC97-2037 20-22m	1388 --	65										
RC97-2037 22-24m	1388 --	410										
RC97-2037 24-26m	1388 --	310										
RC97-2037 26-28m	1388 --	40										
RC97-2037 28-30m	1388 --	25										
RC97-2037 30-32m	1388 --	10										
RC97-2037 32-34m	1388 --	< 5										
RC97-2037 34-36m	1388 --	< 5										
RC97-2037 36-38m	1388 --	< 5										
RC97-2037 38-40m	1388 --	< 5										
RC97-2037 40-42m	1388 --	< 5										
RC97-2037 42-44m	1388 --	< 5										

CERTIFICATION:

Theresa Vornh



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: RC97-2038
Comments: ATTN: RICK DIMENT

Page :1
Total Pages :1
Certificate Date: 22-NOV-97
Invoice No. :19750990
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9750990

SAMPLE	PREP CODE	Au ppb FA+AA										
RC97-2038 D	1388 --	15										
RC97-2038 0-2m	1388 --	30										
RC97-2038 2-4m	1388 --	40										
RC97-2038 4-6m	1388 --	20										
RC97-2038 6-8m	1388 --	10										
RC97-2038 8-10m	1388 --	< 5										
RC97-2038 10-12m	1388 --	10										
RC97-2038 12-14m	1388 --	45										
RC97-2038 14-16m	1388 --	30										
RC97-2038 16-18m	1388 --	20										
RC97-2038 18-20m	1388 --	5										
RC97-2038 20-22m	1388 --	20										
RC97-2038 22-24m	1388 --	60										
RC97-2038 24-26m	1388 --	80										
RC97-2038 26-28m	1388 --	10										
RC97-2038 28-30m	1388 --	< 5										
RC97-2038 30-32m	1388 --	< 5										
RC97-2038 32-34m	1388 --	< 5										
RC97-2038 34-36m	1388 --	< 5										
RC97-2038 36-38m	1388 --	< 5										
RC97-2038 38-40m	1388 --	< 5										
RC97-2038 40-42m	1388 --	< 5										

CERTIFICATION:

[Signature]

**1997 Rock Samples
Assay Results**

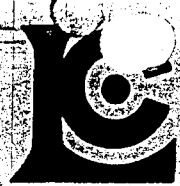
Sample ID	Au grade (g/T)
M454009	0.05
M454010	0.03
M454011	0.09
M454013	0.03
M454014	0.01
M454015	0.01
M454016	0.03
M454017	0.03
M454018	0.03
M454019	0.07
M454021	0.02
M454022	0.02
M454023	0.02
M454024	0.08
M454027	0.25
M454028	0.09
M454029	0.06
M454030	0.05
M454031	0.04
M454032	0.03
M454033	0.04
M454034	1.7
M454035	0.03
M454037	0.05
M454038	0.07
M454039	0.13
M454040	0.06
M454041	0.04
M454047	1.32
M454051	0.03
M454052	0.11
M454053	0.19
M454054	0.21
M454055	0.1
M454057	0.01
M454058	0.31
M454059	0.14
M454060	0.13
M454061	0.11
M454062	1.04
M454064	0.09
M454065	0.2
M454066	0.11
M454067	0.16
M454068	0.02
M454101	0.14
M454102	0.04
M454103	0.02
M454104	0.04
M454105	0.01
M454106	0.32
M454107	0.03
M454108	0.24
M454109	0.01
M454110	0.01
M454111	0.27
M454112	0.1
M454113	0.27
M454114	0.9

**1997 Rock Samples
Assay Results**

Sample ID	Au grade (g/T)
M454115	0.67
M454116	2.04
M454117	0.2
M454118	12.29
M454119	9.75
M454120	7.35
M454121	0.09
M454122	0.04
M454123	0.01
M454124	0.01
M454126	0.05
M454127	0.01
M454129	0.01
M454130	0.01
M454143	0.08
M454144	0.01
M454151	3.77
M454152	2.5
M454153	0.16
M454154	0.07
M454155	0.06
M454156	0.01
M454157	0.02
M454158	0.08
M454159	0.52
M515701	0.03
M515702	0.59
M515703	0.03
M515704	0.05
M515705	0.01
M515706	0.02
M515713	0.03
M515714	0.01
M515715	0.01
M515716	0.01
M515717	0.01
M515718	0.01
M515727	0.64
M515728	0.01
M515729	0.01
M515730	0.01
M515731	0.01
M515732	0.09
M515733	0.01
M515734	0.01
M515735	2.3
M515736	0.02
M515921	0.17
M515922	0.2
M515923	0.07
M515924	0.37
M515925	0.25
M515926	0.43
M515927	0.09
M515928	0.13
M515929	0.23
M515930	0.31
M515931	0.06
M515932	0.06

**1997 Rock Samples
Assay Results**

Sample ID	Au grade (g/T)
M519896	0.99
M519990	1.87
M594804	0.47
M594805	0.16
M594806	0.24
M594807	0.67
M594808	0.15
M594809	0.6
M595451	0.76
M595452	0.76
M595453	1.52
M595454	0.19
M595455	0.15
M595462	0.01
M595463	0.09
M595464	0.12
M595466	0.08
M595467	0.02
M595468	0.06
M595469	3.8
M595470	0.64
M595471	0.11
M595472	0.03
M595473	0.04
M595474	0.84
M595477	0.06
M595478	0.05
M595479	0.07
M595481	0.12
M595482	0.07
M595483	0.04
M595484	2.39
M595485	1.33
M595486	0.15
M595499	0.09



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Pa. Arrh. : 1-A
 Total Par : 5
 Certificate : 29-SEP-97
 Invoice No. : I9742958
 P.O. Number :
 Account : LDS

Project : BREWERY CREEK
 Comments : ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9742958

SAMPLE	PREP CODE		As	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
			ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm
21800E 16000W	201	202	15	1.0	1.73	22	3030	0.5	< 2	0.53	23.0	8	93	129	2.26	< 10	60	0.05	20	2.15	475
21800E 16025W	201	202	20	0.2	1.81	28	2010	< 0.5	< 2	0.32	8.0	7	49	42	2.30	< 10	10	0.03	< 10	0.58	175
21800E 16050W	201	202	< 5	0.2	1.45	14	1540	0.5	< 2	0.37	15.5	6	39	41	2.19	< 10	100	0.03	10	0.44	250
21800E 16075W	201	202	15	3.2	0.99	10	6670	0.5	< 2	5.89	30.0	5	126	174	0.88	< 10	420	0.10	10	0.58	285
21800E 16100W	201	202	10	2.2	0.93	10	4250	1.0	< 2	4.22	29.0	6	72	156	1.09	< 10	810	0.04	10	0.64	465
21800E 16125W	201	202	< 5	0.6	0.28	< 2	690	< 0.5	< 2	3.63	26.5	1	14	59	0.38	< 10	130	0.01	< 10	0.09	105
21800E 16150W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21800E 16175W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21800E 16200W	201	202	< 5	1.2	0.81	48	1120	0.5	< 2	0.45	2.0	3	53	37	2.42	< 10	20	0.03	20	0.25	85
21800E 16225W	201	202	< 5	0.2	0.49	42	270	< 0.5	< 2	0.05	1.0	1	21	17	1.24	< 10	10	0.02	10	0.06	50
21800E 16250W	201	202	20	2.0	0.75	6	1370	0.5	< 2	0.41	3.0	2	42	68	0.93	< 10	100	0.03	20	0.12	40
21800E 16275W	201	202	25	2.8	0.60	10	710	0.5	< 2	0.32	3.5	1	38	78	0.78	< 10	210	0.03	10	0.07	30
21800E 16300W	201	202	< 5	3.0	0.87	< 2	640	1.5	< 2	0.71	5.0	3	25	177	1.15	< 10	110	0.01	30	0.10	40
21800E 16325W	201	202	< 5	1.2	0.44	< 2	620	0.5	< 2	0.29	0.5	2	15	26	0.82	< 10	90	0.02	< 10	0.04	30
21800E 16350W	201	202	< 5	1.8	0.57	18	390	1.5	< 2	2.02	6.0	6	20	144	0.73	< 10	140	0.02	10	0.21	975
21800E 16375W	201	202	< 5	4.6	0.34	< 2	510	< 0.5	< 2	0.24	4.0	1	25	32	0.47	< 10	110	0.04	< 10	0.05	50
21800E 16400W	201	202	< 5	2.0	0.68	10	900	1.0	< 2	3.42	41.0	4	44	152	0.66	< 10	90	0.04	10	0.22	570
21800E 16425W	201	202	10	2.6	1.45	52	2840	1.5	< 2	1.33	7.5	11	70	122	1.76	< 10	270	0.04	10	0.76	760
21800E 16450W	201	202	< 5	0.6	0.40	8	360	0.5	< 2	3.44	15.5	3	18	81	0.60	< 10	60	0.02	< 10	0.31	250
21800E 16475W	201	202	< 5	0.6	0.45	10	400	0.5	< 2	2.69	12.5	3	22	57	0.66	< 10	50	0.03	< 10	0.34	135
21800E 16500W	201	202	25	1.6	1.52	98	1530	2.0	< 2	2.41	11.5	9	65	184	2.43	< 10	130	0.06	30	0.92	315
21800E 16525W	201	202	10	0.2	1.61	60	1580	0.5	< 2	0.62	3.0	7	50	49	1.98	< 10	40	0.06	10	0.65	165
21800E 16550W	201	202	50	1.2	1.72	124	2750	1.5	< 2	0.60	3.0	10	54	117	2.46	< 10	80	0.06	30	0.90	225
21800E 16575W	201	202	20	0.4	1.78	20	1850	0.5	< 2	0.36	0.5	5	34	24	1.96	< 10	10	0.04	10	0.66	90
21800E 16600W	201	202	< 5	0.2	1.77	12	1390	0.5	< 2	0.31	0.5	6	37	25	2.06	< 10	20	0.05	10	0.65	120
21800E 16625W	201	202	< 5	0.2	1.65	22	1130	0.5	< 2	0.23	< 0.5	6	37	28	2.02	< 10	10	0.04	10	0.67	110
21800E 16650W	201	202	< 5	< 0.2	1.73	10	820	0.5	< 2	0.36	< 0.5	6	37	29	1.95	< 10	10	0.05	10	0.71	150
21800E 16675W	201	202	< 5	0.2	1.34	12	1370	< 0.5	< 2	1.04	4.0	7	20	26	1.46	< 10	30	0.04	< 10	0.37	1095
21800E 16700W	201	202	< 5	0.6	2.56	22	830	1.5	< 2	0.67	2.5	22	34	35	2.61	< 10	40	0.07	10	0.80	780
21800E 16725W	201	202	< 5	0.2	3.24	20	910	0.5	< 2	0.48	0.5	13	46	22	2.78	< 10	20	0.07	10	0.93	400
21800E 16750W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21800E 16775W	201	202	< 5	< 0.2	3.59	10	350	0.5	< 2	0.61	< 0.5	9	43	25	2.71	< 10	< 10	0.10	10	1.23	320
21800E 16800W	201	202	< 5	0.2	2.12	6	280	< 0.5	< 2	0.31	1.5	15	33	11	2.51	< 10	10	0.03	10	0.69	480
21800E 16825W	201	202	< 5	1.2	2.61	24	530	0.5	< 2	0.21	1.0	17	52	36	3.87	< 10	40	0.06	10	0.73	315
21800E 16850W	201	202	< 5	0.2	3.53	24	1520	0.5	< 2	0.36	< 0.5	25	72	32	4.54	< 10	10	0.07	10	1.09	365
21800E 16875W	201	202	< 5	0.6	1.39	6	600	1.5	< 2	1.03	2.0	8	27	49	2.11	< 10	80	0.12	40	0.68	720
21800E 16900W	201	202	< 5	0.2	1.65	10	350	0.5	< 2	0.64	2.5	10	46	50	3.12	< 10	30	0.22	20	1.13	525
21800E 16925W	201	202	< 5	0.2	1.87	16	240	0.5	< 2	0.64	2.5	7	37	32	3.07	< 10	20	0.26	10	0.65	225
21800E 16950W	201	202	< 5	0.2	1.74	10	330	0.5	< 2	0.54	4.0	9	34	29	3.30	< 10	10	0.21	30	0.65	405
21800E 16975W	201	202	< 5	0.2	2.16	14	470	1.0	< 2	0.40	0.5	12	38	23	3.87	< 10	20	0.10	20	0.68	640

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

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

VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Pa : 1-B
 Total Pa : 5
 Certificate : 29-SEP-97
 Invoice No. : 19742958
 P.O. Number :
 Account : LDS

Project : BREWERY CREEK
 Comments : ATTN:RICK DIMENT

CERTIFICATE OF ANALYSIS A9742958

SAMPLE	PREP CODE	Mo ppm	Na ppm	Al ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21800E 16000W	201 202	< 1	< 0.01	273	840	20	8	4	338	0.05	< 10	< 10	1025	< 10	6820
21800E 16025W	201 202	< 1	< 0.01	106	260	12	< 2	3	68	0.04	< 10	< 10	874	< 10	2510
21800E 16050W	201 202	< 1	< 0.01	71	530	10	< 2	3	37	0.04	< 10	< 10	607	< 10	1395
21800E 16075W	201 202	< 1	0.02	199	8430	16	< 2	2	252	0.01	< 10	< 10	688	< 10	1910
21800E 16100W	201 202	< 1	0.01	163	5800	10	2	2	222	0.01	< 10	< 10	418	< 10	1330
21800E 16125W	201 202	< 1	0.01	36	960	< 2	4	< 1	92	< 0.01	< 10	< 10	314	< 10	462
21800E 16150W	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21800E 16175W	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21800E 16200W	201 202	< 1	< 0.01	59	3350	22	14	2	55	0.02	< 10	< 10	211	< 10	436
21800E 16225W	201 202	< 1	< 0.01	12	730	12	< 2	< 1	14	< 0.01	< 10	< 10	67	< 10	74
21800E 16250W	201 202	< 1	0.01	56	950	8	4	< 1	41	0.01	< 10	< 10	34	< 10	188
21800E 16275W	201 202	< 1	0.01	43	1170	12	8	< 1	31	< 0.01	< 10	< 10	48	< 10	166
21800E 16300W	201 202	< 1	< 0.01	149	1400	8	10	1	52	0.02	< 10	< 10	25	< 10	340
21800E 16325W	201 202	< 1	0.01	18	960	8	< 2	1	27	0.01	< 10	< 10	14	< 10	46
21800E 16350W	201 202	5	0.01	81	1910	< 2	10	2	80	0.01	< 10	< 10	35	< 10	170
21800E 16375W	201 202	3	0.01	17	560	4	< 2	< 1	27	0.03	< 10	< 10	100	< 10	138
21800E 16400W	201 202	1	0.01	135	2560	6	8	1	166	0.01	< 10	< 10	258	< 10	1025
21800E 16425W	201 202	2	0.01	110	2670	18	2	3	92	0.03	< 10	< 10	285	< 10	770
21800E 16450W	201 202	5	0.01	73	1150	< 2	34	< 1	127	0.01	< 10	10	181	< 10	278
21800E 16475W	201 202	12	0.01	63	970	4	30	1	122	0.02	< 10	< 10	139	< 10	346
21800E 16500W	201 202	1	0.01	141	1680	20	34	5	130	0.06	< 10	< 10	234	< 10	718
21800E 16525W	201 202	4	< 0.01	61	680	16	10	3	45	0.06	< 10	< 10	137	< 10	254
21800E 16550W	201 202	2	0.01	78	890	20	22	5	64	0.07	< 10	< 10	142	< 10	284
21800E 16575W	201 202	6	< 0.01	31	260	14	2	3	39	0.08	< 10	< 10	128	< 10	110
21800E 16600W	201 202	6	< 0.01	33	330	12	< 2	3	41	0.07	< 10	< 10	158	< 10	128
21800E 16625W	201 202	9	< 0.01	36	250	12	2	3	36	0.07	< 10	< 10	234	< 10	126
21800E 16650W	201 202	10	< 0.01	36	290	10	< 2	3	47	0.07	< 10	< 10	191	< 10	130
21800E 16675W	201 202	9	< 0.01	38	370	12	2	2	74	0.05	< 10	< 10	110	< 10	348
21800E 16700W	201 202	8	< 0.01	87	630	26	2	2	74	0.09	< 10	< 10	172	< 10	442
21800E 16725W	201 202	1	< 0.01	45	450	24	< 2	3	65	0.13	< 10	< 10	105	< 10	212
21800E 16750W	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21800E 16775W	201 202	< 1	< 0.01	41	320	16	< 2	4	152	0.11	< 10	< 10	69	< 10	218
21800E 16800W	201 202	< 1	< 0.01	24	180	22	2	3	43	0.16	< 10	< 10	89	< 10	226
21800E 16825W	201 202	3	< 0.01	39	470	14	2	4	72	0.13	< 10	< 10	141	< 10	172
21800E 16850W	201 202	< 1	0.01	48	360	20	< 2	5	55	0.16	< 10	< 10	114	< 10	108
21800E 16875W	201 202	1	< 0.01	37	1380	14	< 2	5	89	0.05	< 10	< 10	84	< 10	78
21800E 16900W	201 202	1	< 0.01	34	1080	18	84	4	61	0.11	< 10	< 10	114	< 10	114
21800E 16925W	201 202	4	< 0.01	26	1640	20	< 2	4	44	0.09	< 10	< 10	101	< 10	98
21800E 16950W	201 202	1	< 0.01	22	1740	16	< 2	5	45	0.13	< 10	< 10	96	< 10	96
21800E 16975W	201 202	< 1	< 0.01	20	1050	22	< 2	5	34	0.14	< 10	< 10	108	< 10	116

CERTIFICATION: Hart Bichler



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page: 2-A
 Total: 5
 Certificate: 29-SEP-97
 Invoice No.: 19742958
 P.O. Number:
 Account: LDS

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9742958

SAMPLE	PREP CODE		An	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	FA-AA	PPM	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm
21800E 17000W	201	202	< 5	< 0.2	1.56	12	310	2.0	< 2	0.24	< 0.5	7	27	22	3.13	< 10	20	0.13	40	0.52	220
21600E 17125W	201	202	< 5	0.8	1.18	8	280	0.5	< 2	0.66	5.0	4	17	29	1.14	< 10	100	0.06	10	0.32	80
21600E 17150W	201	202	< 5	0.6	1.97	14	230	0.5	< 2	0.31	3.5	6	32	25	2.22	< 10	60	0.06	10	0.55	165
21600E 17175W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21600E 17200W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21600E 17225W	201	202	< 5	< 0.2	2.62	28	320	0.5	< 2	0.44	0.5	10	43	19	2.82	< 10	10	0.07	10	0.68	185
21600E 17250W	201	202	< 5	0.8	1.83	6	350	0.5	< 2	0.27	5.5	11	29	13	2.30	< 10	30	0.04	10	0.44	705
21600E 17275W	201	202	< 5	0.6	1.89	12	210	< 0.5	< 2	0.30	< 0.5	6	35	15	2.55	< 10	30	0.06	10	0.56	200
21600E 17300W	201	202	< 5	< 0.2	1.85	14	210	< 0.5	< 2	0.19	< 0.5	5	31	13	2.29	< 10	10	0.05	10	0.43	145
21600E 17325W	201	202	< 5	< 0.2	1.64	20	160	< 0.5	< 2	0.16	< 0.5	4	30	12	2.11	< 10	10	0.04	10	0.39	135
21600E 17350W	201	202	< 5	< 0.2	1.92	16	200	< 0.5	< 2	0.20	< 0.5	5	31	13	2.31	< 10	20	0.04	10	0.45	135
21600E 17375W	201	202	< 5	0.4	1.91	12	220	< 0.5	< 2	0.20	< 0.5	5	29	15	2.15	< 10	20	0.05	10	0.44	135
21600E 17400W	201	202	< 5	0.4	2.07	16	240	< 0.5	< 2	0.20	< 0.5	5	31	15	2.48	< 10	20	0.05	10	0.47	165
21600E 17425W	201	202	< 5	0.8	2.10	32	280	< 0.5	< 2	0.18	0.5	8	35	14	2.97	< 10	10	0.05	10	0.46	525
21600E 17450W	201	202	< 5	0.2	1.80	32	310	< 0.5	< 2	0.31	0.5	6	34	18	2.59	< 10	40	0.06	10	0.54	210
21600E 17475W	201	202	< 5	0.4	1.96	30	250	< 0.5	< 2	0.21	< 0.5	5	30	16	2.57	< 10	30	0.04	10	0.47	135
21600E 17500W	201	202	< 5	1.4	2.17	70	490	0.5	< 2	0.34	1.0	7	36	47	2.81	< 10	30	0.05	10	0.48	355
21600E 17525W	201	202	< 5	0.8	1.40	42	330	< 0.5	< 2	0.28	2.0	6	26	23	2.12	< 10	20	0.07	10	0.27	405
21600E 17550W	201	202	< 5	0.4	2.15	20	390	< 0.5	< 2	0.16	1.5	15	31	15	3.17	< 10	10	0.06	10	0.54	1115
21600E 17575W	201	202	< 5	0.4	2.01	8	310	< 0.5	< 2	0.17	0.5	7	30	10	3.27	< 10	10	0.04	10	0.45	275
21600E 17600W	201	202	< 5	0.2	2.00	10	250	< 0.5	< 2	0.18	1.5	9	31	10	3.09	< 10	20	0.04	10	0.50	390
21600E 17625W	201	202	< 5	< 0.2	0.91	8	140	< 0.5	< 2	0.11	< 0.5	3	18	12	1.36	< 10	40	0.04	10	0.14	160
21600E 17650W	201	202	< 5	< 0.2	1.53	6	150	< 0.5	< 2	0.13	< 0.5	6	22	9	2.54	< 10	10	0.04	10	0.40	195
21600E 17675W	201	202	< 5	< 0.2	2.16	14	130	< 0.5	< 2	0.12	< 0.5	7	34	9	3.97	< 10	20	0.05	10	0.43	325
21600E 17700W	201	202	< 5	< 0.2	1.83	16	120	< 0.5	< 2	0.10	< 0.5	7	32	10	4.37	< 10	30	0.04	10	0.42	280
21600E 17725W	201	202	< 5	< 0.2	1.85	18	230	< 0.5	< 2	0.24	0.5	7	30	14	3.11	< 10	20	0.05	10	0.48	195
21600E 17750W	201	202	< 5	< 0.2	1.74	16	140	< 0.5	< 2	0.16	< 0.5	5	29	12	3.19	< 10	10	0.05	10	0.42	155
21600E 17775W	201	202	< 5	0.8	0.71	< 2	180	< 0.5	< 2	0.62	1.5	2	21	32	0.94	< 10	60	0.04	10	0.12	70
21600E 17800W	201	202	< 5	2.6	2.37	20	450	0.5	< 2	1.41	1.0	9	47	54	2.30	< 10	100	0.07	10	0.99	395
21600E 17825W	201	202	< 5	1.0	1.11	8	320	0.5	< 2	2.75	2.0	6	23	33	1.13	< 10	90	0.03	10	0.34	225
21600E 17850W	201	202	< 5	1.0	1.74	10	460	0.5	< 2	1.88	3.5	11	42	62	1.86	< 10	340	0.06	10	0.74	395
21600E 17875W	201	202	< 5	0.6	1.78	6	360	0.5	< 2	0.75	4.0	10	38	37	2.03	< 10	200	0.05	10	0.68	340
21600E 17900W	201	202	< 5	0.4	1.51	12	470	0.5	< 2	1.21	4.0	9	32	46	1.94	< 10	170	0.04	10	0.51	475
21600E 17925W	201	202	< 5	0.2	1.43	12	380	< 0.5	< 2	1.16	3.0	7	29	27	1.88	< 10	130	0.04	10	0.48	340
21600E 17950W	201	202	< 5	0.2	1.72	2	390	< 0.5	< 2	0.75	2.5	9	33	26	2.25	< 10	90	0.05	10	0.54	410
21600E 17975W	201	202	< 5	0.2	1.68	12	460	< 0.5	< 2	0.71	2.0	8	31	42	2.12	< 10	140	0.06	10	0.51	285
21600E 18000W	201	202	< 5	0.2	1.70	8	440	< 0.5	< 2	0.73	2.5	7	33	39	2.12	< 10	150	0.06	10	0.49	285
21800E 17100W	201	202	< 5	< 0.2	2.18	30	310	0.5	< 2	0.56	4.0	9	31	55	2.56	< 10	40	0.05	30	0.72	470
21800E 17125W	201	202	< 5	0.8	2.43	6	330	0.5	< 2	0.50	0.5	13	40	32	2.94	< 10	20	0.05	10	0.74	730
21800E 17150W	201	202	< 5	0.8	2.15	18	480	1.0	< 2	0.57	1.5	16	40	37	3.19	< 10	30	0.14	30	0.66	640

CERTIFICATION:

Hart Bechler



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Pa: :2-B
 Total Pa: :5
 Certificate: :29-SEP-97
 Invoice No: :19742958
 P.O. Number: :
 Account: :LDS

CERTIFICATE OF ANALYSIS

A9742958

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21800E 17000N	201 202	< 1	< 0.01	15	560	18	2	6	31	0.12	< 10	< 10	88	< 10	72
21600E 17125N	201 202	1	0.01	20	1460	18	2	1	46	0.03	< 10	< 10	24	< 10	58
21600E 17150N	201 202	< 1	< 0.01	24	640	22	2	3	24	0.08	< 10	< 10	54	< 10	118
21600E 17175N	---	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21600E 17200N	---	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21600E 17225N	201 202	< 1	< 0.01	29	330	26	< 2	3	49	0.11	< 10	< 10	87	< 10	96
21600E 17250N	201 202	< 1	< 0.01	23	440	16	< 2	3	22	0.07	< 10	< 10	74	< 10	200
21600E 17275N	201 202	< 1	< 0.01	23	590	10	< 2	3	23	0.07	< 10	< 10	71	< 10	98
21600E 17300N	201 202	< 1	< 0.01	15	800	12	< 2	3	18	0.05	< 10	< 10	65	< 10	74
21600E 17325N	201 202	< 1	< 0.01	16	630	12	< 2	1	16	0.04	< 10	< 10	56	< 10	66
21600E 17350N	201 202	< 1	< 0.01	18	530	12	< 2	3	18	0.06	< 10	< 10	60	< 10	72
21600E 17375N	201 202	< 1	< 0.01	16	330	12	< 2	3	18	0.06	< 10	< 10	62	< 10	66
21600E 17400N	201 202	< 1	< 0.01	20	370	10	< 2	3	18	0.06	< 10	< 10	66	< 10	80
21600E 17425N	201 202	< 1	< 0.01	18	530	12	< 2	3	17	0.07	< 10	< 10	89	< 10	104
21600E 17450N	201 202	< 1	< 0.01	23	630	10	< 2	3	24	0.06	< 10	< 10	72	< 10	78
21600E 17475N	201 202	< 1	< 0.01	18	430	10	< 2	3	17	0.05	< 10	< 10	61	< 10	62
21600E 17500N	201 202	1	0.01	29	690	16	< 2	3	25	0.05	< 10	< 10	87	< 10	88
21600E 17525N	201 202	1	0.01	18	850	14	< 2	1	24	0.04	< 10	< 10	68	< 10	86
21600E 17550N	201 202	1	< 0.01	18	480	18	< 2	3	15	0.07	< 10	< 10	75	< 10	84
21600E 17575N	201 202	< 1	< 0.01	15	290	12	< 2	3	15	0.07	< 10	< 10	71	< 10	96
21600E 17600N	201 202	1	< 0.01	17	280	16	< 2	3	14	0.06	< 10	< 10	64	< 10	154
21600E 17625N	201 202	1	0.01	8	520	10	< 2	< 1	14	0.01	< 10	< 10	50	< 10	26
21600E 17650N	201 202	< 1	< 0.01	13	200	14	< 2	2	12	0.06	< 10	< 10	52	< 10	48
21600E 17675N	201 202	1	< 0.01	13	360	12	< 2	3	14	0.07	< 10	< 10	71	< 10	58
21600E 17700N	201 202	< 1	< 0.01	14	280	12	< 2	3	12	0.06	< 10	< 10	60	< 10	52
21600E 17725N	201 202	< 1	< 0.01	21	460	16	< 2	3	19	0.07	< 10	< 10	67	< 10	84
21600E 17750N	201 202	< 1	< 0.01	14	420	12	< 2	2	16	0.06	< 10	< 10	85	< 10	60
21600E 17775N	201 202	1	0.02	18	840	6	< 2	< 1	38	0.01	< 10	< 10	30	< 10	40
21600E 17800N	201 202	< 1	0.01	51	1300	16	< 2	4	66	0.05	< 10	< 10	79	< 10	222
21600E 17825N	201 202	< 1	0.01	20	1330	4	< 2	2	84	0.03	< 10	< 10	36	< 10	84
21600E 17850N	201 202	1	< 0.01	77	1400	8	< 2	4	90	0.05	< 10	< 10	155	< 10	668
21600E 17875N	201 202	< 1	< 0.01	50	1140	10	< 2	4	44	0.05	< 10	< 10	115	< 10	368
21600E 17900N	201 202	< 1	< 0.01	49	1230	8	< 2	3	61	0.04	< 10	< 10	127	< 10	328
21600E 17925N	201 202	1	< 0.01	33	1010	6	< 2	3	55	0.04	< 10	< 10	94	< 10	278
21600E 17950N	201 202	2	< 0.01	33	930	8	< 2	4	41	0.05	< 10	< 10	104	< 10	274
21600E 17975N	201 202	1	< 0.01	36	1020	8	< 2	4	41	0.05	< 10	< 10	98	< 10	266
21600E 18000N	201 202	1	< 0.01	34	1120	6	< 2	3	42	0.05	< 10	< 10	104	< 10	244
21800E 17100N	201 202	1	< 0.01	40	770	22	< 2	4	52	0.08	< 10	< 10	114	< 10	552
21800E 17125N	201 202	1	< 0.01	30	960	24	2	4	35	0.12	< 10	< 10	92	< 10	170
21800E 17150N	201 202	< 1	< 0.01	29	1650	26	< 2	5	44	0.12	< 10	< 10	98	< 10	174

CERTIFICATION: Hart Buchler



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page: 3-A
 Total Pages: 5
 Certificate: 29-SEP-97
 Invoice No.: 19742958
 P.O. Number:
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Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9742958

SAMPLE	PREP CODE	An ppb FA-AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
21800E 17175N	201 202	< 5	0.4	1.52	8	490	0.5	< 2	0.65	5.5	13	28	19	2.70	< 10	30	0.17	20	0.48	920
21800E 17200N	201 202	< 5	0.2	1.97	10	490	2.0	< 2	0.26	0.5	12	30	20	3.28	< 10	10	0.12	40	0.60	780
21800E 17225N	201 202	< 5	0.2	1.89	8	390	1.0	< 2	0.22	0.5	10	31	16	3.30	< 10	30	0.16	20	0.57	620
21800E 17250N	201 202	< 5	< 0.2	1.77	16	180	0.5	< 2	0.19	< 0.5	8	29	14	3.13	< 10	10	0.07	10	0.55	245
21800E 17275N	201 202	< 5	< 0.2	1.97	16	170	0.5	< 2	0.12	< 0.5	8	29	12	3.22	< 10	10	0.05	10	0.51	315
21800E 17300N	201 202	< 5	< 0.2	1.96	16	190	0.5	< 2	0.14	< 0.5	8	30	14	3.34	< 10	10	0.06	10	0.57	240
21800E 17325N	201 202	< 5	< 0.2	1.77	10	170	0.5	< 2	0.18	< 0.5	7	28	15	2.97	< 10	10	0.06	20	0.53	210
21800E 17350N	201 202	< 5	< 0.2	1.71	12	180	0.5	< 2	0.30	0.5	8	28	18	3.06	< 10	10	0.08	30	0.58	275
21800E 17375N	201 202	< 5	< 0.2	2.17	10	180	0.5	< 2	0.14	< 0.5	8	32	15	3.09	< 10	20	0.05	30	0.52	250
21800E 17400N	201 202	< 5	< 0.2	2.30	20	200	0.5	< 2	0.26	< 0.5	10	35	26	3.40	< 10	20	0.12	30	0.65	255
21800E 17425N	201 202	< 5	< 0.2	1.65	6	120	< 0.5	< 2	0.16	< 0.5	4	28	10	2.72	< 10	10	0.06	20	0.37	125
21800E 17450N	201 202	< 5	< 0.2	1.61	12	90	< 0.5	< 2	0.21	0.5	6	29	12	3.23	< 10	10	0.06	10	0.49	220
21800E 17475N	201 202	< 5	< 0.2	2.24	12	190	0.5	< 2	0.19	0.5	9	35	18	2.72	< 10	40	0.05	10	0.54	375
21800E 17500N	201 202	< 5	< 0.2	3.31	50	1030	1.0	4	1.10	9.0	6	73	87	3.51	< 10	60	0.04	10	0.58	305
21800E 17525N	201 202	< 5	< 0.2	1.32	30	240	< 0.5	< 2	1.02	2.5	2	95	51	1.67	< 10	20	0.06	10	0.33	120
21800E 17550N	201 202	< 5	< 0.2	3.06	28	400	2.0	< 2	0.49	3.5	10	74	59	3.89	< 10	50	0.15	30	0.85	400
21800E 17575N	201 202	< 5	< 0.2	2.16	12	240	2.0	< 2	0.34	0.5	9	46	19	3.18	< 10	10	0.11	30	0.80	340
21800E 17600N	201 202	< 5	< 0.2	1.97	10	200	0.5	< 2	0.23	< 0.5	8	36	15	2.83	< 10	10	0.05	10	0.58	360
21800E 17625N	201 202	< 5	< 0.2	1.62	2	170	< 0.5	< 2	0.22	< 0.5	5	29	10	2.07	< 10	40	0.05	10	0.43	140
21800E 17650N	201 202	< 5	0.2	1.69	12	170	< 0.5	< 2	0.24	< 0.5	6	28	11	2.30	< 10	30	0.05	10	0.46	220
21800E 17675N	201 202	< 5	0.2	1.55	16	230	< 0.5	< 2	0.38	< 0.5	5	30	14	2.09	< 10	30	0.04	10	0.47	180
21800E 17700N	201 202	< 5	0.6	1.70	20	270	0.5	< 2	0.32	< 0.5	6	33	21	2.09	< 10	40	0.05	10	0.51	145
21800E 17725N	201 202	< 5	0.6	1.40	22	210	< 0.5	< 2	0.33	0.5	7	30	17	2.16	< 10	60	0.05	10	0.44	250
21800E 17750N	201 202	< 5	0.4	1.18	14	220	< 0.5	< 2	0.48	1.0	5	32	16	1.87	< 10	30	0.05	10	0.43	245
21800E 17775N	201 202	< 5	1.6	0.66	10	230	< 0.5	< 2	3.19	9.0	2	26	54	0.78	< 10	80	0.03	< 10	0.18	265
21800E 17800N	201 202	< 5	1.2	1.61	18	380	0.5	< 2	0.51	1.5	5	42	30	2.02	< 10	40	0.04	10	0.47	170
21800E 17825N	201 202	< 5	0.2	1.76	14	270	< 0.5	< 2	0.33	0.5	5	36	15	2.13	< 10	20	0.05	10	0.51	140
21800E 17850N	201 202	< 5	0.8	2.14	12	210	< 0.5	< 2	0.18	0.5	6	42	13	2.59	< 10	40	0.04	10	0.42	250
21800E 17875N	201 202	< 5	2.0	2.55	10	390	0.5	< 2	0.47	4.5	10	57	24	2.75	< 10	60	0.04	10	0.67	465
21800E 17900N	201 202	< 5	1.0	2.86	10	440	0.5	< 2	0.64	1.5	12	80	31	2.94	< 10	50	0.05	20	0.88	320
21800E 17925N	201 202	< 5	0.4	1.92	8	210	< 0.5	< 2	0.38	1.0	8	41	18	2.36	< 10	30	0.05	10	0.52	250
21800E 17950N	201 202	< 5	< 0.2	2.12	10	170	< 0.5	< 2	0.22	1.5	7	44	14	2.83	< 10	30	0.05	10	0.56	265
21800E 17975N	201 202	< 5	< 0.2	2.39	8	330	0.5	< 2	0.43	1.5	10	63	28	2.92	< 10	20	0.04	10	0.63	440
21800E 18000N	201 202	< 5	0.8	1.76	12	260	0.5	< 2	0.67	3.0	9	58	36	2.39	< 10	40	0.05	10	0.72	475
22000E 16025N	201 202	not/ss	0.6	0.29	14	690	< 0.5	< 2	0.65	4.0	< 1	24	49	0.45	< 10	120	0.04	< 10	0.07	55
22000E 16050N	201 202	< 5	1.6	0.67	32	2780	0.5	< 2	2.37	11.0	5	34	54	0.85	< 10	130	0.06	< 10	0.36	220
22000E 16075N	201 202	< 5	1.2	0.55	14	1090	< 0.5	< 2	2.98	10.5	3	38	40	0.66	< 10	170	0.04	< 10	0.16	245
22000E 16100N	201 202	< 5	1.6	1.07	40	2180	1.5	< 2	2.83	32.5	6	74	135	1.27	< 10	210	0.06	20	0.40	505
22000E 16125N	201 202	< 5	1.6	0.98	10	1760	< 0.5	< 2	0.50	7.5	2	78	61	1.08	< 10	240	0.06	10	0.44	65
22000E 16150N	201 202	not/ss	2.4	1.49	54	2700	0.5	< 2	2.02	18.5	5	108	164	1.75	< 10	280	0.07	10	0.54	170

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page: 3-B
 Total Pgs: 5
 Certificate No.: 29-SEP-97
 Invoice No.: 19742958
 P.O. Number:
 Account: LDS

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS

A9742958

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21800E 17175W	201 202	< 1	< 0.01	19	1570	28	< 2	4	44	0.10	< 10	< 10	70	< 10	202
21800E 17200W	201 202	1	< 0.01	18	770	18	< 2	6	27	0.15	< 10	< 10	87	< 10	102
21800E 17225W	201 202	< 1	< 0.01	14	980	18	2	5	27	0.13	< 10	< 10	84	< 10	104
21800E 17250W	201 202	< 1	< 0.01	17	590	16	4	3	18	0.09	< 10	< 10	69	< 10	60
21800E 17275W	201 202	< 1	< 0.01	16	490	14	< 2	3	12	0.07	< 10	< 10	65	< 10	58
21800E 17300W	201 202	< 1	< 0.01	16	520	14	2	3	13	0.10	< 10	< 10	77	< 10	60
21800E 17325W	201 202	< 1	< 0.01	16	560	18	4	3	16	0.09	< 10	< 10	73	< 10	58
21800E 17350W	201 202	< 1	< 0.01	16	870	36	2	3	23	0.11	< 10	< 10	84	< 10	64
21800E 17375W	201 202	< 1	< 0.01	17	390	16	< 2	4	15	0.10	< 10	< 10	73	< 10	56
21800E 17400W	201 202	< 1	< 0.01	21	670	16	2	4	23	0.15	< 10	< 10	85	< 10	64
21800E 17425W	201 202	< 1	< 0.01	11	460	14	< 2	3	16	0.09	< 10	< 10	67	< 10	36
21800E 17450W	201 202	< 1	< 0.01	15	650	10	< 2	3	16	0.08	< 10	< 10	61	< 10	50
21800E 17475W	201 202	< 1	< 0.01	22	660	12	2	4	18	0.07	< 10	< 10	88	< 10	78
21800E 17500W	201 202	1	0.03	296	2150	12	4	3	83	0.07	< 10	< 10	670	< 10	2460
21800E 17525W	201 202	1	< 0.01	47	5080	20	8	< 1	72	< 0.01	< 10	< 10	406	< 10	492
21800E 17550W	201 202	< 1	< 0.01	101	1720	18	2	7	54	0.15	< 10	< 10	291	< 10	844
21800E 17575W	201 202	1	< 0.01	18	890	12	< 2	6	44	0.12	< 10	< 10	85	< 10	82
21800E 17600W	201 202	2	< 0.01	16	750	16	2	4	19	0.07	< 10	< 10	61	< 10	64
21800E 17625W	201 202	1	< 0.01	14	580	14	< 2	2	19	0.05	< 10	< 10	55	< 10	52
21800E 17650W	201 202	< 1	< 0.01	16	730	14	< 2	3	20	0.06	< 10	< 10	54	< 10	66
21800E 17675W	201 202	< 1	< 0.01	17	670	14	< 2	2	30	0.05	< 10	< 10	63	< 10	62
21800E 17700W	201 202	< 1	< 0.01	24	710	18	< 2	3	24	0.05	< 10	< 10	59	< 10	76
21800E 17725W	201 202	< 1	< 0.01	25	860	34	2	2	26	0.05	< 10	< 10	64	< 10	116
21800E 17750W	201 202	1	< 0.01	20	1240	16	4	2	33	0.04	< 10	< 10	69	< 10	98
21800E 17775W	201 202	< 1	< 0.01	35	1880	6	2	1	69	0.01	< 10	< 10	92	< 10	180
21800E 17800W	201 202	< 1	< 0.01	30	1000	18	< 2	3	32	0.04	< 10	< 10	94	< 10	156
21800E 17825W	201 202	< 1	< 0.01	25	440	16	< 2	3	31	0.09	< 10	< 10	70	< 10	108
21800E 17850W	201 202	2	< 0.01	21	460	10	4	3	23	0.08	< 10	< 10	104	< 10	128
21800E 17875W	201 202	< 1	< 0.01	50	1240	16	2	4	58	0.07	< 10	< 10	104	< 10	398
21800E 17900W	201 202	< 1	< 0.01	60	1240	14	< 2	5	57	0.09	< 10	< 10	127	< 10	262
21800E 17925W	201 202	< 1	< 0.01	38	1190	12	< 2	3	33	0.05	< 10	< 10	71	< 10	180
21800E 17950W	201 202	1	< 0.01	35	770	28	2	3	22	0.06	< 10	< 10	77	< 10	238
21800E 17975W	201 202	< 1	< 0.01	69	1460	60	2	4	37	0.06	< 10	< 10	118	< 10	542
21800E 18000W	201 202	< 1	< 0.01	97	2900	158	< 2	3	42	0.04	< 10	< 10	101	< 10	920
22000E 16025W	201 202	4	0.01	32	1110	8	4	1	74	0.02	< 10	< 10	140	< 10	212
22000E 16050W	201 202	7	0.02	90	4010	28	4	1	164	0.03	< 10	< 10	371	< 10	924
22000E 16075W	201 202	1	0.01	43	2310	6	6	1	158	0.03	< 10	< 10	138	< 10	426
22000E 16100W	201 202	< 1	< 0.01	144	3720	8	6	4	263	0.04	< 10	< 10	382	< 10	1740
22000E 16125W	201 202	< 1	< 0.01	56	1340	14	4	4	80	0.04	< 10	< 10	213	< 10	686
22000E 16150W	201 202	2	0.01	197	3520	104	24	3	111	0.03	< 10	< 10	532	< 10	1870

CERTIFICATION: *Hart Bichler*



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page: 4-A
 Total Pages: 5
 Certificate: 29-SEP-97
 Invoice No.: 19742958
 P.O. Number:
 Account: LDS

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9742958

SAMPLE	PREP CODE		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	FA+AA	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm
22000E 16175W	201	202	< 5	2.4	1.95	98	3420	1.5	< 2	0.63	13.5	10	115	152	2.93	< 10	100	0.08	20	0.37	420
22000E 16200W	201	202	< 5	1.0	2.34	86	1750	0.5	< 2	0.47	4.5	7	104	83	3.64	< 10	70	0.07	10	0.50	270
22000E 16225W	201	202	< 5	1.4	0.47	< 2	830	0.5	< 2	1.08	6.5	1	21	142	0.73	< 10	240	0.01	10	0.06	20
22000E 16250W	201	202	not/ss	0.6	0.41	6	760	< 0.5	< 2	0.34	2.5	< 1	32	56	0.45	< 10	90	0.03	10	0.06	25
22000E 16275W	201	202	< 5	1.2	1.16	44	2200	0.5	< 2	1.00	3.5	6	58	35	1.98	< 10	100	0.06	20	0.57	195
22000E 16300W	201	202	40	0.2	0.91	36	1210	< 0.5	< 2	2.01	2.0	4	17	24	1.37	< 10	130	0.04	< 10	0.33	185
22000E 16325W	201	202	65	0.8	0.58	18	810	< 0.5	< 2	3.38	10.0	4	10	96	0.69	< 10	300	0.02	< 10	0.24	340
22000E 16350W	201	202	120	1.6	1.22	122	1340	0.5	< 2	3.67	43.0	7	19	162	1.43	< 10	530	0.05	< 10	0.30	465
22000E 16375W	201	202	< 5	0.2	1.52	20	1170	< 0.5	< 2	0.25	1.5	10	22	17	2.43	< 10	30	0.07	10	0.32	235
22000E 16400W	201	202	< 5	< 0.2	2.02	28	740	< 0.5	< 2	0.22	0.5	12	29	13	2.62	< 10	10	0.09	10	0.44	275
22000E 16425W	201	202	< 5	< 0.2	1.88	18	850	< 0.5	< 2	0.27	0.5	17	32	14	2.72	< 10	30	0.09	10	0.49	900
22000E 16450W	201	202	< 5	0.8	1.74	12	1410	< 0.5	< 2	0.43	1.0	16	30	15	2.65	< 10	30	0.09	10	0.49	885
22000E 16475W	201	202	< 5	< 0.2	1.67	20	860	< 0.5	< 2	0.23	0.5	7	27	23	2.64	< 10	20	0.09	10	0.43	285
22000E 16500W	201	202	< 5	< 0.2	2.42	24	580	0.5	< 2	0.17	0.5	19	32	15	2.83	< 10	10	0.07	10	0.39	930
22000E 16525W	201	202	< 5	< 0.2	2.52	40	1160	0.5	< 2	0.21	0.5	15	41	18	3.75	< 10	10	0.05	10	0.61	350
22000E 16550W	201	202	< 5	0.2	1.99	18	740	< 0.5	2	0.21	0.5	14	30	17	3.55	< 10	40	0.07	10	0.41	440
22000E 16575W	201	202	< 5	0.2	2.70	32	1960	0.5	< 2	0.51	0.5	20	68	26	4.13	10	30	0.07	< 10	1.16	695
22000E 16600W	201	202	< 5	< 0.2	2.55	50	370	0.5	< 2	0.16	0.5	14	38	34	3.59	< 10	30	0.09	10	0.58	205
22000E 16625W	201	202	< 5	1.0	2.43	56	3190	0.5	< 2	2.00	16.5	23	57	61	3.47	< 10	40	0.10	10	0.71	1160
22000E 16650W	201	202	< 5	2.8	1.58	46	590	0.5	< 2	1.82	9.0	9	104	57	2.28	< 10	30	0.06	10	0.37	320
22000E 16675W	201	202	< 5	0.2	3.23	16	1560	1.0	< 2	1.05	0.5	26	121	50	4.56	10	30	0.17	20	1.69	515
22000E 16700W	201	202	< 5	0.2	3.03	12	1890	1.5	< 2	1.22	3.5	38	79	41	4.82	10	50	0.23	10	1.09	2080
22000E 16725W	201	202	< 5	< 0.2	5.06	72	6440	0.5	< 2	1.26	1.5	32	162	50	7.31	10	20	0.81	10	2.63	620
22000E 16750W	201	202	< 5	0.2	3.31	14	1650	1.0	< 2	1.66	2.0	27	96	47	4.74	10	40	0.24	30	1.48	780
22000E 16775W	201	202	< 5	< 0.2	1.94	4	800	1.5	< 2	1.48	2.5	34	53	47	4.47	< 10	70	0.21	30	0.69	955
22000E 16800W	201	202	< 5	0.2	2.86	6	580	0.5	< 2	0.49	0.5	14	82	29	4.59	10	10	0.12	10	1.03	230
22000E 16825W	201	202	< 5	0.8	2.95	18	770	1.5	< 2	0.46	2.5	43	121	144	5.12	10	40	0.06	30	1.26	565
22000E 16850W	201	202	< 5	< 0.2	2.67	14	870	< 0.5	< 2	0.41	1.5	13	108	47	6.45	10	40	0.11	10	1.03	190
22000E 16875W	201	202	< 5	0.2	3.92	28	1460	0.5	< 2	0.48	0.5	25	171	43	6.47	10	10	0.17	10	1.66	225
22000E 16900W	201	202	< 5	< 0.2	3.32	16	1290	< 0.5	< 2	0.57	1.5	24	110	37	5.50	10	20	0.16	10	1.37	265
22000E 16925W	201	202	< 5	< 0.2	2.44	10	870	< 0.5	< 2	0.31	0.5	15	65	20	4.09	10	10	0.13	10	0.66	280
22000E 16950W	201	202	< 5	< 0.2	2.72	18	1060	< 0.5	< 2	0.33	1.0	20	89	30	5.33	10	30	0.15	10	0.88	515
22000E 16975W	201	202	< 5	< 0.2	2.89	12	560	0.5	< 2	0.23	0.5	19	86	24	4.52	10	10	0.12	10	1.06	250
22000E 17000W	201	202	< 5	< 0.2	2.11	12	390	< 0.5	< 2	0.39	< 0.5	12	66	23	3.11	< 10	10	0.08	10	0.70	155
22000E 17125W	201	202	25	< 0.2	2.73	50	920	1.5	< 2	0.74	1.0	19	73	38	4.32	10	30	0.24	40	1.35	675
22000E 17150W	201	202	10	< 0.2	3.49	24	1750	1.5	< 2	0.52	1.5	17	116	47	5.56	10	< 10	0.51	30	2.08	320
22000E 17175W	201	202	< 5	< 0.2	2.21	12	400	1.5	< 2	0.37	< 0.5	8	41	23	3.52	< 10	20	0.19	40	0.70	250
22000E 17200W	201	202	< 5	< 0.2	2.65	20	830	2.5	< 2	0.67	0.5	12	52	34	4.79	10	20	0.39	60	0.95	615
22000E 17225W	201	202	< 5	< 0.2	2.33	20	300	1.5	< 2	0.36	0.5	11	38	18	3.66	< 10	60	0.14	30	0.66	370
22000E 17250W	201	202	< 5	< 0.2	1.70	6	220	0.5	< 2	0.19	0.5	9	28	15	2.76	< 10	30	0.09	30	0.38	435

CERTIFICATION: Hart Buchler



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
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Pa : 4-B
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Project : BREWERY CREEK
 Comments : ATTN:RICK DIMENT

CERTIFICATE OF ANALYSIS

A9742958

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
22000E 16175N	201 202	11	0.01	158	3980	36	12	3	78	0.02	< 10	< 10	767	< 10	4720
22000E 16200N	201 202	1	0.01	127	4210	20	10	1	55	0.03	< 10	< 10	699	< 10	1640
22000E 16225N	201 202	1	0.01	71	1320	8	12	1	43	0.01	< 10	< 10	40	< 10	160
22000E 16250N	201 202	1	0.01	38	1480	8	< 2	< 1	46	< 0.01	< 10	< 10	67	< 10	218
22000E 16275N	201 202	1	0.01	73	2610	6	4	3	97	0.04	< 10	< 10	254	< 10	666
22000E 16300N	201 202	1	0.01	23	650	12	20	3	167	0.03	< 10	< 10	53	< 10	100
22000E 16325N	201 202	7	0.01	90	820	2	42	1	305	0.01	< 10	< 10	52	< 10	152
22000E 16350N	201 202	5	0.01	173	970	12	52	3	302	0.01	< 10	30	203	< 10	558
22000E 16375N	201 202	1	< 0.01	21	320	18	2	3	27	0.05	< 10	< 10	51	< 10	92
22000E 16400N	201 202	1	< 0.01	22	280	20	2	3	22	0.07	< 10	< 10	58	< 10	82
22000E 16425N	201 202	< 1	< 0.01	23	440	12	< 2	3	30	0.08	< 10	< 10	58	< 10	84
22000E 16450N	201 202	< 1	< 0.01	23	600	14	< 2	3	50	0.09	< 10	< 10	60	< 10	66
22000E 16475N	201 202	1	< 0.01	22	310	14	2	3	36	0.07	< 10	< 10	57	< 10	56
22000E 16500N	201 202	< 1	< 0.01	27	240	14	6	3	18	0.09	< 10	< 10	60	< 10	68
22000E 16525N	201 202	1	< 0.01	31	280	22	6	3	29	0.09	< 10	< 10	76	< 10	86
22000E 16550N	201 202	< 1	< 0.01	20	480	18	< 2	3	23	0.08	< 10	< 10	72	< 10	84
22000E 16575N	201 202	< 1	< 0.01	49	480	24	< 2	5	65	0.18	< 10	< 10	119	< 10	102
22000E 16600N	201 202	< 1	< 0.01	38	280	16	6	3	21	0.08	< 10	< 10	98	< 10	86
22000E 16625N	201 202	1	0.01	86	3200	26	2	4	134	0.06	< 10	< 10	337	< 10	1030
22000E 16650N	201 202	3	< 0.01	121	5260	44	2	3	158	0.04	< 10	< 10	304	< 10	1560
22000E 16675N	201 202	< 1	< 0.01	66	980	22	< 2	7	98	0.23	< 10	< 10	117	< 10	152
22000E 16700N	201 202	< 1	< 0.01	80	1260	12	< 2	4	94	0.24	< 10	< 10	84	< 10	214
22000E 16725N	201 202	< 1	< 0.01	87	1320	12	< 2	9	250	0.43	< 10	< 10	173	< 10	102
22000E 16750N	201 202	< 1	< 0.01	73	1330	6	< 2	8	131	0.28	< 10	< 10	121	< 10	146
22000E 16775N	201 202	1	< 0.01	52	1720	12	< 2	4	103	0.14	< 10	< 10	73	< 10	172
22000E 16800N	201 202	< 1	< 0.01	36	560	30	< 2	6	47	0.29	< 10	< 10	118	< 10	94
22000E 16825N	201 202	2	< 0.01	105	850	32	< 2	8	43	0.33	< 10	< 10	142	< 10	104
22000E 16850N	201 202	< 1	0.01	54	1160	14	< 2	4	74	0.29	< 10	< 10	99	< 10	72
22000E 16875N	201 202	< 1	< 0.01	81	950	18	< 2	8	95	0.36	< 10	< 10	173	< 10	72
22000E 16900N	201 202	< 1	< 0.01	83	630	12	< 2	6	82	0.32	< 10	< 10	139	< 10	84
22000E 16925N	201 202	< 1	< 0.01	43	460	14	2	4	47	0.19	< 10	< 10	98	< 10	64
22000E 16950N	201 202	< 1	< 0.01	60	720	16	< 2	5	52	0.25	< 10	< 10	120	< 10	92
22000E 16975N	201 202	< 1	< 0.01	51	510	14	< 2	5	30	0.23	< 10	< 10	116	< 10	86
22000E 17000N	201 202	< 1	< 0.01	42	500	8	2	4	27	0.11	< 10	< 10	72	< 10	70
22000E 17125N	201 202	< 1	< 0.01	39	1270	12	2	8	71	0.22	< 10	< 10	120	< 10	98
22000E 17150N	201 202	< 1	< 0.01	53	1220	14	< 2	10	76	0.41	< 10	< 10	172	< 10	116
22000E 17175N	201 202	< 1	< 0.01	17	790	14	< 2	7	38	0.14	< 10	< 10	85	< 10	74
22000E 17200N	201 202	< 1	< 0.01	18	1690	18	< 2	10	113	0.20	< 10	< 10	115	< 10	104
22000E 17225N	201 202	< 1	< 0.01	17	820	14	< 2	5	34	0.12	< 10	< 10	80	< 10	70
22000E 17250N	201 202	< 1	< 0.01	12	660	18	< 2	3	20	0.09	< 10	< 10	68	< 10	50

CERTIFICATION:

Hart Buchler



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Pa. Am. :5-A
 Total Pa. :5
 Certificate :29-SEP-97
 Invoice No. :19742958
 P.O. Number :
 Account :LDS

Project : BREWERY CREEK
 Comments : ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9742958

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
22000E 17275N	201 202	< 5	< 0.2	1.69	10	220	0.5	< 2	0.24	0.5	10	28	18	2.97	< 10	20	0.09	30	0.47	415
22000E 17300N	201 202	< 5	< 0.2	1.74	16	160	0.5	< 2	0.16	0.5	8	29	14	3.29	< 10	30	0.09	20	0.45	475
22000E 17325N	201 202	not/ss	1.2	0.81	2	390	1.5	< 2	0.23	3.0	11	14	28	1.62	< 10	100	0.08	80	0.15	530
22000E 17350N	201 202	< 5	< 0.2	0.61	2	110	< 0.5	< 2	0.10	< 0.5	1	12	11	0.73	< 10	20	0.06	10	0.07	40
22000E 17375N	201 202	< 5	< 0.2	1.01	4	200	1.5	< 2	0.16	0.5	2	16	19	1.41	< 10	30	0.06	30	0.16	90
22000E 17400N	201 202	< 5	< 0.2	1.67	18	170	1.0	< 2	0.28	< 0.5	9	27	18	3.04	< 10	10	0.10	30	0.52	240
22000E 17425N	201 202	< 5	< 0.2	1.67	32	260	1.0	< 2	0.40	0.5	11	28	23	3.66	< 10	< 10	0.15	40	0.57	435
22000E 17450N	201 202	< 5	< 0.2	1.40	24	320	0.5	< 2	0.37	0.5	6	24	23	2.89	< 10	20	0.14	40	0.52	200
22000E 17475N	201 202	< 5	< 0.2	2.18	20	500	2.0	< 2	0.83	0.5	8	31	35	3.71	< 10	30	0.13	70	1.00	260
22000E 17500N	201 202	< 5	< 0.2	1.58	30	230	0.5	< 2	0.97	6.5	7	56	59	2.90	< 10	70	0.12	30	0.59	260
22000E 17525N	201 202	< 5	0.6	1.09	16	200	1.0	< 2	0.20	10.0	3	39	74	2.35	< 10	60	0.09	30	0.24	110
22000E 17550N	201 202	< 5	1.2	0.99	12	180	0.5	< 2	0.16	3.0	3	29	48	2.39	< 10	50	0.08	20	0.20	95
22000E 17575N	201 202	not/ss	1.4	0.44	8	320	< 0.5	< 2	0.27	10.0	1	18	50	0.88	< 10	100	0.06	10	0.09	85
22000E 17600N	201 202	< 5	1.8	2.12	20	470	2.5	< 2	1.64	19.5	10	64	116	2.58	< 10	60	0.06	80	1.28	415
22000E 17625N	201 202	< 5	1.4	1.03	20	150	0.5	< 2	3.27	14.0	6	53	64	1.31	< 10	60	0.04	20	0.37	325
22000E 17650N	201 202	not/ss	0.8	0.62	16	130	< 0.5	< 2	4.45	15.5	5	54	41	0.81	< 10	60	0.03	10	0.17	340
22000E 17675N	201 202	< 5	1.0	1.15	20	620	0.5	2	2.77	27.0	13	61	65	1.24	< 10	100	0.05	50	0.25	395
22000E 17700N	201 202	< 5	0.2	1.67	14	300	0.5	< 2	0.53	4.0	7	50	30	2.51	< 10	40	0.13	30	0.80	230
22000E 17725N	201 202	not/ss	0.6	1.18	20	390	1.5	< 2	2.90	15.0	5	44	64	1.48	< 10	120	0.06	40	0.79	320
22000E 17750N	201 202	< 5	0.8	1.49	10	220	0.5	< 2	0.36	6.5	6	42	35	2.54	< 10	50	0.05	30	0.55	160
22000E 17775N	201 202	< 5	0.2	1.91	16	300	1.5	< 2	0.65	3.0	9	47	33	3.48	< 10	90	0.07	40	0.92	370
22000E 17800N	201 202	< 5	< 0.2	1.76	20	270	1.0	< 2	0.51	4.0	11	46	29	3.07	< 10	40	0.08	30	0.80	495
22000E 17825N	201 202	< 5	0.6	1.98	14	270	0.5	< 2	0.55	3.5	7	41	28	3.49	< 10	50	0.12	30	0.79	270
22000E 17850N	201 202	< 5	0.4	2.37	22	320	1.0	< 2	1.01	4.5	15	53	46	3.40	< 10	40	0.11	30	0.83	465
22000E 17875N	201 202	< 5	0.2	2.15	14	310	0.5	< 2	0.70	2.0	8	48	38	2.81	< 10	40	0.08	30	0.71	295
22000E 17900N	201 202	< 5	2.6	2.53	18	300	1.0	< 2	1.19	5.5	13	58	35	3.40	< 10	70	0.11	30	1.12	595
22000E 17925N	201 202	< 5	1.6	2.07	14	320	0.5	< 2	0.65	8.5	11	42	35	3.02	< 10	30	0.07	30	0.54	615
22000E 17950N	201 202	< 5	1.6	1.93	6	220	0.5	< 2	1.28	3.5	10	42	19	3.10	< 10	20	0.09	30	0.64	530
22000E 17975N	201 202	< 5	< 0.2	1.50	14	170	< 0.5	< 2	0.21	2.5	3	28	29	1.98	< 10	40	0.06	10	0.28	100
22000E 18000N	201 202	< 5	0.4	1.20	10	100	< 0.5	< 2	0.13	1.5	4	30	21	2.47	< 10	30	0.06	10	0.30	145

CERTIFICATION:

Hart Bichler



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Pa. : 5-B
 Total Pa. : 5
 Certificate : 29-SEP-97
 Invoice No. : 19742958
 P.O. Number :
 Account : LDS

Project : BREWERY CREEK
 Comments : ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9742958

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
22000E 17275N	201 202	< 1	< 0.01	15	620	16	< 2	4	41	0.11	< 10	< 10	73	< 10	64
22000E 17300N	201 202	< 1	< 0.01	14	620	20	< 2	3	20	0.10	< 10	< 10	81	< 10	60
22000E 17325N	201 202	< 1	< 0.01	13	1190	24	< 2	1	42	0.02	< 10	< 10	32	< 10	56
22000E 17350N	201 202	< 1	0.03	4	520	14	< 2	< 1	18	< 0.01	< 10	< 10	20	< 10	14
22000E 17375N	201 202	< 1	0.01	6	820	20	< 2	< 1	31	0.01	< 10	< 10	32	< 10	24
22000E 17400N	201 202	< 1	< 0.01	17	770	16	< 2	3	37	0.08	< 10	< 10	62	< 10	58
22000E 17425N	201 202	< 1	< 0.01	15	1150	26	< 2	4	87	0.11	< 10	< 10	85	< 10	78
22000E 17450N	201 202	< 1	< 0.01	13	950	24	< 2	4	140	0.08	< 10	< 10	76	< 10	70
22000E 17475N	201 202	< 1	< 0.01	14	1690	92	< 2	10	219	0.09	< 10	< 10	92	< 10	202
22000E 17500N	201 202	< 1	< 0.01	59	3070	28	< 2	3	97	0.05	< 10	< 10	412	< 10	634
22000E 17525N	201 202	< 1	< 0.01	45	930	20	2	2	56	0.05	< 10	< 10	171	< 10	256
22000E 17550N	201 202	< 1	< 0.01	22	760	26	2	1	56	0.05	< 10	< 10	165	< 10	164
22000E 17575N	201 202	5	< 0.01	23	940	6	< 2	< 1	36	0.03	< 10	< 10	73	< 10	244
22000E 17600N	201 202	< 1	< 0.01	140	2120	32	< 2	6	113	0.07	< 10	< 10	303	< 10	1190
22000E 17625N	201 202	< 1	< 0.01	65	1520	20	< 2	3	93	0.06	< 10	< 10	227	< 10	634
22000E 17650N	201 202	< 1	0.01	40	1170	14	< 2	2	132	0.04	< 10	< 10	275	< 10	314
22000E 17675N	201 202	< 1	0.01	60	2880	28	< 2	3	137	0.04	< 10	< 10	313	< 10	760
22000E 17700N	201 202	< 1	< 0.01	45	1240	34	< 2	4	84	0.08	< 10	< 10	104	< 10	420
22000E 17725N	201 202	< 1	< 0.01	71	1250	28	< 2	3	143	0.04	< 10	< 10	128	< 10	812
22000E 17750N	201 202	< 1	< 0.01	43	970	18	< 2	4	36	0.06	< 10	< 10	148	< 10	360
22000E 17775N	201 202	< 1	< 0.01	30	1370	18	< 2	6	50	0.11	< 10	< 10	160	< 10	190
22000E 17800N	201 202	< 1	< 0.01	36	1240	38	2	5	46	0.09	< 10	< 10	214	< 10	250
22000E 17825N	201 202	< 1	< 0.01	31	900	28	< 2	5	73	0.12	< 10	< 10	175	< 10	232
22000E 17850N	201 202	< 1	< 0.01	63	3400	20	< 2	5	89	0.09	< 10	< 10	173	< 10	384
22000E 17875N	201 202	< 1	< 0.01	42	1530	20	< 2	5	54	0.09	< 10	< 10	153	< 10	252
22000E 17900N	201 202	< 1	< 0.01	53	3000	52	< 2	4	68	0.10	< 10	< 10	241	< 10	582
22000E 17925N	201 202	< 1	< 0.01	38	2150	24	< 2	4	44	0.08	< 10	< 10	238	< 10	474
22000E 17950N	201 202	< 1	< 0.01	24	4050	22	< 2	3	76	0.06	< 10	< 10	114	< 10	364
22000E 17975N	201 202	1	0.01	21	590	14	< 2	< 1	25	0.03	< 10	< 10	240	< 10	160
22000E 18000N	201 202	1	< 0.01	27	550	12	< 2	2	19	0.07	< 10	< 10	253	< 10	240

CERTIFICATION: Hart Buchler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

:1-A
 :7
 Total Pp :
 Certificate No.: 12-AUG-97
 Invoice No.: 19735800
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9735800

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
20900E 18250M	201	202	< 5	1.0	2.51	8	260	0.5	< 2	0.16	2.0	8	44	17	3.28	10	50	0.05	10	0.44	345
20900E 18275M	201	202	< 5	1.0	1.59	6	240	0.5	< 2	0.44	2.0	5	55	18	2.67	< 10	40	0.05	10	0.33	220
20900E 18300M	201	202	< 5	1.0	1.47	10	390	0.5	< 2	0.83	3.0	9	51	27	2.58	< 10	40	0.05	10	0.35	400
20900E 18325M	201	202	< 5	3.4	2.47	10	350	0.5	< 2	0.42	2.5	8	47	17	2.96	10	90	0.07	10	0.40	350
20900E 18350M	201	202	< 5	2.2	2.45	6	340	0.5	< 2	0.24	5.5	11	40	18	3.13	< 10	70	0.06	10	0.39	910
20900E 18375M	201	202	< 5	< 0.2	1.97	16	220	1.0	< 2	0.76	4.0	12	96	63	3.15	< 10	120	0.08	30	0.39	265
20900E 18400M	201	202	< 5	< 0.2	1.08	6	330	0.5	2	0.79	2.5	6	93	34	2.33	< 10	50	0.07	30	0.16	140
20900E 18425M	201	202	< 5	< 0.2	1.19	4	670	0.5	< 2	0.23	7.5	2	81	57	1.49	< 10	110	0.04	30	0.05	65
20900E 18450M	201	202	< 5	0.6	1.15	8	800	1.5	< 2	1.54	8.0	4	95	83	2.20	< 10	200	0.08	50	0.13	105
20900E 18475M	201	202	< 5	1.8	1.04	2	1210	1.5	2	0.49	5.5	1	73	126	1.32	< 10	550	0.04	40	0.05	30
20900E 18500M	201	202	< 5	1.6	1.02	16	640	1.5	2	1.75	6.5	6	94	119	2.12	< 10	350	0.09	50	0.06	75
20900E 18525M	201	202	< 5	4.0	0.97	14	440	1.5	< 2	1.20	9.5	6	97	161	2.27	< 10	570	0.09	40	0.07	65
20900E 18550M	201	202	< 5	10.8	1.22	18	360	1.5	< 2	2.33	8.5	7	121	117	2.04	< 10	1900	0.13	30	0.20	345
20900E 18575M	201	202	< 5	8.4	0.99	24	260	1.0	< 2	1.84	7.0	6	100	116	1.95	< 10	2810	0.14	30	0.20	255
20900E 18600M	201	202	< 5	0.8	0.43	< 2	220	< 0.5	< 2	4.46	< 0.5	1	9	34	0.40	< 10	400	< 0.01	< 10	0.34	245
20900E 18625M	201	202	< 5	< 0.2	1.27	34	190	0.5	< 2	1.11	15.0	6	25	46	1.71	< 10	950	0.09	30	0.22	200
20900E 18650M	201	202	< 5	< 0.2	1.01	8	150	< 0.5	< 2	0.20	< 0.5	6	15	20	2.43	< 10	60	0.09	20	0.19	100
20900E 18675M	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20900E 18700M	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20900E 18725M	201	202	< 5	< 0.2	0.85	< 2	320	0.5	< 2	2.81	< 0.5	8	12	31	1.82	< 10	180	0.08	10	0.50	180
20900E 18750M	201	202	< 5	< 0.2	0.84	6	320	< 0.5	< 2	1.62	0.5	5	13	19	1.48	< 10	60	0.04	10	0.31	175
20900E 18775M	201	202	< 5	0.2	0.93	10	310	0.5	< 2	1.07	0.5	7	16	25	2.08	< 10	110	0.08	10	0.29	330
20900E 18800M	201	202	< 5	< 0.2	1.75	6	260	0.5	< 2	0.43	< 0.5	9	23	13	2.89	< 10	50	0.07	10	0.42	255
20900E 18825M	201	202	< 5	< 0.2	1.16	12	200	< 0.5	< 2	0.14	< 0.5	7	17	18	2.84	< 10	40	0.10	10	0.24	155
20900E 18850M	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20900E 18875M	201	202	20	0.6	1.34	26	250	0.5	< 2	0.43	< 0.5	7	16	19	2.73	< 10	120	0.06	10	0.19	275
20900E 18900M	201	202	75	1.2	0.40	34	210	1.0	< 2	3.22	< 0.5	8	6	29	2.18	< 10	580	0.08	10	0.59	785
20900E 18925M	201	202	185	2.6	0.31	52	160	1.5	< 2	4.45	< 0.5	10	8	47	2.83	10	960	0.11	20	2.02	440
20900E 18950M	201	202	35	0.8	0.29	20	130	0.5	< 2	4.45	< 0.5	4	5	19	1.16	< 10	500	0.05	< 10	0.57	660
20900E 18975M	201	202	10	0.2	1.44	14	410	0.5	2	0.77	2.0	10	22	22	1.88	< 10	220	0.10	10	0.40	835
20900E 19000M	201	202	< 5	< 0.2	1.48	10	390	< 0.5	< 2	0.29	< 0.5	6	21	13	1.69	< 10	100	0.08	10	0.38	155
20900E 19025M	201	202	40	0.8	1.40	112	550	< 0.5	< 2	0.15	0.5	5	25	24	2.96	< 10	540	0.15	30	0.27	170
20900E 19050M	201	202	< 5	0.6	1.33	22	670	< 0.5	< 2	0.13	< 0.5	5	27	21	2.60	< 10	110	0.13	20	0.33	165
20900E 19075M	201	202	< 5	0.2	1.52	16	380	< 0.5	< 2	0.13	< 0.5	4	27	19	2.07	< 10	180	0.07	10	0.26	105
20900E 19100M	201	202	< 5	0.4	2.11	18	310	0.5	< 2	0.12	< 0.5	7	36	29	3.05	< 10	130	0.08	10	0.44	205
20900E 19125M	201	202	< 5	< 0.2	2.00	6	300	< 0.5	< 2	0.13	< 0.5	6	29	18	2.62	< 10	20	0.08	10	0.42	215
20900E 19150M	201	202	< 5	< 0.2	1.54	8	260	< 0.5	< 2	0.20	< 0.5	7	25	21	2.25	< 10	40	0.07	20	0.41	210
20900E 19175M	201	202	< 5	< 0.2	1.58	12	180	< 0.5	< 2	0.09	< 0.5	4	26	12	2.28	< 10	30	0.04	10	0.29	95
20900E 19200M	201	202	< 5	< 0.2	1.78	10	120	< 0.5	< 2	0.18	< 0.5	9	24	12	2.59	< 10	40	0.04	10	0.43	280
20900E 19225M	201	202	10	1.8	0.69	104	240	1.0	2	0.11	0.5	2	23	93	3.23	< 10	280	0.05	10	0.04	90

CERTIFICATION: Hart Buchler



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Form : 1-B
 Total Pgs : 7
 Certificate No: 12-AUG-97
 Invoice No: 19735800
 P.O. Number:
 Account : OQN

Project:
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS

A9735800

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
20900E 18250M	201 202	< 1	< 0.01	25	1930	12	< 2	3	16	0.05	< 10	< 10	121	< 10	408
20900E 18275M	201 202	< 1	< 0.01	38	4190	8	< 2	1	30	0.02	< 10	< 10	186	< 10	350
20900E 18300M	201 202	< 1	< 0.01	52	4030	10	< 2	1	45	0.01	< 10	< 10	162	< 10	340
20900E 18325M	201 202	< 1	< 0.01	28	4010	14	< 2	4	34	0.05	< 10	< 10	130	< 10	400
20900E 18350M	201 202	< 1	< 0.01	20	1940	12	< 2	3	21	0.05	< 10	< 10	101	< 10	270
20900E 18375M	201 202	< 1	< 0.01	70	4180	14	2	5	48	0.04	< 10	< 10	279	< 10	330
20900E 18400M	201 202	< 1	< 0.01	41	5390	14	< 2	< 1	74	< 0.01	< 10	< 10	268	< 10	194
20900E 18425M	201 202	< 1	< 0.01	21	2950	16	< 2	< 1	125	< 0.01	< 10	< 10	243	< 10	110
20900E 18450M	201 202	< 1	< 0.01	46	9890	14	< 2	< 1	303	< 0.01	< 10	10	397	< 10	198
20900E 18475M	201 202	< 1	< 0.01	22	5600	18	< 2	< 1	321	< 0.01	< 10	10	228	< 10	120
20900E 18500M	201 202	8	< 0.01	149	9700	18	4	< 1	179	< 0.01	< 10	< 10	386	< 10	578
20900E 18525M	201 202	14	< 0.01	208	6450	16	6	< 1	68	< 0.01	< 10	10	297	< 10	828
20900E 18550M	201 202	12	< 0.01	246	7520	10	6	3	87	< 0.01	< 10	< 10	284	< 10	1485
20900E 18575M	201 202	12	< 0.01	247	6220	8	10	5	72	< 0.01	< 10	< 10	290	< 10	1370
20900E 18600M	201 202	< 1	0.01	32	1160	< 2	2	< 1	97	0.01	< 10	< 10	39	< 10	18
20900E 18625M	201 202	40	< 0.01	92	520	14	16	4	25	< 0.01	< 10	10	485	< 10	1175
20900E 18650M	201 202	14	< 0.01	57	240	8	< 2	3	14	< 0.01	< 10	< 10	75	< 10	354
20900E 18675M	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20900E 18700M	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20900E 18725M	201 202	< 1	< 0.01	30	610	6	< 2	6	78	< 0.01	< 10	< 10	15	< 10	66
20900E 18750M	201 202	< 1	< 0.01	15	520	8	< 2	3	50	0.02	< 10	< 10	33	< 10	44
20900E 18775M	201 202	< 1	< 0.01	25	690	10	8	3	39	0.02	< 10	< 10	44	< 10	88
20900E 18800M	201 202	< 1	< 0.01	22	270	10	< 2	4	21	0.03	< 10	< 10	46	< 10	64
20900E 18825M	201 202	< 1	< 0.01	24	390	12	< 2	2	14	0.01	< 10	< 10	41	< 10	84
20900E 18850M	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20900E 18875M	201 202	4	< 0.01	37	360	16	720	3	25	0.01	< 10	< 10	46	< 10	118
20900E 18900M	201 202	5	< 0.01	36	820	8	500	3	71	< 0.01	< 10	< 10	10	< 10	68
20900E 18925M	201 202	7	< 0.01	50	1050	12	652	7	91	< 0.01	< 10	< 10	11	< 10	126
20900E 18950M	201 202	3	< 0.01	17	860	6	322	1	84	< 0.01	< 10	< 10	7	< 10	56
20900E 18975M	201 202	2	< 0.01	24	960	12	24	3	54	0.01	< 10	< 10	67	< 10	142
20900E 19000M	201 202	< 1	< 0.01	16	620	10	8	3	35	0.02	< 10	< 10	33	< 10	62
20900E 19025M	201 202	5	< 0.01	17	820	64	6	3	43	0.01	< 10	< 10	56	< 10	78
20900E 19050M	201 202	9	< 0.01	19	780	22	2	3	67	0.05	< 10	< 10	128	< 10	76
20900E 19075M	201 202	4	< 0.01	14	600	14	< 2	2	34	0.04	< 10	< 10	128	< 10	46
20900E 19100M	201 202	6	< 0.01	20	860	14	< 2	4	27	0.06	< 10	< 10	122	< 10	66
20900E 19125M	201 202	3	< 0.01	18	310	12	< 2	3	24	0.05	< 10	< 10	74	< 10	60
20900E 19150M	201 202	1	< 0.01	17	450	10	< 2	4	24	0.06	< 10	< 10	55	< 10	52
20900E 19175M	201 202	3	< 0.01	12	600	12	< 2	2	15	0.03	< 10	< 10	124	< 10	46
20900E 19200M	201 202	1	< 0.01	19	820	10	< 2	3	17	0.04	< 10	< 10	43	< 10	60
20900E 19225M	201 202	28	< 0.01	42	3230	36	6	< 1	51	< 0.01	< 10	10	119	< 10	136

CERTIFICATION: Hart Buehler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN:RICK DIMENT

Total Pb : 2-A
 Certificate : 7
 Invoice No. : 12-AUG-97
 P.O. Number : 19735800
 Account : OQN

CERTIFICATE OF ANALYSIS A9735800

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
20900E 19250W	201 202	10	1.0	0.90	74	350	0.5	2	0.21	0.5	4	30	39	3.40	< 10	100	0.08	10	0.13	230
20900E 19275W	201 202	15	1.2	1.20	72	1260	1.5	< 2	0.31	1.5	3	33	143	2.56	< 10	380	0.20	10	0.08	45
20900E 19300W	201 202	10	1.2	0.94	36	470	< 0.5	2	0.10	0.5	3	19	71	2.13	< 10	370	0.08	10	0.16	85
20900E 19325W	201 202	5	0.2	0.46	88	630	0.5	2	0.03	1.0	8	13	84	4.09	< 10	150	0.09	30	0.01	135
20900E 19350W	201 202	5	0.8	0.96	28	480	0.5	< 2	0.08	2.0	8	16	47	3.01	< 10	110	0.13	30	0.25	160
20900E 19375W	201 202	< 5	0.2	0.90	28	430	0.5	< 2	0.04	1.5	12	17	40	3.22	< 10	50	0.12	40	0.16	180
20900E 19400W	201 202	< 5	0.4	1.23	20	650	0.5	< 2	0.14	3.0	8	19	30	2.65	< 10	70	0.12	30	0.26	205
20900E 19425W	201 202	< 5	0.2	1.43	8	760	< 0.5	< 2	0.44	0.5	6	21	20	2.26	< 10	60	0.14	30	0.43	100
20900E 19450W	201 202	45	< 0.2	1.37	80	1080	< 0.5	< 2	0.99	0.5	7	23	17	2.35	< 10	380	0.09	10	0.42	360
21000E 18000W	201 202	< 5	< 0.2	2.27	10	340	0.5	< 2	0.11	< 0.5	8	36	20	3.02	10	10	0.06	10	0.50	295
21000E 18025W	201 202	< 5	< 0.2	2.01	8	270	< 0.5	< 2	0.11	< 0.5	7	31	11	2.84	10	20	0.05	10	0.44	330
21000E 18050W	201 202	< 5	< 0.2	2.01	8	230	< 0.5	< 2	0.12	< 0.5	8	33	19	2.81	< 10	10	0.05	10	0.53	295
21000E 18075W	201 202	< 5	< 0.2	2.27	8	250	< 0.5	< 2	0.13	< 0.5	8	36	13	3.22	10	20	0.08	10	0.51	355
21000E 18100W	201 202	< 5	< 0.2	2.33	4	320	< 0.5	< 2	0.14	< 0.5	8	31	10	3.15	10	20	0.06	10	0.39	380
21000E 18125W	201 202	< 5	0.2	2.05	6	370	< 0.5	2	0.15	1.5	10	28	13	2.95	< 10	30	0.06	10	0.37	840
21000E 18150W	201 202	< 5	< 0.2	1.88	10	180	< 0.5	< 2	0.10	< 0.5	8	28	15	2.79	< 10	50	0.05	10	0.45	275
21000E 18175W	201 202	< 5	< 0.2	1.59	2	240	< 0.5	< 2	0.16	< 0.5	8	21	6	2.97	< 10	20	0.04	10	0.24	380
21000E 18200W	201 202	< 5	< 0.2	1.80	6	280	< 0.5	< 2	0.11	0.5	8	24	8	2.90	< 10	10	0.04	10	0.37	325
21000E 18225W	201 202	< 5	< 0.2	1.99	6	290	< 0.5	2	0.10	2.5	11	26	9	3.06	< 10	20	0.04	< 10	0.34	860
21000E 18250W	201 202	< 5	< 0.2	2.07	12	120	< 0.5	< 2	0.08	< 0.5	7	54	17	4.26	10	10	0.08	10	0.69	255
21000E 18275W	201 202	< 5	< 0.2	2.05	8	140	< 0.5	< 2	0.12	< 0.5	6	34	10	3.67	10	40	0.06	10	0.44	170
21000E 18300W	201 202	< 5	< 0.2	3.00	8	320	0.5	2	0.14	0.5	13	38	15	3.82	10	20	0.06	10	0.45	425
21000E 18325W	201 202	< 5	< 0.2	1.89	10	110	< 0.5	2	0.13	< 0.5	7	33	13	3.37	10	30	0.05	10	0.48	270
21000E 18350W	201 202	< 5	< 0.2	1.51	8	120	< 0.5	< 2	0.18	< 0.5	6	23	21	2.40	< 10	20	0.04	10	0.41	155
21000E 18375W	201 202	< 5	< 0.2	1.79	8	180	< 0.5	2	0.21	< 0.5	5	36	18	2.54	< 10	70	0.04	10	0.32	160
21000E 18400W	201 202	< 5	1.4	2.64	8	290	0.5	2	0.36	3.0	11	49	15	3.49	10	70	0.05	10	0.38	515
21000E 18425W	201 202	< 5	1.4	1.78	14	360	0.5	< 2	2.11	9.0	11	105	45	2.84	< 10	200	0.13	30	0.24	330
21000E 18450W	201 202	< 5	0.8	1.28	6	240	0.5	< 2	0.64	3.5	3	53	28	1.88	< 10	60	0.06	20	0.08	85
21000E 18475W	201 202	< 5	0.8	1.02	8	210	0.5	< 2	0.52	3.0	5	53	35	2.02	< 10	160	0.05	20	0.17	130
21000E 18500W	201 202	5	0.4	0.98	8	320	0.5	2	0.48	9.0	4	47	43	1.73	< 10	260	0.04	20	0.08	195
21000E 18525W	201 202	< 5	1.0	1.19	10	330	0.5	< 2	0.84	7.0	4	46	31	1.74	< 10	140	0.05	10	0.20	125
21000E 18550W	201 202	< 5	0.6	1.19	12	200	< 0.5	< 2	0.40	2.5	5	44	23	2.21	< 10	150	0.05	10	0.28	135
21000E 18575W	201 202	< 5	1.4	0.99	20	260	0.5	< 2	1.36	2.5	7	80	60	2.15	< 10	390	0.07	30	0.10	145
21000E 18600W	201 202	< 5	1.8	1.90	16	310	0.5	< 2	0.42	1.0	10	52	30	2.91	< 10	200	0.06	10	0.36	275
21000E 18625W	201 202	< 5	1.4	1.04	20	220	0.5	< 2	0.49	1.0	14	29	40	2.47	< 10	150	0.06	30	0.17	1855
21000E 18650W	201 202	10	8.6	0.99	42	260	2.0	< 2	5.49	8.5	3	181	273	1.45	< 10	1460	0.25	30	0.18	175
21000E 18675W	201 202	< 5	2.6	1.50	8	410	0.5	< 2	1.11	3.5	5	42	37	1.70	< 10	510	0.06	10	0.38	260
21000E 18700W	201 202	< 5	< 0.2	1.01	26	190	0.5	< 2	1.70	7.0	7	24	45	1.77	< 10	470	0.08	30	0.31	315
21000E 18725W	201 202	< 5	< 0.2	1.04	8	220	0.5	< 2	0.38	1.5	11	17	25	2.57	< 10	130	0.09	30	0.21	305
21000E 18750W	201 202	60	< 0.2	1.65	10	350	0.5	< 2	0.69	0.5	9	28	24	2.29	< 10	120	0.06	20	0.38	230

CERTIFICATION: Hart Bunker



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
 212 Brooksbank Ave., North Vancouver
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

:2-B
 Total Pp :7
 Certificate No.: 12-AUG-97
 Invoice No.: 19735800
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9735800

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
20900E 19250W	201 202	16 < 0.01		40	2880	28	6	< 1	62	0.01	< 10	< 10	156	< 10	142
20900E 19275W	201 202	20 < 0.01		39	3670	48	10	1	147	< 0.01	< 10	10	169	< 10	142
20900E 19300W	201 202	9 < 0.01		17	1360	34	2	< 1	51	< 0.01	< 10	< 10	58	< 10	80
20900E 19325W	201 202	15 < 0.01		44	1210	94	12	2	125	< 0.01	< 10	< 10	61	< 10	444
20900E 19350W	201 202	6 < 0.01		37	860	42	2	3	71	< 0.01	< 10	< 10	47	< 10	222
20900E 19375W	201 202	4 < 0.01		51	540	28	2	3	63	< 0.01	< 10	< 10	51	< 10	312
20900E 19400W	201 202	3 < 0.01		33	680	30	< 2	3	70	< 0.01	< 10	< 10	51	< 10	174
20900E 19425W	201 202	1 < 0.01		29	560	20	< 2	3	85	< 0.01	< 10	< 10	52	< 10	122
20900E 19450W	201 202	1 < 0.01		21	760	12	14	4	212	0.01	< 10	< 10	52	< 10	108
21000E 18000W	201 202	< 1 < 0.01		24	380	12	< 2	4	29	0.06	< 10	< 10	116	< 10	80
21000E 18025W	201 202	1 < 0.01		14	340	10	< 2	3	15	0.07	< 10	< 10	68	< 10	58
21000E 18050W	201 202	< 1 < 0.01		23	270	10	< 2	3	14	0.06	< 10	< 10	55	< 10	70
21000E 18075W	201 202	< 1 < 0.01		19	370	10	< 2	4	18	0.08	< 10	< 10	77	< 10	86
21000E 18100W	201 202	< 1 < 0.01		15	330	12	< 2	4	17	0.08	< 10	< 10	77	< 10	88
21000E 18125W	201 202	< 1 < 0.01		17	850	10	< 2	1	18	0.04	< 10	< 10	65	< 10	128
21000E 18150W	201 202	1 < 0.01		20	300	10	< 2	3	12	0.05	< 10	< 10	53	< 10	64
21000E 18175W	201 202	< 1 < 0.01		10	410	12	< 2	1	18	0.05	< 10	< 10	64	< 10	74
21000E 18200W	201 202	< 1 < 0.01		13	410	10	< 2	2	14	0.04	< 10	< 10	57	< 10	94
21000E 18225W	201 202	< 1 < 0.01		14	950	12	< 2	1	11	0.03	< 10	< 10	61	< 10	180
21000E 18250W	201 202	< 1 < 0.01		21	400	12	< 2	4	10	0.07	< 10	< 10	76	< 10	78
21000E 18275W	201 202	< 1 < 0.01		14	240	10	< 2	4	14	0.08	< 10	< 10	76	< 10	52
21000E 18300W	201 202	< 1 < 0.01		18	450	16	< 2	4	17	0.10	< 10	< 10	91	< 10	210
21000E 18325W	201 202	< 1 < 0.01		18	340	10	< 2	3	14	0.07	< 10	< 10	66	< 10	72
21000E 18350W	201 202	< 1 < 0.01		17	610	8	< 2	2	16	0.04	< 10	< 10	43	< 10	50
21000E 18375W	201 202	1 < 0.01		16	1320	10	< 2	< 1	19	0.02	< 10	< 10	166	< 10	74
21000E 18400W	201 202	1 < 0.01		30	1520	14	< 2	3	25	0.05	< 10	< 10	179	< 10	630
21000E 18425W	201 202	6 < 0.01		202	>10000	14	2	1	92	0.02	< 10	10	542	< 10	1660
21000E 18450W	201 202	1 < 0.01		50	4040	12	< 2	< 1	37	< 0.01	< 10	< 10	218	< 10	296
21000E 18475W	201 202	3 < 0.01		89	3400	8	2	< 1	36	< 0.01	< 10	< 10	254	< 10	750
21000E 18500W	201 202	2 < 0.01		62	2870	10	< 2	< 1	40	< 0.01	< 10	< 10	185	< 10	492
21000E 18525W	201 202	3 < 0.01		52	2510	10	2	< 1	55	< 0.01	< 10	< 10	380	< 10	498
21000E 18550W	201 202	3 < 0.01		56	2810	8	< 2	1	29	0.02	< 10	< 10	240	< 10	426
21000E 18575W	201 202	10 < 0.01		156	6590	12	8	2	55	0.01	< 10	< 10	207	< 10	862
21000E 18600W	201 202	4 < 0.01		66	3190	12	< 2	1	27	0.02	< 10	< 10	165	< 10	298
21000E 18625W	201 202	1 0.01		57	1500	16	6	< 1	31	< 0.01	< 10	< 10	89	< 10	246
21000E 18650W	201 202	23 < 0.01		203	>10000	10	14	5	160	< 0.01	< 10	10	389	< 10	748
21000E 18675W	201 202	1 < 0.01		57	2210	8	< 2	< 1	51	0.01	< 10	< 10	169	< 10	578
21000E 18700W	201 202	30 < 0.01		82	1110	10	8	3	57	0.01	< 10	< 10	273	< 10	726
21000E 18725W	201 202	4 < 0.01		44	520	10	< 2	4	16	0.01	< 10	< 10	72	< 10	246
21000E 18750W	201 202	6 < 0.01		39	570	12	2	4	32	0.03	< 10	< 10	134	< 10	254

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists Geochemists Registered Assayers
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN:RICK DIMENT

Total Pa :3-A
 Certificat :7
 Invoice No. :12-AUG-97
 P.O. Number :19735800
 Account :OQN

CERTIFICATE OF ANALYSIS

A9735800

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
21000E 18775M	201 202	< 5	< 0.2	1.23	4	260	< 0.5	< 2	0.16	< 0.5	5	18	10	2.58	< 10	20	0.07	10	0.22	190
21000E 18800M	201 202	< 5	< 0.2	1.34	6	310	< 0.5	2	0.25	0.5	9	19	20	2.86	< 10	40	0.14	10	0.21	185
21000E 18825M	201 202	< 5	< 0.2	1.80	4	380	0.5	< 2	0.28	< 0.5	11	23	27	3.34	< 10	30	0.08	10	0.37	250
21000E 18850M	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21000E 18875M	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21000E 18900M	201 202	< 5	< 0.2	0.97	2	340	< 0.5	< 2	0.53	< 0.5	7	14	23	2.30	< 10	30	0.11	10	0.24	180
21000E 18925M	201 202	< 5	< 0.2	1.30	< 2	510	0.5	< 2	0.69	< 0.5	10	17	25	2.71	< 10	40	0.12	10	0.28	440
21000E 18950M	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21000E 18975M	201 202	10	0.2	1.70	6	440	< 0.5	< 2	0.25	0.5	5	25	15	1.82	< 10	110	0.12	20	0.37	135
21000E 19000M	201 202	20	0.2	1.70	46	770	0.5	< 2	0.23	0.5	10	23	27	2.87	< 10	190	0.17	40	0.23	535
21000E 19025M	201 202	< 5	0.2	1.69	34	230	< 0.5	2	0.07	< 0.5	4	22	9	2.39	< 10	60	0.06	10	0.25	205
21000E 19050M	201 202	10	< 0.2	1.54	38	200	< 0.5	< 2	0.07	< 0.5	7	26	20	2.84	< 10	140	0.06	10	0.36	220
21000E 19075M	201 202	< 5	0.2	1.26	4	200	< 0.5	< 2	0.06	< 0.5	3	16	8	1.95	< 10	10	0.03	10	0.17	115
21000E 19100M	201 202	5	< 0.2	2.45	10	210	< 0.5	< 2	0.09	< 0.5	8	30	9	2.89	< 10	60	0.04	10	0.42	230
21000E 19125M	201 202	< 5	< 0.2	1.46	10	180	< 0.5	< 2	0.14	< 0.5	5	21	10	2.08	< 10	80	0.05	10	0.31	120
21000E 19150M	201 202	< 5	0.2	1.18	10	200	< 0.5	< 2	0.12	< 0.5	4	21	10	2.08	< 10	40	0.07	10	0.29	140
21000E 19175M	201 202	< 5	0.2	1.07	10	350	< 0.5	2	0.10	< 0.5	4	20	19	2.24	< 10	40	0.08	20	0.24	125
21000E 19200M	201 202	< 5	0.2	1.34	16	550	< 0.5	< 2	0.13	< 0.5	5	20	23	2.22	< 10	140	0.08	20	0.29	160
21000E 19225M	201 202	5	< 0.2	1.01	10	450	< 0.5	< 2	0.10	< 0.5	3	17	20	1.50	< 10	90	0.07	20	0.21	90
21000E 19250M	201 202	< 5	< 0.2	1.39	18	430	< 0.5	< 2	0.13	< 0.5	4	21	14	2.06	< 10	60	0.10	20	0.29	130
21000E 19275M	201 202	< 5	< 0.2	0.78	10	480	< 0.5	< 2	0.04	0.5	1	15	13	1.16	< 10	40	0.06	20	0.04	45
21000E 19300M	201 202	5	< 0.2	1.39	62	580	1.5	2	0.02	1.5	21	11	34	5.22	< 10	550	0.09	60	0.08	900
21000E 19325M	201 202	< 5	< 0.2	0.90	22	450	< 0.5	< 2	0.04	1.5	10	15	25	3.53	< 10	10	0.10	30	0.11	170
21000E 19350M	201 202	< 5	0.2	0.86	16	1270	< 0.5	< 2	0.48	6.5	8	16	27	2.06	< 10	60	0.10	20	0.26	155
21000E 19375M	201 202	10	1.0	1.02	24	800	0.5	< 2	0.45	2.0	10	16	31	2.88	< 10	180	0.12	30	0.25	260
21000E 19400M	201 202	25	1.0	1.00	28	1170	0.5	< 2	0.38	4.5	6	14	33	2.44	< 10	240	0.12	30	0.20	150
21000E 19425M	201 202	10	1.0	1.19	10	1530	0.5	< 2	0.39	2.0	7	17	35	2.11	< 10	210	0.13	30	0.28	140
21100E 18000M	201 202	< 5	< 0.2	2.49	6	240	< 0.5	2	0.11	< 0.5	8	35	13	3.18	10	30	0.08	10	0.42	420
21100E 18025M	201 202	< 5	< 0.2	2.43	6	230	< 0.5	< 2	0.15	< 0.5	6	36	13	2.79	10	20	0.08	20	0.45	195
21100E 18050M	201 202	< 5	< 0.2	1.52	6	120	< 0.5	< 2	0.12	< 0.5	4	28	9	2.45	10	10	0.08	10	0.32	140
21100E 18075M	201 202	< 5	< 0.2	1.63	6	110	< 0.5	< 2	0.12	< 0.5	5	31	11	2.95	< 10	10	0.07	10	0.41	240
21100E 18100M	201 202	< 5	< 0.2	2.15	6	160	< 0.5	< 2	0.10	< 0.5	6	35	13	3.58	10	20	0.07	10	0.47	185
21100E 18125M	201 202	< 5	< 0.2	1.95	10	140	< 0.5	< 2	0.11	< 0.5	5	40	11	3.54	10	30	0.07	10	0.42	165
21100E 18150M	201 202	< 5	< 0.2	1.23	10	120	< 0.5	2	0.10	< 0.5	4	25	14	2.71	< 10	20	0.05	10	0.28	130
21100E 18175M	201 202	< 5	< 0.2	1.33	2	190	< 0.5	< 2	0.10	< 0.5	2	18	10	1.64	< 10	80	0.05	10	0.13	65
21100E 18200M	201 202	< 5	< 0.2	1.63	< 2	170	< 0.5	< 2	0.11	< 0.5	3	25	9	1.81	10	30	0.07	10	0.24	95
21100E 18225M	201 202	< 5	< 0.2	1.30	8	120	< 0.5	< 2	0.10	< 0.5	3	21	6	2.05	10	10	0.05	10	0.23	90
21100E 18250M	201 202	< 5	0.6	1.65	2	270	< 0.5	< 2	0.07	0.5	3	18	25	1.70	< 10	70	0.08	10	0.09	315
21100E 18275M	201 202	< 5	< 0.2	1.05	2	120	< 0.5	< 2	0.07	< 0.5	1	14	4	1.90	< 10	20	0.03	10	0.10	160
21100E 18300M	201 202	< 5	< 0.2	1.10	2	100	< 0.5	< 2	0.06	< 0.5	1	16	4	1.82	< 10	40	0.03	10	0.17	65

CERTIFICATION:

Hart Bichler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 YO8 1G0

:3-B
 Total P: 7
 Certificate No: 12-AUG-97
 Invoice No: 19735800
 P.O. Number :
 Account : OQN

Project :
 Comments: ATTN:RICK DIMENT

CERTIFICATE OF ANALYSIS A9735800

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21000E 18775N	201	202	3	< 0.01	16	270	12	< 2	2	12	0.05	< 10	< 10	71	< 10	100
21000E 18800N	201	202	2	0.01	23	460	14	< 2	3	13	0.03	< 10	< 10	49	< 10	76
21000E 18825N	201	202	1	< 0.01	26	340	12	2	4	17	0.03	< 10	< 10	42	< 10	68
21000E 18850N	---	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21000E 18875N	---	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21000E 18900N	201	202	2	< 0.01	26	270	10	< 2	3	20	0.01	< 10	< 10	33	< 10	86
21000E 18925N	201	202	1	< 0.01	23	700	14	< 2	3	31	0.02	< 10	< 10	38	< 10	74
21000E 18950N	---	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21000E 18975N	201	202	1	< 0.01	17	780	10	32	3	30	0.03	< 10	< 10	55	< 10	80
21000E 19000N	201	202	2	< 0.01	21	700	42	8	4	45	0.01	< 10	< 10	45	< 10	90
21000E 19025N	201	202	< 1	< 0.01	10	200	20	< 2	3	18	0.04	< 10	< 10	51	< 10	46
21000E 19050N	201	202	1	< 0.01	19	260	28	< 2	3	17	0.03	< 10	< 10	47	< 10	90
21000E 19075N	201	202	1	< 0.01	8	220	12	< 2	1	13	0.03	< 10	< 10	45	< 10	34
21000E 19100N	201	202	< 1	< 0.01	15	220	12	< 2	3	11	0.05	< 10	< 10	49	< 10	48
21000E 19125N	201	202	1	< 0.01	12	410	14	< 2	1	15	0.04	< 10	< 10	42	< 10	38
21000E 19150N	201	202	< 1	< 0.01	10	430	12	< 2	1	28	0.05	< 10	< 10	48	< 10	48
21000E 19175N	201	202	1	< 0.01	13	560	16	< 2	1	37	0.04	< 10	< 10	47	< 10	66
21000E 19200N	201	202	4	< 0.01	15	670	20	< 2	2	26	0.03	< 10	< 10	46	< 10	64
21000E 19225N	201	202	1	< 0.01	10	410	18	< 2	1	21	0.03	< 10	< 10	39	< 10	42
21000E 19250N	201	202	2	< 0.01	12	370	16	< 2	3	28	0.04	< 10	< 10	50	< 10	64
21000E 19275N	201	202	2	< 0.01	8	460	12	< 2	< 1	31	< 0.01	< 10	< 10	44	< 10	42
21000E 19300N	201	202	3	< 0.01	60	700	146	< 2	8	68	< 0.01	< 10	< 10	18	< 10	568
21000E 19325N	201	202	4	< 0.01	43	440	26	< 2	3	48	< 0.01	< 10	< 10	56	< 10	378
21000E 19350N	201	202	3	< 0.01	35	570	20	< 2	3	105	< 0.01	< 10	< 10	36	< 10	172
21000E 19375N	201	202	5	< 0.01	33	650	36	< 2	4	93	< 0.01	< 10	< 10	45	< 10	216
21000E 19400N	201	202	5	< 0.01	33	600	28	4	4	92	< 0.01	< 10	< 10	45	< 10	212
21000E 19425N	201	202	4	< 0.01	35	740	22	< 2	5	119	< 0.01	< 10	< 10	44	< 10	146
21100E 18000N	201	202	1	< 0.01	15	370	12	< 2	4	15	0.07	< 10	< 10	73	< 10	86
21100E 18025N	201	202	< 1	< 0.01	14	370	14	< 2	4	17	0.08	< 10	< 10	74	< 10	66
21100E 18050N	201	202	1	< 0.01	10	400	12	< 2	2	16	0.07	< 10	< 10	71	< 10	40
21100E 18075N	201	202	< 1	< 0.01	15	280	8	< 2	3	13	0.08	< 10	< 10	67	< 10	54
21100E 18100N	201	202	1	< 0.01	19	260	12	< 2	3	14	0.06	< 10	< 10	67	< 10	62
21100E 18125N	201	202	< 1	< 0.01	15	300	12	< 2	4	14	0.08	< 10	< 10	78	< 10	48
21100E 18150N	201	202	< 1	< 0.01	13	400	12	< 2	< 1	12	0.03	< 10	< 10	63	< 10	38
21100E 18175N	201	202	< 1	0.01	7	800	18	< 2	< 1	17	0.01	< 10	< 10	51	< 10	18
21100E 18200N	201	202	< 1	< 0.01	10	530	12	< 2	< 1	15	0.04	< 10	< 10	68	< 10	30
21100E 18225N	201	202	< 1	< 0.01	11	310	10	< 2	1	14	0.07	< 10	< 10	75	< 10	30
21100E 18250N	201	202	1	0.01	10	3170	18	< 2	< 1	10	< 0.01	< 10	< 10	42	< 10	32
21100E 18275N	201	202	< 1	< 0.01	5	320	16	< 2	< 1	9	0.04	< 10	< 10	67	< 10	38
21100E 18300N	201	202	1	< 0.01	5	360	12	< 2	< 1	7	0.02	< 10	< 10	53	< 10	22

CERTIFICATION: Hanti Bichler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN:RICK DIMENT

Form: 4-A
 Total Pgs: 7
 Certificate: 12-AUG-97
 Invoice No.: 19735800
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS A9735800

SAMPLE	PREP CODE		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm
21100E 18325N	201	202	< 5	< 0.2	1.90	10	110	< 0.5	< 2	0.15	< 0.5	8	27	14	2.60	< 10	30	0.05	10	0.46	205
21100E 18350N	201	202	< 5	< 0.2	2.17	8	140	< 0.5	< 2	0.12	< 0.5	5	32	15	2.86	< 10	50	0.05	10	0.43	155
21100E 18375N	201	202	< 5	< 0.2	1.49	2	140	< 0.5	< 2	0.10	< 0.5	2	21	7	1.95	< 10	30	0.06	10	0.20	90
21100E 18400N	201	202	< 5	< 0.2	1.97	10	110	< 0.5	< 2	0.13	< 0.5	4	27	9	3.20	10	40	0.05	10	0.35	185
21100E 18425N	201	202	< 5	< 0.2	1.83	12	140	< 0.5	< 2	0.10	< 0.5	6	27	10	3.23	< 10	20	0.05	10	0.39	230
21100E 18450N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 18475N	201	202	< 5	< 0.2	1.55	8	110	< 0.5	< 2	0.11	< 0.5	7	23	17	2.51	< 10	30	0.06	10	0.34	210
21100E 18500N	201	202	< 5	< 0.2	1.92	8	170	< 0.5	< 2	0.17	< 0.5	9	27	24	2.58	< 10	30	0.07	10	0.46	305
21100E 18525N	201	202	< 5	< 0.2	1.54	6	110	< 0.5	< 2	0.14	< 0.5	4	25	10	2.19	< 10	40	0.05	10	0.33	145
21100E 18550N	201	202	< 5	0.6	1.50	8	310	0.5	< 2	0.60	15.5	12	52	52	2.26	< 10	340	0.09	30	0.34	450
21100E 18575N	201	202	< 5	0.8	1.00	6	300	< 0.5	< 2	1.18	5.0	4	30	34	1.37	< 10	250	0.05	10	0.16	190
21100E 18600N	201	202	< 5	1.4	1.65	16	250	0.5	< 2	0.68	3.5	6	56	40	2.87	< 10	280	0.07	10	0.31	240
21100E 18625N	201	202	< 5	0.2	1.70	10	130	< 0.5	< 2	0.17	1.5	5	45	21	3.10	10	70	0.05	10	0.35	200
21100E 18650N	201	202	< 5	1.8	1.38	4	240	0.5	< 2	0.19	4.5	4	34	32	2.24	< 10	120	0.04	10	0.16	130
21100E 18675N	201	202	< 5	0.4	1.58	8	180	0.5	< 2	0.14	3.0	5	41	25	2.77	< 10	90	0.04	10	0.27	180
21100E 18700N	201	202	< 5	0.8	1.78	8	200	< 0.5	< 2	0.21	1.5	6	39	19	2.65	< 10	160	0.05	10	0.34	245
21100E 18725N	201	202	< 5	0.6	1.51	10	270	0.5	< 2	0.18	0.5	13	36	34	3.06	< 10	60	0.07	20	0.18	650
21100E 18750N	201	202	< 5	< 0.2	2.14	8	190	< 0.5	< 2	0.15	< 0.5	7	36	14	3.24	< 10	70	0.05	10	0.37	260
21100E 18775N	201	202	< 5	0.2	1.24	12	200	0.5	< 2	0.81	3.5	6	44	46	2.08	< 10	260	0.07	20	0.27	290
21100E 18800N	201	202	< 5	0.8	0.59	24	190	0.5	< 2	2.35	11.0	5	22	61	1.49	< 10	1120	0.07	30	0.60	270
21100E 18825N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 18850N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 18875N	201	202	< 5	< 0.2	0.41	< 2	260	< 0.5	< 2	4.08	< 0.5	4	6	14	0.56	< 10	830	0.01	< 10	0.37	325
21100E 18900N	201	202	55	0.2	0.74	8	390	0.5	< 2	3.09	0.5	7	11	28	1.22	< 10	35000	0.04	10	0.33	435
21100E 18925N	201	202	20	0.4	1.37	52	520	0.5	< 2	0.23	0.5	3	19	20	1.69	< 10	350	0.11	20	0.23	80
21100E 18950N	201	202	< 5	< 0.2	1.35	6	190	< 0.5	< 2	0.19	< 0.5	4	23	13	2.01	< 10	60	0.07	10	0.33	130
21100E 18975N	201	202	< 5	0.4	1.58	6	850	0.5	< 2	0.53	< 0.5	7	19	21	1.93	< 10	230	0.16	20	0.42	295
21100E 19000N	201	202	35	< 0.2	2.40	112	180	< 0.5	< 2	0.08	< 0.5	7	30	12	3.24	< 10	100	0.07	10	0.43	230
21100E 19025N	201	202	< 5	0.2	1.78	10	190	0.5	< 2	0.06	< 0.5	6	24	16	2.41	< 10	40	0.07	10	0.37	195
21100E 19050N	201	202	< 5	< 0.2	1.78	8	160	< 0.5	< 2	0.07	< 0.5	6	25	15	2.51	< 10	10	0.07	10	0.37	175
21100E 19075N	201	202	380	< 0.2	1.75	484	350	0.5	< 2	0.05	< 0.5	8	20	15	2.92	< 10	10	0.11	30	0.23	285
21100E 19100N	201	202	45	< 0.2	1.26	222	660	1.5	< 2	0.08	0.5	18	21	50	4.65	< 10	40	0.21	50	0.16	585
21100E 19125N	201	202	105	0.8	0.98	586	970	0.5	< 2	0.09	3.0	14	15	33	3.36	< 10	170	0.21	30	0.08	1005
21100E 19150N	201	202	< 5	< 0.2	1.08	62	1080	0.5	< 2	0.03	0.5	6	17	37	3.36	< 10	110	0.20	20	0.08	205
21100E 19175N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 19200N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 19225N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 19250N	201	202	< 5	0.8	1.37	12	680	< 0.5	< 2	0.06	0.5	5	18	18	2.89	< 10	10	0.10	30	0.09	110
21100E 19275N	201	202	< 5	2.2	2.14	14	380	0.5	< 2	0.07	1.0	10	35	24	3.43	< 10	60	0.08	10	0.36	245
21100E 19300N	201	202	< 5	0.4	3.02	18	450	0.5	< 2	0.11	< 0.5	8	39	32	3.78	10	60	0.13	10	0.49	260

CERTIFICATION:

Haut Bichler



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT

Total P : 4-B
Certific. : 7
Date: 12-AUG-97
Invoice No. : 19735800
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9735800

SAMPLE	PREP CODE	Mo ppm	Na %	Mg ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21100E 18325M	201 202	< 1	< 0.01	19	410	10	< 2	3	13	0.05	< 10	< 10	45	< 10	56
21100E 18350M	201 202	< 1	< 0.01	12	320	12	< 2	4	12	0.06	< 10	< 10	55	< 10	46
21100E 18375M	201 202	< 1	< 0.01	7	480	12	< 2	1	13	0.05	< 10	< 10	59	< 10	24
21100E 18400M	201 202	< 1	< 0.01	11	380	12	< 2	2	13	0.06	< 10	< 10	70	< 10	42
21100E 18425M	201 202	< 1	< 0.01	14	260	12	< 2	3	11	0.06	< 10	< 10	64	< 10	58
21100E 18450M	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 18475M	201 202	< 1	< 0.01	19	420	10	< 2	2	13	0.04	< 10	< 10	49	< 10	58
21100E 18500M	201 202	< 1	< 0.01	22	470	10	< 2	3	16	0.06	< 10	< 10	52	< 10	64
21100E 18525M	201 202	< 1	< 0.01	12	490	10	< 2	1	14	0.05	< 10	< 10	51	< 10	40
21100E 18550M	201 202	1	< 0.01	328	2510	10	2	4	50	0.03	< 10	< 10	298	10	2740
21100E 18575M	201 202	1	0.01	81	1610	8	< 2	< 1	75	< 0.01	< 10	< 10	149	< 10	504
21100E 18600M	201 202	5	< 0.01	82	6440	10	2	2	49	0.02	< 10	< 10	207	< 10	514
21100E 18625M	201 202	2	< 0.01	27	3320	10	< 2	1	17	0.02	< 10	10	187	< 10	172
21100E 18650M	201 202	2	< 0.01	49	3870	12	< 2	< 1	17	< 0.01	< 10	< 10	109	< 10	362
21100E 18675M	201 202	1	< 0.01	54	2770	10	< 2	< 1	14	< 0.01	< 10	< 10	125	< 10	518
21100E 18700M	201 202	1	< 0.01	48	2390	10	< 2	1	15	0.02	< 10	< 10	93	< 10	552
21100E 18725M	201 202	1	0.01	91	1310	18	< 2	< 1	14	0.01	< 10	< 10	109	< 10	444
21100E 18750M	201 202	1	< 0.01	25	880	12	< 2	3	14	0.05	< 10	< 10	88	< 10	126
21100E 18775M	201 202	8	< 0.01	68	2750	12	6	< 1	29	< 0.01	< 10	< 10	152	< 10	418
21100E 18800M	201 202	28	< 0.01	102	1370	8	8	3	50	< 0.01	< 10	< 10	174	< 10	764
21100E 18825M	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 18850M	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 18875M	201 202	< 1	< 0.01	9	860	2	< 2	1	80	0.01	< 10	< 10	9	< 10	38
21100E 18900M	201 202	1	< 0.01	20	1040	8	< 2	3	67	0.01	< 10	< 10	30	< 10	38
21100E 18925M	201 202	1	< 0.01	14	670	18	16	3	36	0.01	< 10	< 10	41	< 10	56
21100E 18950M	201 202	1	< 0.01	12	450	10	6	1	21	0.04	< 10	< 10	53	< 10	56
21100E 18975M	201 202	< 1	< 0.01	18	890	12	< 2	4	68	< 0.01	< 10	< 10	32	< 10	60
21100E 19000M	201 202	1	< 0.01	16	440	24	< 2	3	15	0.03	< 10	< 10	53	< 10	68
21100E 19025M	201 202	< 1	< 0.01	18	190	14	< 2	3	9	0.02	< 10	< 10	39	< 10	60
21100E 19050M	201 202	1	< 0.01	18	180	10	< 2	3	9	0.03	< 10	< 10	41	< 10	60
21100E 19075M	201 202	1	< 0.01	17	290	16	6	3	29	0.01	< 10	< 10	42	< 10	90
21100E 19100M	201 202	2	< 0.01	46	650	32	2	5	60	0.01	< 10	< 10	42	< 10	170
21100E 19125M	201 202	9	< 0.01	31	790	50	20	2	88	< 0.01	< 10	< 10	58	< 10	166
21100E 19150M	201 202	13	< 0.01	41	960	50	22	1	122	< 0.01	< 10	< 10	91	< 10	206
21100E 19175M	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 19200M	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 19225M	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21100E 19250M	201 202	4	< 0.01	24	450	30	6	3	36	0.03	< 10	< 10	85	< 10	218
21100E 19275M	201 202	3	< 0.01	35	310	20	< 2	5	23	0.04	< 10	< 10	66	< 10	212
21100E 19300M	201 202	5	< 0.01	32	370	16	< 2	5	28	0.08	< 10	< 10	84	< 10	150

CERTIFICATION: Hart Bichler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

5-A
 Total P : 7
 Certificate Date: 12-AUG-97
 Invoice No. : I9735800
 P.O. Number :
 Account : OQN

Project :
 Comments: ATTN:RICK DIMENT

CERTIFICATE OF ANALYSIS A9735800

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
21100E 19325W	201	202	< 5	2.0	1.34	124	970	0.5	2	0.02	1.0	7	17	58	5.95	< 10	40	0.27	30	0.08	70
21100E 19350W	201	202	< 5	0.6	1.66	28	850	< 0.5	< 2	< 0.01	0.5	4	17	43	3.94	< 10	60	0.22	30	0.19	55
21100E 19375W	201	202	< 5	0.6	0.76	32	1250	< 0.5	2	0.06	1.0	2	14	31	2.94	< 10	30	0.18	30	0.06	35
21100E 19400W	201	202	< 5	< 0.2	1.06	8	730	< 0.5	< 2	0.23	1.0	9	19	24	2.26	< 10	40	0.11	20	0.29	275
21100E 19425W	201	202	< 5	0.2	0.97	12	1200	0.5	< 2	0.07	2.5	8	15	39	3.27	< 10	120	0.14	30	0.13	110
21100E 19450W	201	202	< 5	< 0.2	1.40	4	570	0.5	2	0.06	0.5	11	24	25	3.76	< 10	30	0.09	20	0.26	225
21200E 18000W	201	202	< 5	< 0.2	2.10	10	230	< 0.5	< 2	0.08	< 0.5	8	33	12	3.11	10	10	0.06	10	0.46	485
21200E 18025W	201	202	< 5	< 0.2	2.12	10	180	< 0.5	< 2	0.12	< 0.5	6	35	13	3.14	10	30	0.06	10	0.49	195
21200E 18050W	201	202	< 5	< 0.2	1.68	12	90	< 0.5	< 2	0.10	< 0.5	5	35	11	3.74	10	10	0.06	10	0.42	180
21200E 18075W	201	202	< 5	< 0.2	2.03	10	150	< 0.5	< 2	0.10	< 0.5	4	29	8	3.57	10	10	0.06	10	0.31	210
21200E 18100W	201	202	< 5	< 0.2	1.81	6	140	< 0.5	< 2	0.13	< 0.5	5	28	8	2.61	< 10	10	0.07	10	0.37	160
21200E 18125W	201	202	< 5	< 0.2	1.79	4	130	< 0.5	2	0.13	< 0.5	4	26	8	2.59	10	20	0.06	10	0.30	125
21200E 18150W	201	202	< 5	< 0.2	1.90	4	160	< 0.5	< 2	0.18	< 0.5	7	31	16	2.49	< 10	10	0.07	10	0.46	215
21200E 18175W	201	202	< 5	< 0.2	1.40	4	120	< 0.5	< 2	0.21	< 0.5	6	25	18	2.14	< 10	10	0.06	10	0.42	175
21200E 18200W	201	202	< 5	< 0.2	1.80	4	110	< 0.5	< 2	0.11	< 0.5	5	33	10	2.92	< 10	30	0.06	10	0.41	155
21200E 18225W	201	202	< 5	< 0.2	1.30	4	120	< 0.5	< 2	0.04	< 0.5	1	17	11	1.11	< 10	50	0.04	10	0.07	35
21200E 18250W	201	202	< 5	< 0.2	1.22	2	120	< 0.5	< 2	0.06	< 0.5	< 1	21	10	1.01	< 10	70	0.04	10	0.07	20
21200E 18275W	201	202	< 5	< 0.2	1.23	10	90	< 0.5	< 2	0.08	< 0.5	2	21	6	2.10	10	30	0.05	10	0.19	85
21200E 18300W	201	202	< 5	< 0.2	1.26	12	110	< 0.5	< 2	0.10	< 0.5	5	24	8	2.57	< 10	10	0.05	10	0.35	195
21200E 18325W	201	202	< 5	< 0.2	1.20	6	150	< 0.5	< 2	0.08	< 0.5	1	17	6	1.39	< 10	10	0.05	10	0.16	80
21200E 18350W	201	202	< 5	< 0.2	1.46	6	240	< 0.5	< 2	0.14	< 0.5	4	23	13	1.97	< 10	40	0.07	10	0.27	120
21200E 18375W	201	202	< 5	< 0.2	1.79	2	380	< 0.5	< 2	0.07	< 0.5	2	24	18	1.73	< 10	50	0.06	10	0.14	55
21200E 18400W	201	202	< 5	< 0.2	2.15	8	190	< 0.5	< 2	0.11	< 0.5	6	31	15	3.20	10	50	0.07	10	0.35	200
21200E 18425W	201	202	< 5	< 0.2	1.16	8	140	< 0.5	< 2	0.10	< 0.5	3	17	10	1.47	< 10	30	0.05	10	0.11	205
21200E 18450W	201	202	< 5	< 0.2	2.10	10	200	< 0.5	< 2	0.11	< 0.5	6	30	14	3.31	10	30	0.07	10	0.32	180
21200E 18475W	201	202	< 5	< 0.2	1.35	6	150	< 0.5	< 2	0.11	< 0.5	3	19	8	2.02	< 10	20	0.06	10	0.20	120
21200E 18500W	201	202	< 5	< 0.2	2.03	8	150	< 0.5	< 2	0.10	< 0.5	7	28	11	3.03	10	20	0.05	10	0.30	235
21200E 18525W	201	202	< 5	< 0.2	1.60	2	130	< 0.5	< 2	0.08	< 0.5	3	19	7	2.18	< 10	40	0.07	10	0.19	110
21200E 18550W	201	202	< 5	< 0.2	2.03	4	110	< 0.5	< 2	0.13	< 0.5	6	32	8	3.29	< 10	40	0.06	10	0.43	205
21200E 18575W	201	202	< 5	< 0.2	1.71	10	100	< 0.5	< 2	0.12	< 0.5	5	28	9	3.91	10	20	0.07	10	0.31	245
21200E 18600W	201	202	< 5	< 0.2	1.93	10	120	< 0.5	2	0.12	< 0.5	7	33	10	4.69	10	30	0.06	10	0.43	330
21200E 18625W	201	202	< 5	< 0.2	2.00	8	130	< 0.5	< 2	0.09	< 0.5	6	27	12	3.21	10	30	0.05	10	0.34	220
21200E 18650W	201	202	< 5	< 0.2	1.23	10	80	< 0.5	< 2	0.07	< 0.5	5	23	10	3.16	< 10	30	0.04	< 10	0.28	245
21200E 18675W	201	202	< 5	< 0.2	0.74	< 2	80	< 0.5	< 2	0.03	< 0.5	1	12	4	0.93	< 10	110	0.02	< 10	0.05	20
21200E 18700W	201	202	< 5	< 0.2	1.22	10	90	< 0.5	< 2	0.17	< 0.5	6	20	15	2.34	< 10	20	0.03	10	0.36	180
21200E 18725W	201	202	< 5	0.2	1.40	8	190	< 0.5	< 2	0.24	1.5	8	31	27	2.39	< 10	130	0.05	10	0.35	240
21200E 18750W	201	202	< 5	< 0.2	1.14	6	120	< 0.5	< 2	0.15	< 0.5	5	24	14	1.98	< 10	70	0.04	10	0.31	120
21200E 18775W	201	202	< 5	2.0	1.54	14	880	1.0	< 2	0.70	5.0	14	65	51	2.74	< 10	540	0.11	30	0.26	560
21200E 18800W	201	202	< 5	8.0	0.82	22	320	1.0	< 2	2.56	8.0	5	103	129	1.47	< 10	1660	0.11	30	0.16	270
21200E 18825W	201	202	< 5	1.0	0.59	2	150	< 0.5	< 2	3.30	4.5	3	19	40	0.72	< 10	490	0.04	< 10	0.34	270

CERTIFICATION: *Haut Buchler*



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN:RICK DIMENT

:5-B
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CERTIFICATE OF ANALYSIS A9735800

SAMPLE	PREP CODE	Mo ppm	Na %	Al ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21100E 19325W	201 202	30	0.01	48	1260	48	16	5	303	< 0.01	< 10	< 10	127	< 10	490
21100E 19350W	201 202	8	0.01	34	730	32	2	5	81	< 0.01	< 10	< 10	64	< 10	188
21100E 19375W	201 202	12	0.01	16	740	26	2	2	78	< 0.01	< 10	< 10	81	< 10	126
21100E 19400W	201 202	3	0.01	27	620	14	< 2	3	71	0.01	< 10	< 10	46	< 10	136
21100E 19425W	201 202	7	0.01	36	730	16	< 2	4	97	< 0.01	< 10	< 10	54	< 10	206
21100E 19450W	201 202	3	0.01	39	560	14	< 2	4	45	< 0.01	< 10	< 10	45	< 10	210
21200E 18000W	201 202	1	< 0.01	15	350	12	< 2	3	12	0.06	< 10	< 10	64	< 10	78
21200E 18025W	201 202	1	< 0.01	17	310	10	< 2	3	14	0.06	< 10	< 10	64	< 10	62
21200E 18050W	201 202	1	< 0.01	14	340	10	< 2	3	11	0.06	< 10	< 10	74	< 10	50
21200E 18075W	201 202	< 1	< 0.01	10	260	10	< 2	3	13	0.08	< 10	< 10	71	< 10	50
21200E 18100W	201 202	< 1	< 0.01	13	240	10	< 2	3	13	0.07	< 10	< 10	55	< 10	44
21200E 18125W	201 202	< 1	< 0.01	11	230	12	< 2	2	14	0.07	< 10	< 10	61	< 10	36
21200E 18150W	201 202	< 1	< 0.01	19	430	10	< 2	3	16	0.06	< 10	< 10	56	< 10	54
21200E 18175W	201 202	< 1	< 0.01	19	500	10	< 2	3	18	0.06	< 10	< 10	47	< 10	54
21200E 18200W	201 202	< 1	< 0.01	19	400	8	< 2	1	12	0.05	< 10	< 10	64	< 10	48
21200E 18225W	201 202	1	< 0.01	3	1110	12	< 2	< 1	9	0.02	< 10	< 10	37	< 10	14
21200E 18250W	201 202	< 1	0.01	4	1000	14	< 2	< 1	11	< 0.01	< 10	< 10	32	< 10	10
21200E 18275W	201 202	1	< 0.01	7	380	12	< 2	1	10	0.04	< 10	< 10	74	< 10	30
21200E 18300W	201 202	< 1	< 0.01	11	270	10	< 2	2	10	0.05	< 10	< 10	49	< 10	44
21200E 18325W	201 202	< 1	< 0.01	6	420	14	< 2	1	10	0.05	< 10	< 10	49	< 10	26
21200E 18350W	201 202	1	0.01	12	640	12	< 2	< 1	20	0.04	< 10	< 10	53	< 10	44
21200E 18375W	201 202	< 1	0.01	9	1460	14	< 2	< 1	14	0.02	< 10	< 10	49	< 10	22
21200E 18400W	201 202	1	< 0.01	14	470	12	< 2	3	15	0.06	< 10	< 10	69	< 10	56
21200E 18425W	201 202	1	< 0.01	6	380	10	< 2	< 1	15	0.03	< 10	< 10	67	< 10	24
21200E 18450W	201 202	1	< 0.01	14	600	16	< 2	3	15	0.06	< 10	< 10	77	< 10	48
21200E 18475W	201 202	1	< 0.01	7	300	12	< 2	1	15	0.07	< 10	< 10	69	< 10	32
21200E 18500W	201 202	1	< 0.01	12	280	10	< 2	3	13	0.07	< 10	< 10	68	< 10	50
21200E 18525W	201 202	< 1	< 0.01	8	340	12	< 2	1	11	0.04	< 10	< 10	46	< 10	32
21200E 18550W	201 202	< 1	< 0.01	13	280	10	< 2	3	14	0.06	< 10	< 10	58	< 10	50
21200E 18575W	201 202	1	< 0.01	10	330	10	< 2	3	16	0.09	< 10	< 10	84	< 10	48
21200E 18600W	201 202	1	< 0.01	13	350	14	< 2	3	15	0.08	< 10	< 10	82	< 10	56
21200E 18625W	201 202	< 1	< 0.01	16	290	14	< 2	3	11	0.06	< 10	< 10	67	< 10	56
21200E 18650W	201 202	1	< 0.01	10	420	10	< 2	1	9	0.03	< 10	< 10	55	< 10	44
21200E 18675W	201 202	< 1	< 0.01	2	610	10	< 2	< 1	7	< 0.01	< 10	< 10	26	< 10	10
21200E 18700W	201 202	< 1	< 0.01	16	620	8	< 2	1	14	0.03	< 10	< 10	39	< 10	52
21200E 18725W	201 202	< 1	< 0.01	39	1380	8	< 2	1	31	0.02	< 10	< 10	120	< 10	320
21200E 18750W	201 202	< 1	< 0.01	19	780	8	< 2	< 1	18	0.01	< 10	< 10	77	< 10	150
21200E 18775W	201 202	3	< 0.01	88	3970	10	4	< 1	57	< 0.01	< 10	< 10	139	< 10	486
21200E 18800W	201 202	12	< 0.01	200	6830	8	16	3	100	< 0.01	< 10	10	213	< 10	890
21200E 18825W	201 202	2	0.01	35	1710	6	6	< 1	69	0.01	< 10	< 10	70	< 10	110

CERTIFICATION: Hart Buchler



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SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
21200E 18850N	201 202	< 5	0.4	1.65	10	460	0.5	< 2	0.52	8.0	11	38	40	2.22	< 10	450	0.07	10	0.34	825
21200E 18875N	201 202	20	< 0.2	1.48	6	110	< 0.5	< 2	0.14	< 0.5	4	27	12	2.17	< 10	50	0.07	10	0.31	105
21200E 18900N	201 202	< 5	< 0.2	1.93	6	160	< 0.5	< 2	0.14	< 0.5	7	30	12	3.06	10	10	0.10	10	0.44	290
21200E 18925N	201 202	< 5	< 0.2	2.59	8	240	0.5	< 2	0.09	< 0.5	7	30	19	3.26	10	20	0.12	20	0.38	265
21200E 18950N	201 202	< 5	< 0.2	2.25	4	210	0.5	< 2	0.08	< 0.5	7	27	18	3.11	10	20	0.11	20	0.31	230
21200E 18975N	201 202	< 5	< 0.2	2.18	2	410	0.5	< 2	0.17	< 0.5	8	29	15	3.02	10	10	0.07	10	0.40	440
21200E 19000N	201 202	< 5	0.2	1.66	6	280	0.5	< 2	0.14	< 0.5	5	20	11	2.51	< 10	10	0.06	10	0.27	300
21200E 19025N	201 202	< 5	< 0.2	2.27	12	190	0.5	< 2	0.11	< 0.5	8	32	18	3.49	10	30	0.07	10	0.48	320
21200E 19050N	201 202	< 5	< 0.2	1.64	8	110	< 0.5	< 2	0.11	< 0.5	7	23	17	2.35	< 10	50	0.04	10	0.40	195
21200E 19075N	201 202	5	< 0.2	1.12	44	650	< 0.5	< 2	0.05	< 0.5	5	14	16	2.37	< 10	20	0.08	20	0.11	105
21200E 19100N	201 202	50	< 0.2	1.68	80	580	< 0.5	2	0.07	< 0.5	6	25	24	3.55	< 10	130	0.14	20	0.27	160
21200E 19125N	201 202	10	0.2	1.71	26	460	< 0.5	2	0.06	0.5	7	23	23	2.67	< 10	50	0.13	20	0.21	375
21200E 19150N	201 202	< 5	< 0.2	1.10	16	240	0.5	2	0.11	1.5	10	36	35	4.74	< 10	30	0.11	40	0.10	300
21200E 19175N	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21200E 19200N	201 202	< 5	< 0.2	1.38	2	440	< 0.5	< 2	0.06	0.5	8	14	17	2.71	< 10	10	0.11	30	0.08	150
21200E 19225N	201 202	< 5	1.0	1.55	24	1000	0.5	< 2	0.02	0.5	12	20	50	3.82	< 10	30	0.24	40	0.21	170
21200E 19250N	201 202	< 5	1.6	0.93	16	1060	< 0.5	< 2	0.03	0.5	3	15	25	1.74	< 10	30	0.22	30	0.05	30
21200E 19275N	201 202	< 5	1.0	0.86	22	1650	0.5	< 2	0.02	1.5	4	13	51	2.33	< 10	40	0.22	40	0.05	45
21200E 19300N	201 202	< 5	0.6	1.09	20	1390	< 0.5	< 2	0.04	0.5	6	16	38	2.68	< 10	40	0.18	30	0.07	75
21200E 19325N	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21200E 19350N	201 202	< 5	1.2	1.06	8	1010	< 0.5	< 2	0.67	2.5	4	13	37	1.41	< 10	250	0.09	10	0.22	105
21200E 19375N	201 202	< 5	0.2	1.16	8	680	< 0.5	< 2	0.52	2.0	5	24	21	1.68	< 10	70	0.07	10	0.31	140
21200E 19400N	201 202	< 5	1.0	0.91	14	840	0.5	< 2	0.19	2.0	10	14	55	3.11	< 10	180	0.16	20	0.25	205
21200E 19425N	201 202	< 5	< 0.2	1.43	6	580	< 0.5	< 2	0.15	0.5	6	23	17	2.37	< 10	30	0.09	10	0.35	180
21200E 19450N	201 202	< 5	< 0.2	1.31	6	370	< 0.5	< 2	0.16	< 0.5	5	22	16	2.00	< 10	50	0.07	10	0.32	115
21300E 18000N	201 202	< 5	< 0.2	1.84	6	310	0.5	< 2	0.22	< 0.5	7	28	30	2.27	< 10	30	0.10	20	0.45	250
21300E 18025N	201 202	< 5	< 0.2	1.43	2	220	< 0.5	< 2	0.19	< 0.5	5	27	19	1.90	< 10	30	0.07	20	0.37	160
21300E 18050N	201 202	< 5	< 0.2	1.63	6	140	< 0.5	< 2	0.15	< 0.5	4	26	12	1.90	< 10	30	0.08	10	0.35	125
21300E 18075N	201 202	< 5	< 0.2	1.34	2	140	< 0.5	< 2	0.12	< 0.5	4	23	11	1.90	< 10	40	0.08	10	0.32	115
21300E 18100N	201 202	30	< 0.2	1.20	2	130	< 0.5	< 2	0.12	< 0.5	4	21	11	1.69	< 10	10	0.09	10	0.29	105
21300E 18125N	201 202	20	< 0.2	1.75	2	140	< 0.5	< 2	0.12	< 0.5	4	29	11	2.28	< 10	30	0.07	10	0.32	110
21300E 18150N	201 202	< 5	< 0.2	1.60	4	160	< 0.5	< 2	0.19	< 0.5	6	27	15	2.20	< 10	20	0.06	10	0.40	240
21300E 18175N	201 202	< 5	< 0.2	1.15	< 2	90	< 0.5	< 2	0.09	< 0.5	1	21	5	1.25	< 10	30	0.06	10	0.14	50
21300E 18200N	201 202	< 5	< 0.2	1.49	8	110	< 0.5	< 2	0.12	< 0.5	3	25	8	2.08	< 10	30	0.07	10	0.28	105
21300E 18225N	201 202	< 5	< 0.2	1.68	6	140	< 0.5	2	0.14	< 0.5	6	29	13	2.66	< 10	20	0.06	10	0.38	230
21300E 18250N	201 202	< 5	< 0.2	1.52	2	120	< 0.5	< 2	0.11	< 0.5	4	25	8	2.31	< 10	20	0.04	10	0.30	135
21300E 18275N	201 202	< 5	< 0.2	1.19	6	100	< 0.5	< 2	0.08	< 0.5	3	20	9	1.81	< 10	30	0.04	10	0.25	80
21300E 18300N	201 202	< 5	< 0.2	1.52	6	160	< 0.5	< 2	0.14	< 0.5	9	25	15	2.45	< 10	30	0.05	10	0.36	450
21300E 18325N	201 202	< 5	< 0.2	1.42	6	150	< 0.5	< 2	0.11	< 0.5	5	24	14	2.25	< 10	30	0.05	10	0.29	140
21300E 18350N	201 202	< 5	< 0.2	2.35	8	160	< 0.5	< 2	0.13	< 0.5	7	39	11	3.22	< 10	50	0.06	10	0.46	160

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN:RICK DIMENT

:6-B
 Total F :7
 Certificate Date: 12-AUG-97
 Invoice No. :19735800
 P.O. Number :
 Account :OQN

CERTIFICATE OF ANALYSIS

A9735800

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21200E 18850W	201 202	3	< 0.01	49	1620	12	30	< 1	52	0.01	< 10	< 10	216	< 10	376
21200E 18875W	201 202	< 1	< 0.01	11	350	12	< 2	1	18	0.05	< 10	< 10	65	< 10	50
21200E 18900W	201 202	1	< 0.01	13	450	12	< 2	3	17	0.06	< 10	< 10	58	< 10	58
21200E 18925W	201 202	1	< 0.01	15	340	14	< 2	3	17	0.03	< 10	< 10	60	< 10	62
21200E 18950W	201 202	1	< 0.01	14	360	16	< 2	3	12	0.03	< 10	< 10	56	< 10	70
21200E 18975W	201 202	1	< 0.01	17	340	12	< 2	3	25	0.05	< 10	< 10	60	< 10	88
21200E 19000W	201 202	< 1	< 0.01	10	290	20	< 2	3	18	0.03	< 10	< 10	48	< 10	60
21200E 19025W	201 202	1	< 0.01	20	330	20	< 2	3	17	0.04	< 10	< 10	57	< 10	78
21200E 19050W	201 202	< 1	< 0.01	18	280	8	< 2	3	11	0.04	< 10	< 10	37	< 10	48
21200E 19075W	201 202	3	< 0.01	14	380	12	8	1	75	0.01	< 10	< 10	49	< 10	92
21200E 19100W	201 202	5	< 0.01	20	450	24	14	3	60	0.02	< 10	< 10	64	< 10	124
21200E 19125W	201 202	3	< 0.01	15	800	20	42	1	43	0.01	< 10	< 10	63	< 10	88
21200E 19150W	201 202	5	0.01	34	940	40	24	1	26	0.01	< 10	< 10	90	< 10	222
21200E 19175W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21200E 19200W	201 202	1	0.01	27	520	12	< 2	1	20	< 0.01	< 10	< 10	49	< 10	134
21200E 19225W	201 202	10	0.01	42	940	28	2	4	160	< 0.01	< 10	< 10	116	< 10	266
21200E 19250W	201 202	9	0.01	12	910	30	2	1	219	< 0.01	< 10	< 10	106	< 10	76
21200E 19275W	201 202	9	0.01	21	1040	24	2	2	220	< 0.01	< 10	< 10	82	< 10	140
21200E 19300W	201 202	8	0.01	25	890	22	2	2	135	< 0.01	< 10	< 10	80	< 10	154
21200E 19325W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21200E 19350W	201 202	5	0.01	32	740	14	< 2	3	153	< 0.01	< 10	< 10	46	< 10	72
21200E 19375W	201 202	4	< 0.01	26	830	14	< 2	3	213	0.01	< 10	< 10	44	< 10	80
21200E 19400W	201 202	10	0.02	50	920	18	< 2	4	177	< 0.01	< 10	< 10	72	< 10	214
21200E 19425W	201 202	1	< 0.01	18	330	12	< 2	3	31	0.03	< 10	< 10	44	< 10	80
21200E 19450W	201 202	1	< 0.01	15	370	8	< 2	2	30	0.03	< 10	< 10	43	< 10	58
21300E 18000W	201 202	3	< 0.01	17	670	10	< 2	3	28	0.06	< 10	< 10	108	< 10	76
21300E 18025W	201 202	1	< 0.01	14	500	10	< 2	3	24	0.06	< 10	< 10	57	< 10	62
21300E 18050W	201 202	< 1	< 0.01	13	380	8	< 2	2	16	0.05	< 10	< 10	42	< 10	54
21300E 18075W	201 202	< 1	< 0.01	11	350	8	< 2	1	13	0.04	< 10	< 10	39	< 10	44
21300E 18100W	201 202	< 1	< 0.01	11	350	8	< 2	1	12	0.03	< 10	< 10	35	< 10	40
21300E 18125W	201 202	< 1	< 0.01	13	440	10	< 2	1	13	0.05	< 10	< 10	54	< 10	42
21300E 18150W	201 202	< 1	< 0.01	16	380	10	< 2	3	18	0.06	< 10	< 10	49	< 10	56
21300E 18175W	201 202	< 1	< 0.01	5	320	8	< 2	< 1	12	0.03	< 10	< 10	42	< 10	18
21300E 18200W	201 202	1	< 0.01	11	320	10	< 2	1	12	0.05	< 10	< 10	57	< 10	38
21300E 18225W	201 202	< 1	< 0.01	16	520	10	< 2	2	14	0.05	< 10	< 10	56	< 10	58
21300E 18250W	201 202	< 1	< 0.01	11	390	10	< 2	1	13	0.04	< 10	< 10	51	< 10	44
21300E 18275W	201 202	1	< 0.01	9	480	10	< 2	1	10	0.03	< 10	< 10	43	< 10	32
21300E 18300W	201 202	< 1	< 0.01	15	590	10	< 2	1	14	0.03	< 10	< 10	47	< 10	56
21300E 18325W	201 202	1	< 0.01	12	560	10	< 2	1	12	0.04	< 10	< 10	49	< 10	44
21300E 18350W	201 202	< 1	< 0.01	15	320	12	< 2	5	14	0.07	< 10	< 10	60	< 10	56

CERTIFICATION: H. A. Buchler



Chemex Labs Ltd.

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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT

Total : 7-A
Certific. : 7
Date: 12-AUG-97
Invoice No. : 19735800
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9735800

SAMPLE	PREP CODE		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
			ppb FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm
21300E 18375M	201	202	< 5	< 0.2	1.36	14	90	< 0.5	< 2	0.09	< 0.5	4	25	8	3.66	10	10	0.06	10	0.22	205

CERTIFICATION: Hart Bechler



Chemex Labs Ltd.

Analytical Chemists - Geochemists - Registered Assayers
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Total F : 7-B
 : 7
 Certificate Date: 12-AUG-97
 Invoice No. : I9735800
 P.O. Number :
 Account : OQN

Project :
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS

A9735800

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21300E 18375M	201	202	1	< 0.01	9	450	8	< 2	2	12	0.09	< 10	< 10	87	< 10	36

CERTIFICATION: Howard B. ...



Chemex Labs Ltd.

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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: VIE
 Comments: ATTN: RICK DIMENT

Page: 1-A
 Total P: 2
 Certificate No: 05-AUG-97
 Invoice No: 19734217
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS A9734217

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
20600E 18250W	201 202	< 5	< 0.2	1.69	6	180	< 0.5	< 2	0.38	1.5	8	32	15	2.11	< 10	30	0.03	10	0.38	280
20600E 18275W	201 202	< 5	0.6	1.21	4	290	< 0.5	< 2	0.26	0.5	6	27	24	1.73	< 10	40	0.03	10	0.20	395
20600E 18300W	201 202	< 5	0.2	1.66	6	250	< 0.5	< 2	0.24	0.5	7	29	14	2.51	< 10	20	0.03	10	0.37	190
20600E 18325W	201 202	< 5	0.4	1.59	8	190	< 0.5	< 2	0.20	< 0.5	6	27	10	2.08	< 10	20	0.03	10	0.35	155
20600E 18350W	201 202	< 5	< 0.2	1.94	6	220	< 0.5	< 2	0.14	< 0.5	8	33	13	2.58	< 10	30	0.03	10	0.41	240
20600E 18375W	201 202	< 5	0.8	1.80	6	260	< 0.5	< 2	0.23	< 0.5	7	27	11	2.35	< 10	60	0.04	10	0.33	245
20600E 18400W	201 202	< 5	1.0	1.77	12	180	< 0.5	< 2	0.14	< 0.5	8	28	12	2.67	< 10	50	0.04	10	0.39	270
20600E 18425W	201 202	< 5	0.2	1.94	6	160	< 0.5	< 2	0.16	< 0.5	9	41	23	3.30	< 10	460	0.05	10	0.43	240
20600E 18450W	201 202	< 5	0.4	1.93	4	140	< 0.5	< 2	0.12	< 0.5	5	27	11	2.85	< 10	160	0.04	10	0.32	260
20600E 18475W	201 202	< 5	0.2	1.61	10	160	< 0.5	< 2	0.11	< 0.5	4	35	22	2.36	< 10	770	0.03	10	0.26	115
20600E 18500W	201 202	< 5	0.6	1.59	12	140	< 0.5	< 2	0.14	0.5	4	32	15	2.45	< 10	50	0.04	10	0.26	170
20600E 18525W	201 202	< 5	0.8	1.38	6	220	< 0.5	< 2	0.42	1.5	6	55	30	2.16	< 10	90	0.07	10	0.29	160
20600E 18550W	201 202	< 5	0.6	1.36	14	170	0.5	< 2	0.58	1.0	7	56	44	2.59	< 10	130	0.07	20	0.30	195
20600E 18575W	201 202	< 5	0.8	1.46	8	150	< 0.5	< 2	0.13	0.5	5	39	27	2.10	< 10	250	0.05	10	0.25	125
20600E 18600W	201 202	< 5	< 0.2	1.42	8	120	< 0.5	< 2	0.18	< 0.5	5	36	25	2.11	< 10	100	0.04	10	0.29	155
20600E 18625W	201 202	< 5	< 0.2	1.09	10	100	< 0.5	< 2	0.18	< 0.5	4	25	16	1.90	< 10	90	0.03	10	0.22	105
20600E 18650W	201 202	< 5	< 0.2	0.98	6	110	< 0.5	< 2	0.12	< 0.5	4	27	17	1.86	< 10	40	0.03	10	0.18	120
20600E 18675W	201 202	< 5	0.2	0.68	4	150	< 0.5	< 2	0.13	0.5	3	12	14	1.22	< 10	10	0.03	< 10	0.07	90
20600E 18700W	201 202	< 5	< 0.2	0.83	6	110	< 0.5	< 2	0.09	0.5	6	16	12	2.17	< 10	20	0.06	10	0.18	200
20600E 18725W	201 202	< 5	< 0.2	0.61	6	130	< 0.5	< 2	0.07	< 0.5	6	12	25	2.21	< 10	30	0.07	10	0.10	175
20600E 18750W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20600E 18775W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20600E 18800W	201 202	< 5	0.2	0.86	10	400	0.5	< 2	0.86	0.5	12	17	29	2.63	< 10	190	0.11	20	0.37	265
20600E 18825W	201 202	< 5	0.6	0.78	< 2	370	0.5	< 2	1.81	0.5	9	16	26	1.88	< 10	310	0.08	10	0.46	285
20600E 18850W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20600E 18875W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20600E 18900W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20600E 18925W	201 202	35	1.2	0.51	16	220	0.5	< 2	2.51	0.5	5	9	42	1.26	< 10	460	0.05	< 10	0.32	275
20600E 18950W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20600E 18975W	201 202	25	0.4	1.19	14	270	0.5	< 2	0.94	< 0.5	10	25	25	2.31	< 10	190	0.08	10	0.45	215
20600E 19000W	201 202	< 5	0.2	2.21	6	160	< 0.5	< 2	0.09	< 0.5	7	28	14	2.96	< 10	10	0.05	10	0.32	270
20600E 19025W	201 202	< 5	< 0.2	1.32	38	170	< 0.5	< 2	0.08	< 0.5	4	17	17	3.23	< 10	10	0.08	30	0.14	170
20600E 19050W	201 202	< 5	0.2	1.06	76	280	< 0.5	< 2	0.05	< 0.5	7	14	21	2.92	< 10	20	0.08	30	0.08	250
20600E 19075W	201 202	< 5	< 0.2	0.83	100	470	< 0.5	< 2	0.11	< 0.5	7	10	26	3.07	< 10	30	0.10	40	0.07	220
20600E 19100W	201 202	< 5	< 0.2	2.27	18	630	0.5	< 2	0.13	0.5	36	75	44	5.26	< 10	50	0.07	10	0.99	840
20600E 19125W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20600E 19150W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20600E 19175W	201 202	10	0.2	1.37	10	280	< 0.5	< 2	0.16	0.5	10	23	26	2.72	< 10	120	0.05	10	0.42	250
20600E 19200W	201 202	< 5	< 0.2	1.42	10	310	0.5	< 2	0.13	0.5	8	22	26	2.95	< 10	60	0.07	10	0.38	215
20600E 19225W	201 202	< 5	< 0.2	1.41	12	170	< 0.5	< 2	0.11	< 0.5	7	23	16	2.56	< 10	40	0.04	10	0.41	180

CERTIFICATION: *Paul Becker*



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: VIE
 Comments: ATTN: RICK DIMENT

Page 1 : 1-B
 Total P : 2
 Certific. : 05-AUG-97
 Invoice No. : 19734217
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9734217

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
20600E 18250N	201 202	1 < 0.01		29	340	6	2	3	16	0.04	< 10	< 10	128	< 10	198
20600E 18275N	201 202	3 < 0.01		28	720	8	< 2	1	15	0.03	< 10	< 10	77	< 10	132
20600E 18300N	201 202	< 1 < 0.01		20	590	8	2	3	14	0.04	< 10	< 10	67	< 10	92
20600E 18325N	201 202	1 < 0.01		16	760	8	4	2	16	0.04	< 10	< 10	61	< 10	66
20600E 18350N	201 202	< 1 < 0.01		20	400	8	2	3	13	0.06	< 10	< 10	65	< 10	90
20600E 18375N	201 202	1 < 0.01		17	400	8	< 2	1	17	0.05	< 10	< 10	66	< 10	68
20600E 18400N	201 202	1 < 0.01		17	380	8	< 2	3	12	0.06	< 10	< 10	60	< 10	76
20600E 18425N	201 202	< 1 < 0.01		41	710	6	4	3	14	0.05	< 10	< 10	89	< 10	178
20600E 18450N	201 202	1 < 0.01		13	330	10	2	3	12	0.06	< 10	< 10	72	< 10	92
20600E 18475N	201 202	1 < 0.01		21	1050	12	2	3	12	0.03	< 10	< 10	106	< 10	70
20600E 18500N	201 202	< 1 < 0.01		14	1590	10	< 2	1	14	0.04	< 10	< 10	91	< 10	78
20600E 18525N	201 202	4 < 0.01		58	2490	6	4	3	24	0.03	< 10	< 10	152	< 10	256
20600E 18550N	201 202	8 < 0.01		90	3250	6	8	3	26	0.03	< 10	< 10	193	< 10	390
20600E 18575N	201 202	1 < 0.01		31	1180	6	< 2	< 1	12	< 0.01	< 10	< 10	95	< 10	146
20600E 18600N	201 202	3 < 0.01		35	1770	6	2	2	14	0.03	< 10	< 10	97	< 10	146
20600E 18625N	201 202	2 < 0.01		19	2250	8	< 2	< 1	13	< 0.01	< 10	< 10	55	< 10	80
20600E 18650N	201 202	3 < 0.01		27	700	10	2	< 1	12	< 0.01	< 10	< 10	90	< 10	112
20600E 18675N	201 202	< 1 < 0.01		10	620	6	< 2	< 1	13	< 0.01	< 10	< 10	35	< 10	46
20600E 18700N	201 202	1 < 0.01		15	420	8	< 2	< 1	10	0.02	< 10	< 10	47	< 10	78
20600E 18725N	201 202	2 < 0.01		22	480	10	6	< 1	10	0.01	< 10	< 10	39	< 10	86
20600E 18750N	-- --	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad
20600E 18775N	-- --	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad
20600E 18800N	201 202	2 < 0.01		36	510	8	4	6	33	0.01	< 10	< 10	25	< 10	88
20600E 18825N	201 202	1 < 0.01		27	740	8	2	4	45	0.01	< 10	< 10	23	< 10	72
20600E 18850N	-- --	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad
20600E 18875N	-- --	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad
20600E 18900N	-- --	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad
20600E 18925N	201 202	< 1 < 0.01		24	1060	4	36	2	59	< 0.01	< 10	< 10	15	< 10	84
20600E 18950N	-- --	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad
20600E 18975N	201 202	1 < 0.01		29	810	6	16	6	42	0.03	< 10	< 10	36	< 10	78
20600E 19000N	201 202	3 < 0.01		16	280	14	4	3	13	0.05	< 10	< 10	63	< 10	128
20600E 19025N	201 202	6 < 0.01		19	490	20	14	1	15	0.03	< 10	< 10	54	< 10	208
20600E 19050N	201 202	1 < 0.01		19	380	76	8	1	36	0.01	< 10	< 10	44	< 10	200
20600E 19075N	201 202	4 < 0.01		26	550	46	14	1	52	< 0.01	< 10	< 10	37	< 10	314
20600E 19100N	201 202	1 < 0.01		70	610	46	2	5	23	0.02	< 10	< 10	69	< 10	162
20600E 19125N	-- --	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad
20600E 19150N	-- --	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad	NotRad
20600E 19175N	201 202	3 < 0.01		24	450	18	2	3	21	0.03	< 10	< 10	46	< 10	120
20600E 19200N	201 202	3 < 0.01		27	480	22	2	3	24	0.02	< 10	< 10	42	< 10	142
20600E 19225N	201 202	1 < 0.01		18	250	12	< 2	3	14	0.04	< 10	< 10	42	< 10	86

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: VIE
Comments: ATTN: RICK DIMENT

Page: 2-A
Total P: 2
Certific: 05-AUG-97
Invoice: I9734217
P.O. Number:
Account: OQN

CERTIFICATE OF ANALYSIS

A9734217

SAMPLE	PREP CODE		An ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
20600E 19250W	201	202	< 5	< 0.2	1.79	12	210	< 0.5	< 2	0.24	< 0.5	8	30	19	2.99	< 10	50	0.06	10	0.53	330
20600E 19275W	201	202	< 5	< 0.2	1.64	18	460	< 0.5	< 2	0.46	< 0.5	9	31	29	2.84	< 10	50	0.06	10	0.62	405
20600E 19300W	201	202	< 5	< 0.2	1.44	6	160	< 0.5	< 2	0.14	< 0.5	4	23	13	2.16	< 10	40	0.04	10	0.37	125
20600E 19325W	201	202	< 5	< 0.2	1.22	8	130	< 0.5	< 2	0.10	0.5	4	19	13	2.23	< 10	50	0.04	10	0.24	175
20600E 19350W	201	202	< 5	< 0.2	1.01	34	130	< 0.5	< 2	0.10	0.5	9	19	19	2.95	< 10	40	0.06	10	0.21	280
20600E 19375W	201	202	< 5	< 0.2	0.94	44	230	< 0.5	< 2	0.09	0.5	9	20	22	2.93	< 10	60	0.08	30	0.16	300
20600E 19400W	201	202	< 5	< 0.2	0.93	102	220	0.5	< 2	0.07	1.5	16	22	38	5.30	< 10	60	0.10	40	0.16	380
20600E 19425W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20600E 19450W	201	202	20	0.2	1.37	28	1160	0.5	< 2	0.45	2.5	12	29	32	2.64	< 10	200	0.10	20	0.46	300

CERTIFICATION:

Hart Bichler



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 212 Brooksbank Ave., North Vancouver
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: VIE
 Comments: ATTN:RICK DIMENT

Page 1 of 2
 Total Pgs: 2
 Certificate No.: 05-AUG-97
 Invoice No.: 19734217
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS

A9734217

SAMPLE	PREP CODE	Mo ppm	Ka %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
20600E 19250N	201 202	< 1	< 0.01	22	480	20	< 2	4	21	0.07	< 10	< 10	52	< 10	96
20600E 19275N	201 202	1	0.01	26	630	10	< 2	5	36	0.08	< 10	< 10	54	< 10	92
20600E 19300N	201 202	< 1	< 0.01	13	290	10	< 2	3	16	0.05	< 10	< 10	46	< 10	46
20600E 19325N	201 202	< 1	< 0.01	14	390	22	4	2	14	0.05	< 10	< 10	47	< 10	64
20600E 19350N	201 202	1	< 0.01	32	500	52	14	2	18	0.03	< 10	< 10	40	< 10	180
20600E 19375N	201 202	4	< 0.01	33	720	32	10	1	25	0.01	< 10	< 10	41	< 10	198
20600E 19400N	201 202	3	< 0.01	75	980	46	20	3	26	< 0.01	< 10	< 10	52	< 10	460
20600E 19425N	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20600E 19450N	201 202	3	< 0.01	43	630	16	8	5	83	0.03	< 10	< 10	53	< 10	216

CERTIFICATION:

Hart Buchler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

1-A
 Total P : 6
 Certificate No: 12-AUG-97
 Invoice No. : 19735801
 P.O. Number :
 Account : OQN

Project:
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9735801

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
21300E 18400W	201 202	< 5	< 0.2	1.51	8	110	< 0.5	< 2	0.09	< 0.5	3	22	7	2.17	< 10	20	0.04	10	0.25	100
21300E 18425W	201 202	< 5	< 0.2	1.76	10	130	< 0.5	< 2	0.10	< 0.5	4	28	15	2.53	< 10	30	0.06	10	0.35	155
21300E 18450W	201 202	< 5	< 0.2	1.37	8	90	< 0.5	< 2	0.09	< 0.5	4	26	9	3.40	< 10	20	0.05	10	0.31	225
21300E 18475W	201 202	< 5	< 0.2	1.74	8	130	< 0.5	< 2	0.10	< 0.5	4	28	9	2.58	< 10	40	0.05	10	0.32	155
21300E 18500W	201 202	< 5	< 0.2	1.64	8	130	< 0.5	< 2	0.14	< 0.5	6	25	15	2.43	< 10	30	0.05	10	0.39	185
21300E 18525W	201 202	< 5	< 0.2	2.00	10	190	< 0.5	< 2	0.13	< 0.5	6	31	14	2.69	< 10	30	0.07	10	0.40	170
21300E 18550W	201 202	< 5	< 0.2	1.60	8	220	< 0.5	< 2	0.09	< 0.5	8	22	16	2.32	< 10	10	0.06	10	0.19	485
21300E 18575W	201 202	< 5	< 0.2	2.05	8	140	< 0.5	< 2	0.09	< 0.5	6	26	12	2.97	< 10	50	0.04	10	0.29	160
21300E 18600W	201 202	< 5	< 0.2	1.58	4	170	< 0.5	< 2	0.09	< 0.5	6	22	8	2.71	< 10	30	0.03	10	0.19	355
21300E 18625W	201 202	< 5	< 0.2	1.26	6	80	< 0.5	< 2	0.07	< 0.5	1	19	5	2.32	< 10	10	0.03	10	0.13	75
21300E 18650W	201 202	< 5	< 0.2	1.37	8	70	< 0.5	< 2	0.07	< 0.5	5	23	10	3.27	< 10	10	0.04	< 10	0.26	180
21300E 18675W	201 202	< 5	< 0.2	0.96	8	60	< 0.5	< 2	0.05	< 0.5	1	14	9	2.30	< 10	10	0.03	10	0.10	80
21300E 18700W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21300E 18725W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21300E 18750W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21300E 18775W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21300E 18800W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21300E 18825W	201 202	< 5	< 0.2	1.28	6	80	< 0.5	< 2	0.07	< 0.5	3	21	7	2.12	< 10	40	0.02	< 10	0.25	105
21300E 18850W	201 202	< 5	< 0.2	1.27	4	90	< 0.5	< 2	0.04	< 0.5	4	17	13	2.35	< 10	10	0.05	10	0.21	105
21300E 18875W	201 202	< 5	< 0.2	1.92	8	180	< 0.5	< 2	0.03	< 0.5	9	19	25	3.69	< 10	10	0.10	30	0.28	170
21300E 18900W	201 202	< 5	< 0.2	1.82	4	160	0.5	< 2	0.03	< 0.5	13	20	32	3.72	< 10	30	0.13	30	0.28	250
21300E 18925W	201 202	< 5	< 0.2	1.79	6	130	< 0.5	< 2	0.07	< 0.5	9	23	17	3.00	< 10	10	0.07	10	0.31	360
21300E 18950W	201 202	< 5	< 0.2	2.62	8	150	0.5	< 2	0.08	< 0.5	10	32	20	3.45	< 10	40	0.08	10	0.44	285
21300E 18975W	201 202	< 5	< 0.2	1.85	6	140	0.5	< 2	0.04	< 0.5	8	21	31	3.88	< 10	10	0.15	30	0.28	200
21300E 19000W	201 202	< 5	< 0.2	1.31	4	260	< 0.5	< 2	0.08	< 0.5	2	14	11	1.49	< 10	10	0.07	20	0.11	95
21300E 19025W	201 202	< 5	0.2	1.68	8	390	0.5	< 2	0.12	< 0.5	8	19	26	2.62	< 10	50	0.11	30	0.20	345
21300E 19050W	201 202	< 5	< 0.2	1.67	12	190	0.5	< 2	0.08	< 0.5	8	24	22	3.79	< 10	30	0.11	20	0.29	370
21300E 19075W	201 202	< 5	< 0.2	1.58	2	170	< 0.5	< 2	0.12	< 0.5	5	24	13	2.63	< 10	40	0.08	10	0.32	270
21300E 19100W	201 202	< 5	< 0.2	1.25	10	150	< 0.5	< 2	0.13	< 0.5	5	21	11	2.37	< 10	40	0.07	10	0.36	145
21300E 19125W	201 202	< 5	< 0.2	0.78	28	310	< 0.5	< 2	0.05	< 0.5	5	14	15	2.36	< 10	10	0.07	20	0.13	140
21300E 19150W	201 202	< 5	< 0.2	1.32	28	240	< 0.5	< 2	0.05	< 0.5	10	19	18	2.98	< 10	40	0.07	20	0.25	375
21300E 19175W	201 202	< 5	0.2	0.70	20	220	< 0.5	< 2	0.03	< 0.5	4	12	21	2.16	< 10	10	0.06	20	0.06	105
21300E 19200W	201 202	< 5	0.2	0.84	26	960	< 0.5	< 2	0.02	< 0.5	5	12	27	3.20	< 10	10	0.17	40	0.03	80
21300E 19225W	201 202	10	1.6	1.30	20	1140	0.5	< 2	0.05	1.5	3	16	111	3.22	< 10	60	0.16	30	0.09	115
21300E 19250W	201 202	< 5	0.6	0.96	12	740	0.5	< 2	0.04	0.5	8	16	68	3.41	< 10	10	0.11	20	0.04	250
21300E 19275W	201 202	< 5	1.0	1.09	6	870	< 0.5	< 2	0.14	1.0	2	14	29	1.67	< 10	160	0.08	10	0.08	55
21300E 19300W	201 202	< 5	< 0.2	1.56	10	810	< 0.5	< 2	0.09	0.5	11	21	22	3.42	< 10	10	0.11	20	0.24	345
21300E 19325W	201 202	< 5	< 0.2	1.83	8	430	0.5	< 2	0.05	0.5	13	23	24	4.12	< 10	10	0.09	20	0.25	385
21300E 19350W	201 202	< 5	< 0.2	1.16	8	520	< 0.5	< 2	0.13	< 0.5	7	21	17	2.95	< 10	20	0.09	20	0.20	250
21300E 19375W	201 202	< 5	< 0.2	1.79	8	590	< 0.5	< 2	0.09	< 0.5	12	32	25	3.93	< 10	40	0.08	20	0.51	355

CERTIFICATION:

Hart Buchler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN:RICK DIMENT

Total F : 1-B
Certific. : 6
Date: 12-AUG-97
Invoice No. : I9735801
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9735801

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21300E 18400W	201 202	1	0.01	8	240	12	2	2	11	0.06	< 10	< 10	52	< 10	34
21300E 18425W	201 202	1	0.01	14	780	10	2	1	14	0.04	< 10	< 10	56	< 10	52
21300E 18450W	201 202	1	0.01	11	370	8	< 2	2	13	0.07	< 10	< 10	68	< 10	46
21300E 18475W	201 202	1	0.01	11	420	10	< 2	3	13	0.05	< 10	< 10	56	< 10	46
21300E 18500W	201 202	1	0.01	16	480	8	< 2	3	14	0.05	< 10	< 10	44	< 10	60
21300E 18525W	201 202	1	0.01	15	540	10	< 2	3	17	0.06	< 10	< 10	59	< 10	56
21300E 18550W	201 202	1	0.01	12	750	10	< 2	1	14	0.04	< 10	< 10	59	< 10	54
21300E 18575W	201 202	1	0.01	17	400	8	2	3	12	0.05	< 10	< 10	42	< 10	62
21300E 18600W	201 202	1	0.01	8	360	10	< 2	2	11	0.05	< 10	< 10	59	< 10	66
21300E 18625W	201 202	1	< 0.01	3	230	12	< 2	1	10	0.07	< 10	< 10	61	< 10	18
21300E 18650W	201 202	1	0.01	11	290	10	< 2	2	9	0.06	< 10	< 10	55	< 10	48
21300E 18675W	201 202	1	< 0.01	6	260	10	< 2	1	6	0.05	< 10	< 10	60	< 10	28
21300E 18700W	-- --	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod
21300E 18725W	-- --	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod
21300E 18750W	-- --	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod
21300E 18775W	-- --	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod
21300E 18800W	-- --	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod	NotRod
21300E 18825W	201 202	1	0.01	9	310	8	< 2	1	8	0.02	< 10	< 10	47	< 10	42
21300E 18850W	201 202	1	0.01	12	280	12	< 2	1	9	0.02	< 10	< 10	39	< 10	44
21300E 18875W	201 202	1	0.01	24	400	20	< 2	3	20	< 0.01	< 10	< 10	34	< 10	88
21300E 18900W	201 202	2	0.01	29	410	20	< 2	4	12	< 0.01	< 10	< 10	29	< 10	102
21300E 18925W	201 202	1	0.01	14	390	14	< 2	2	11	0.03	< 10	< 10	46	< 10	68
21300E 18950W	201 202	1	0.01	22	330	14	2	3	21	0.03	< 10	< 10	43	< 10	72
21300E 18975W	201 202	1	0.01	21	670	20	< 2	3	13	< 0.01	< 10	< 10	38	< 10	98
21300E 19000W	201 202	1	0.01	8	460	12	< 2	< 1	13	0.01	< 10	< 10	32	< 10	34
21300E 19025W	201 202	1	0.01	17	870	24	2	2	32	< 0.01	< 10	< 10	33	< 10	68
21300E 19050W	201 202	2	0.01	18	520	20	< 2	3	18	0.01	< 10	< 10	51	< 10	88
21300E 19075W	201 202	1	0.01	13	360	14	< 2	2	17	0.02	< 10	< 10	38	< 10	52
21300E 19100W	201 202	1	0.01	14	430	10	< 2	2	18	0.03	< 10	< 10	36	< 10	56
21300E 19125W	201 202	3	0.01	17	340	16	4	1	48	< 0.01	< 10	< 10	41	< 10	84
21300E 19150W	201 202	3	0.01	20	390	22	4	2	31	< 0.01	< 10	< 10	33	< 10	98
21300E 19175W	201 202	3	0.01	17	560	14	2	< 1	33	< 0.01	< 10	< 10	38	< 10	94
21300E 19200W	201 202	4	0.02	24	770	26	2	2	246	< 0.01	< 10	< 10	49	< 10	114
21300E 19225W	201 202	8	0.03	44	1340	28	4	5	376	< 0.01	< 10	< 10	69	< 10	198
21300E 19250W	201 202	6	0.04	55	1190	22	2	2	168	< 0.01	< 10	< 10	86	< 10	404
21300E 19275W	201 202	3	0.01	21	1170	16	< 2	3	63	< 0.01	< 10	< 10	29	< 10	60
21300E 19300W	201 202	3	0.02	36	500	18	2	3	40	0.01	< 10	< 10	47	< 10	150
21300E 19325W	201 202	3	0.02	43	590	18	2	3	38	< 0.01	< 10	< 10	46	< 10	188
21300E 19350W	201 202	3	0.01	26	410	12	< 2	3	44	0.01	< 10	< 10	59	< 10	86
21300E 19375W	201 202	4	0.02	45	400	12	< 2	4	47	< 0.01	< 10	< 10	62	< 10	142

CERTIFICATION:

Hart Bickler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

2-A
 Total P: 6
 Certificate: 12-AUG-97
 Invoice No.: 19735801
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS A9735801

SAMPLE	PREP CODE	As ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
21300E 19400W	201 202	< 5	< 0.2	1.84	8	370	< 0.5	< 2	0.10	< 0.5	5	27	23	2.74	< 10	20	0.09	10	0.33	185
21300E 19425W	201 202	< 5	0.4	2.49	16	700	< 0.5	< 2	0.08	< 0.5	4	32	20	3.77	< 10	10	0.11	< 10	0.39	235
21300E 19450W	201 202	< 5	0.2	1.73	20	760	< 0.5	< 2	0.07	< 0.5	4	25	17	3.47	< 10	40	0.11	< 10	0.38	195
21400E 18000W	201 202	< 5	< 0.2	1.64	8	220	< 0.5	< 2	0.19	0.5	4	33	26	2.05	< 10	70	0.04	10	0.38	135
21400E 18025W	201 202	< 5	< 0.2	1.35	6	190	< 0.5	< 2	0.14	< 0.5	3	25	21	1.86	< 10	60	0.04	10	0.30	105
21400E 18050W	201 202	< 5	< 0.2	1.11	4	210	< 0.5	< 2	0.06	< 0.5	1	20	19	1.37	< 10	60	0.04	10	0.24	60
21400E 18075W	201 202	< 5	< 0.2	1.44	6	150	< 0.5	< 2	0.15	< 0.5	5	25	23	2.06	< 10	30	0.04	10	0.38	155
21400E 18100W	201 202	< 5	< 0.2	1.24	6	110	< 0.5	< 2	0.11	< 0.5	3	23	12	1.58	< 10	30	0.05	10	0.27	80
21400E 18125W	201 202	< 5	< 0.2	1.31	4	100	< 0.5	< 2	0.10	< 0.5	2	21	9	1.53	< 10	10	0.06	10	0.25	70
21400E 18150W	201 202	< 5	< 0.2	1.09	4	80	< 0.5	< 2	0.07	< 0.5	1	19	7	1.15	< 10	30	0.05	10	0.14	50
21400E 18175W	201 202	< 5	< 0.2	1.37	6	100	< 0.5	< 2	0.11	< 0.5	3	24	11	1.85	< 10	40	0.05	10	0.27	105
21400E 18200W	201 202	< 5	< 0.2	1.61	8	90	< 0.5	< 2	0.12	< 0.5	4	24	10	2.23	< 10	10	0.04	10	0.35	130
21400E 18225W	201 202	< 5	< 0.2	1.44	8	100	< 0.5	< 2	0.11	< 0.5	3	25	10	2.17	< 10	30	0.05	10	0.26	105
21400E 18250W	201 202	< 5	< 0.2	1.53	8	110	< 0.5	< 2	0.13	< 0.5	5	25	12	2.28	< 10	20	0.04	10	0.35	165
21400E 18275W	201 202	< 5	< 0.2	1.55	6	140	< 0.5	< 2	0.15	< 0.5	6	24	12	2.28	< 10	20	0.05	10	0.37	180
21400E 18300W	201 202	< 5	< 0.2	1.22	6	80	< 0.5	< 2	0.10	< 0.5	1	22	7	1.66	< 10	40	0.04	10	0.15	45
21400E 18325W	201 202	< 5	< 0.2	1.22	6	110	< 0.5	< 2	0.09	< 0.5	3	20	13	1.94	< 10	30	0.04	10	0.21	85
21400E 18350W	201 202	< 5	< 0.2	1.44	4	90	< 0.5	< 2	0.10	< 0.5	4	22	8	2.02	< 10	60	0.04	10	0.30	125
21400E 18375W	201 202	< 5	< 0.2	0.98	4	150	< 0.5	< 2	0.05	< 0.5	1	14	14	1.07	< 10	40	0.03	< 10	0.05	50
21400E 18400W	201 202	< 5	< 0.2	1.22	8	110	< 0.5	< 2	0.07	< 0.5	3	19	7	1.83	< 10	10	0.03	10	0.20	75
21400E 18425W	201 202	< 5	< 0.2	1.72	8	120	< 0.5	< 2	0.11	< 0.5	5	27	16	2.64	< 10	20	0.05	10	0.42	180
21400E 18450W	201 202	< 5	< 0.2	1.21	2	130	< 0.5	< 2	0.06	0.5	1	15	23	1.59	< 10	40	0.04	10	0.09	65
21400E 18475W	201 202	< 5	< 0.2	1.43	8	100	< 0.5	< 2	0.13	< 0.5	4	24	11	2.30	< 10	20	0.05	10	0.35	170
21400E 18500W	201 202	< 5	< 0.2	1.58	6	110	< 0.5	< 2	0.14	< 0.5	4	25	9	2.35	< 10	20	0.04	10	0.35	115
21400E 18525W	201 202	< 5	< 0.2	1.46	8	130	< 0.5	< 2	0.09	< 0.5	4	22	14	2.19	< 10	30	0.05	10	0.28	140
21400E 18550W	201 202	< 5	< 0.2	0.98	6	260	< 0.5	< 2	0.10	< 0.5	1	17	8	1.05	< 10	10	0.05	10	0.10	50
21400E 18575W	201 202	< 5	< 0.2	1.90	14	160	< 0.5	< 2	0.11	< 0.5	4	29	10	2.98	< 10	30	0.06	10	0.38	150
21400E 18600W	201 202	< 5	< 0.2	1.00	6	110	< 0.5	< 2	0.10	< 0.5	2	16	8	1.49	< 10	30	0.05	10	0.17	75
21400E 18625W	201 202	< 5	< 0.2	0.85	4	140	< 0.5	< 2	0.06	< 0.5	< 1	12	10	0.84	< 10	40	0.05	10	0.05	35
21400E 18650W	201 202	< 5	< 0.2	1.17	8	160	< 0.5	< 2	0.07	< 0.5	1	17	11	1.12	< 10	80	0.06	10	0.08	35
21400E 18675W	201 202	< 5	< 0.2	2.20	10	160	< 0.5	< 2	0.14	< 0.5	7	31	15	3.57	< 10	30	0.06	10	0.46	230
21400E 18700W	201 202	745	< 0.2	0.82	4	120	< 0.5	< 2	0.06	< 0.5	1	11	12	1.15	< 10	50	0.03	10	0.05	40
21400E 18725W	201 202	< 5	< 0.2	0.99	4	70	< 0.5	< 2	0.05	< 0.5	1	12	4	1.59	< 10	20	0.02	10	0.12	45
21400E 18750W	201 202	< 5	< 0.2	0.97	8	80	< 0.5	< 2	0.04	< 0.5	< 1	13	4	1.36	< 10	30	0.02	10	0.07	40
21400E 18775W	201 202	< 5	0.2	0.73	6	170	< 0.5	< 2	0.13	0.5	3	11	16	1.16	< 10	110	0.05	< 10	0.08	105
21400E 18800W	201 202	< 5	< 0.2	1.62	10	110	< 0.5	< 2	0.12	< 0.5	11	26	17	3.12	< 10	40	0.06	10	0.34	545
21400E 18825W	201 202	< 5	< 0.2	0.80	8	70	< 0.5	< 2	0.05	< 0.5	3	14	12	1.82	< 10	< 10	0.04	10	0.06	90
21400E 18850W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21400E 18875W	201 202	< 5	< 0.2	0.86	6	490	< 0.5	< 2	0.56	1.0	1	16	12	1.08	< 10	100	0.04	< 10	0.13	45
21400E 18900W	201 202	< 5	0.2	1.47	14	400	< 0.5	< 2	0.45	0.5	8	29	18	2.07	< 10	130	0.07	10	0.32	350

CERTIFICATION: Hart Buchler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Lab #: 2-B
 Total F : 8
 Certificate Date: 12-AUG-97
 Invoice No. : 19735801
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9735801

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21300E 19400W	201 202	3	0.01	22	490	10	< 2	3	37	0.02	< 10	< 10	63	< 10	106
21300E 19425W	201 202	4	0.02	14	410	14	2	3	26	0.03	< 10	< 10	82	< 10	102
21300E 19450W	201 202	6	0.03	16	500	12	< 2	3	49	0.01	< 10	< 10	113	< 10	58
21400E 18000W	201 202	2	0.01	24	1170	8	< 2	< 1	23	0.01	< 10	< 10	109	< 10	126
21400E 18025W	201 202	1	0.01	15	860	8	< 2	< 1	17	< 0.01	< 10	< 10	67	< 10	60
21400E 18050W	201 202	2	0.01	8	700	12	< 2	< 1	16	< 0.01	< 10	< 10	46	< 10	38
21400E 18075W	201 202	1	0.01	16	550	6	< 2	2	13	0.03	< 10	< 10	48	< 10	58
21400E 18100W	201 202	1	0.01	11	490	8	< 2	< 1	11	0.01	< 10	< 10	30	< 10	44
21400E 18125W	201 202	1	< 0.01	8	290	8	< 2	< 1	9	0.02	< 10	< 10	32	< 10	32
21400E 18150W	201 202	< 1	< 0.01	6	390	8	< 2	< 1	8	0.01	< 10	< 10	26	< 10	20
21400E 18175W	201 202	1	0.01	11	510	8	< 2	< 1	11	0.03	< 10	< 10	38	< 10	36
21400E 18200W	201 202	1	0.01	13	390	8	< 2	1	10	0.03	< 10	< 10	39	< 10	48
21400E 18225W	201 202	1	0.01	11	390	8	< 2	< 1	10	0.03	< 10	< 10	45	< 10	36
21400E 18250W	201 202	1	0.01	14	380	8	< 2	1	10	0.03	< 10	< 10	41	< 10	48
21400E 18275W	201 202	1	0.01	15	390	8	< 2	2	13	0.04	< 10	< 10	44	< 10	50
21400E 18300W	201 202	1	< 0.01	6	320	10	< 2	< 1	12	0.03	< 10	< 10	41	< 10	18
21400E 18325W	201 202	1	< 0.01	10	440	8	< 2	< 1	10	0.01	< 10	< 10	36	< 10	34
21400E 18350W	201 202	1	0.01	11	260	10	< 2	1	9	0.05	< 10	< 10	42	< 10	40
21400E 18375W	201 202	1	0.01	5	1130	8	< 2	< 1	10	< 0.01	< 10	< 10	23	< 10	26
21400E 18400W	201 202	< 1	< 0.01	8	300	10	< 2	1	7	0.04	< 10	< 10	41	< 10	28
21400E 18425W	201 202	1	0.01	18	300	10	< 2	3	10	0.05	< 10	< 10	49	< 10	62
21400E 18450W	201 202	1	0.01	9	770	12	< 2	< 1	10	< 0.01	< 10	< 10	36	< 10	28
21400E 18475W	201 202	1	0.01	13	380	10	< 2	1	11	0.04	< 10	< 10	45	< 10	50
21400E 18500W	201 202	1	0.01	14	340	8	< 2	2	11	0.04	< 10	< 10	44	< 10	50
21400E 18525W	201 202	1	0.01	13	510	10	< 2	< 1	10	0.01	< 10	< 10	41	< 10	46
21400E 18550W	201 202	1	0.01	5	670	10	< 2	< 1	14	0.03	< 10	< 10	31	< 10	18
21400E 18575W	201 202	1	0.01	14	230	12	< 2	3	12	0.07	< 10	< 10	63	< 10	50
21400E 18600W	201 202	1	< 0.01	9	420	6	< 2	< 1	11	0.01	< 10	< 10	39	< 10	32
21400E 18625W	201 202	1	0.01	4	920	8	< 2	< 1	10	< 0.01	< 10	< 10	24	< 10	16
21400E 18650W	201 202	1	0.01	7	1110	12	< 2	< 1	13	< 0.01	< 10	< 10	29	< 10	20
21400E 18675W	201 202	1	0.01	19	370	14	< 2	3	12	0.05	< 10	< 10	56	< 10	60
21400E 18700W	201 202	< 1	0.01	5	720	10	< 2	< 1	9	< 0.01	< 10	< 10	27	< 10	16
21400E 18725W	201 202	< 1	< 0.01	4	130	12	< 2	1	6	0.06	< 10	< 10	58	< 10	18
21400E 18750W	201 202	< 1	< 0.01	2	280	14	< 2	< 1	7	0.03	< 10	< 10	37	< 10	10
21400E 18775W	201 202	1	0.01	11	980	8	< 2	< 1	14	< 0.01	< 10	< 10	23	< 10	34
21400E 18800W	201 202	2	0.01	20	560	12	2	3	12	0.06	< 10	< 10	63	< 10	82
21400E 18825W	201 202	1	< 0.01	8	270	8	2	1	8	0.05	< 10	< 10	65	< 10	38
21400E 18850W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21400E 18875W	201 202	1	0.03	13	630	6	< 2	< 1	36	0.01	< 10	< 10	39	< 10	140
21400E 18900W	201 202	3	0.02	23	770	8	4	1	30	0.02	< 10	< 10	130	< 10	126

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
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 British Columbia, Canada V7J 2C1
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

3-A
 Total P : 6
 Certificate No.: 12-AUG-97
 Invoice No.: 19735801
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9735801

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
21400E 18925W	201 202	< 5	< 0.2	1.28	8	230	< 0.5	< 2	0.18	< 0.5	3	20	14	1.81	< 10	110	0.05	10	0.27	80
21400E 18950W	201 202	5	< 0.2	1.54	6	260	< 0.5	< 2	0.14	< 0.5	4	21	19	2.18	< 10	90	0.10	10	0.29	110
21400E 18975W	201 202	< 5	< 0.2	1.66	4	190	< 0.5	< 2	0.08	< 0.5	7	24	24	3.40	< 10	10	0.14	30	0.32	220
21400E 19000W	201 202	< 5	< 0.2	1.86	8	370	0.5	< 2	0.08	< 0.5	16	35	41	4.23	< 10	20	0.20	40	0.52	440
21400E 19025W	201 202	< 5	< 0.2	1.42	14	310	0.5	< 2	0.10	< 0.5	4	22	23	2.54	< 10	20	0.11	30	0.19	210
21400E 19050W	201 202	5	< 0.2	1.64	30	320	0.5	< 2	0.08	< 0.5	6	25	32	3.65	< 10	30	0.13	40	0.23	290
21400E 19075W	201 202	< 5	< 0.2	1.26	40	200	< 0.5	2	0.04	< 0.5	5	20	15	3.33	< 10	20	0.05	10	0.19	155
21400E 19100W	201 202	5	< 0.2	1.79	24	220	< 0.5	< 2	0.04	< 0.5	5	23	15	3.04	< 10	50	0.06	10	0.26	170
21400E 19125W	201 202	< 5	< 0.2	1.01	60	210	< 0.5	< 2	0.05	< 0.5	5	16	13	2.71	< 10	20	0.05	30	0.09	195
21400E 19150W	201 202	< 5	< 0.2	1.96	42	170	0.5	< 2	0.06	< 0.5	8	31	15	3.39	< 10	60	0.06	20	0.24	320
21400E 19175W	201 202	< 5	< 0.2	1.79	22	290	< 0.5	< 2	0.08	< 0.5	5	27	12	2.71	< 10	40	0.07	20	0.25	210
21400E 19200W	201 202	5	< 0.2	1.50	24	390	0.5	< 2	0.10	0.5	14	27	37	3.31	< 10	50	0.13	30	0.29	530
21400E 19225W	201 202	< 5	< 0.2	2.14	12	380	0.5	< 2	0.09	< 0.5	15	34	24	4.38	< 10	40	0.13	30	0.35	805
21400E 19250W	201 202	< 5	< 0.2	1.44	14	310	< 0.5	< 2	0.08	< 0.5	11	22	24	3.56	< 10	10	0.12	30	0.24	290
21400E 19275W	201 202	< 5	< 0.2	2.15	10	220	< 0.5	< 2	0.08	< 0.5	8	32	14	3.39	< 10	10	0.09	20	0.43	325
21400E 19300W	201 202	< 5	< 0.2	1.53	12	290	< 0.5	< 2	0.05	< 0.5	8	23	22	3.85	< 10	20	0.10	30	0.36	280
21400E 19325W	201 202	< 5	< 0.2	1.33	12	400	< 0.5	< 2	0.08	< 0.5	8	21	24	3.08	< 10	30	0.09	30	0.35	250
21400E 19350W	201 202	< 5	< 0.2	1.41	8	350	< 0.5	< 2	0.08	< 0.5	3	20	14	1.92	< 10	70	0.09	10	0.25	100
21400E 19375W	201 202	< 5	< 0.2	1.32	8	300	< 0.5	< 2	0.11	< 0.5	4	20	18	2.31	< 10	50	0.07	10	0.31	145
21400E 19400W	201 202	< 5	< 0.2	1.22	10	360	< 0.5	< 2	0.14	< 0.5	5	20	15	1.96	< 10	40	0.06	10	0.34	155
21400E 19425W	201 202	< 5	0.2	1.72	10	440	< 0.5	< 2	0.08	< 0.5	3	23	22	2.65	< 10	160	0.09	10	0.23	85
21400E 19450W	201 202	< 5	< 0.2	1.36	8	160	< 0.5	< 2	0.07	< 0.5	6	25	13	3.01	< 10	10	0.09	< 10	0.38	225
21500E 18000W	201 202	< 5	0.6	1.73	14	420	0.5	< 2	0.76	8.0	6	37	35	2.09	< 10	60	0.04	10	0.56	310
21500E 18025W	201 202	< 5	0.2	1.68	20	310	< 0.5	< 2	0.62	3.5	6	40	36	2.46	< 10	50	0.04	10	0.57	250
21500E 18050W	201 202	< 5	0.4	1.58	14	290	< 0.5	< 2	0.53	4.5	4	40	47	2.16	< 10	80	0.05	10	0.44	135
21500E 18075W	201 202	< 5	0.6	1.16	10	450	0.5	< 2	1.14	11.5	5	30	41	1.41	< 10	110	0.06	10	0.38	305
21500E 18100W	201 202	< 5	1.0	1.59	10	400	< 0.5	< 2	0.51	3.5	8	31	27	2.10	< 10	90	0.04	10	0.53	545
21500E 18125W	201 202	< 5	< 0.2	1.47	8	110	< 0.5	< 2	0.09	< 0.5	2	23	8	1.65	< 10	50	0.06	10	0.25	65
21500E 18150W	201 202	< 5	< 0.2	1.26	4	150	< 0.5	< 2	0.11	< 0.5	3	20	12	1.97	< 10	20	0.07	10	0.32	105
21500E 18175W	201 202	< 5	< 0.2	1.30	4	100	< 0.5	< 2	0.10	< 0.5	3	22	9	2.08	< 10	10	0.05	10	0.25	100
21500E 18200W	201 202	< 5	< 0.2	1.44	8	110	< 0.5	< 2	0.10	< 0.5	4	24	12	2.25	< 10	30	0.05	10	0.30	150
21500E 18225W	201 202	< 5	< 0.2	1.26	10	80	< 0.5	< 2	0.09	< 0.5	3	22	8	2.21	< 10	20	0.05	10	0.27	130
21500E 18250W	201 202	< 5	< 0.2	1.33	6	90	< 0.5	< 2	0.09	< 0.5	3	23	10	2.48	< 10	20	0.04	10	0.29	155
21500E 18275W	201 202	< 5	< 0.2	1.17	6	70	< 0.5	< 2	0.06	< 0.5	1	19	7	1.84	< 10	30	0.03	10	0.18	60
21500E 18300W	201 202	< 5	< 0.2	1.00	8	70	< 0.5	< 2	0.07	< 0.5	1	18	7	1.69	< 10	30	0.03	10	0.18	55
21500E 18325W	201 202	< 5	< 0.2	1.40	4	100	< 0.5	< 2	0.09	< 0.5	3	23	9	2.15	< 10	30	0.03	10	0.29	85
21500E 18350W	201 202	< 5	< 0.2	1.37	6	90	< 0.5	< 2	0.10	< 0.5	3	21	10	2.03	< 10	10	0.03	10	0.25	85
21500E 18375W	201 202	< 5	< 0.2	1.73	6	140	< 0.5	< 2	0.12	< 0.5	5	26	13	2.48	< 10	20	0.04	10	0.36	170
21500E 18400W	201 202	< 5	< 0.2	1.37	4	90	< 0.5	< 2	0.10	< 0.5	3	23	10	2.13	< 10	20	0.04	10	0.25	105
21500E 18425W	201 202	< 5	< 0.2	1.23	4	90	< 0.5	< 2	0.10	< 0.5	1	22	5	2.27	< 10	20	0.05	10	0.18	70

CERTIFICATION:

Hunt B. ...



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN:RICK DIMENT

:3-B
 Total P. :6
 Certificate No. :12-AUG-97
 Invoice No. :19735801
 P.O. Number :
 Account :OQN

CERTIFICATE OF ANALYSIS

A9735801

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21400E 18925W	201 202	1	0.01	13	570	8	< 2	< 1	14	0.01	< 10	< 10	41	< 10	52
21400E 18950W	201 202	1	0.01	16	690	10	6	1	15	0.01	< 10	< 10	37	< 10	56
21400E 18975W	201 202	2	0.01	20	440	16	< 2	3	12	0.01	< 10	< 10	43	< 10	78
21400E 19000W	201 202	2	0.02	24	650	42	< 2	5	31	0.01	< 10	< 10	38	< 10	120
21400E 19025W	201 202	2	0.01	14	540	22	< 2	2	20	0.01	< 10	< 10	43	< 10	66
21400E 19050W	201 202	4	0.02	20	580	46	2	3	29	< 0.01	< 10	< 10	50	< 10	148
21400E 19075W	201 202	2	0.01	16	360	22	6	2	22	0.01	< 10	< 10	41	< 10	82
21400E 19100W	201 202	3	0.01	17	270	18	2	3	22	0.01	< 10	< 10	44	< 10	76
21400E 19125W	201 202	3	0.01	13	460	26	4	2	23	0.01	< 10	< 10	40	< 10	100
21400E 19150W	201 202	2	0.01	19	450	28	6	4	17	0.02	< 10	< 10	51	< 10	110
21400E 19175W	201 202	3	0.01	15	360	20	2	3	42	0.03	< 10	< 10	57	< 10	78
21400E 19200W	201 202	5	0.02	34	720	20	2	4	67	0.01	< 10	< 10	62	< 10	190
21400E 19225W	201 202	3	0.02	34	510	18	2	4	46	0.01	< 10	< 10	61	< 10	162
21400E 19250W	201 202	3	0.02	34	350	16	2	3	52	0.01	< 10	< 10	45	< 10	182
21400E 19275W	201 202	2	0.01	18	250	12	< 2	3	24	0.01	< 10	< 10	56	< 10	84
21400E 19300W	201 202	4	0.02	28	400	16	2	3	26	< 0.01	< 10	< 10	45	< 10	128
21400E 19325W	201 202	3	0.02	32	460	20	< 2	3	28	< 0.01	< 10	< 10	42	< 10	138
21400E 19350W	201 202	2	0.01	16	550	12	< 2	1	23	< 0.01	< 10	< 10	35	< 10	66
21400E 19375W	201 202	2	0.01	18	580	12	< 2	2	22	0.01	< 10	< 10	38	< 10	78
21400E 19400W	201 202	1	0.01	18	520	10	< 2	1	24	0.01	< 10	< 10	33	< 10	66
21400E 19425W	201 202	3	0.01	18	940	16	2	2	24	< 0.01	< 10	< 10	39	< 10	66
21400E 19450W	201 202	3	0.01	16	240	16	< 2	2	20	0.02	< 10	< 10	44	< 10	76
21500E 18000W	201 202	1	0.05	69	1280	12	< 2	3	47	0.03	< 10	< 10	146	< 10	514
21500E 18025W	201 202	3	0.07	77	1090	12	< 2	2	40	0.04	< 10	< 10	192	< 10	724
21500E 18050W	201 202	3	0.06	64	1730	12	< 2	< 1	38	0.01	< 10	< 10	152	< 10	572
21500E 18075W	201 202	5	0.05	57	2080	8	2	< 1	78	< 0.01	< 10	< 10	158	< 10	384
21500E 18100W	201 202	3	0.04	43	1280	10	2	1	38	0.03	< 10	< 10	93	< 10	342
21500E 18125W	201 202	1	< 0.01	9	530	8	< 2	< 1	13	0.02	< 10	< 10	37	< 10	32
21500E 18150W	201 202	1	0.01	12	400	8	< 2	1	15	0.03	< 10	< 10	33	< 10	48
21500E 18175W	201 202	1	0.01	10	350	8	< 2	1	12	0.03	< 10	< 10	48	< 10	38
21500E 18200W	201 202	1	0.01	11	390	12	< 2	1	11	0.03	< 10	< 10	41	< 10	44
21500E 18225W	201 202	1	0.01	9	400	10	< 2	1	10	0.03	< 10	< 10	48	< 10	38
21500E 18250W	201 202	1	0.01	11	380	10	< 2	1	11	0.03	< 10	< 10	48	< 10	42
21500E 18275W	201 202	1	< 0.01	6	450	10	< 2	1	8	0.03	< 10	< 10	40	< 10	24
21500E 18300W	201 202	< 1	0.01	7	290	8	< 2	< 1	9	0.01	< 10	< 10	36	< 10	24
21500E 18325W	201 202	1	0.01	10	340	10	< 2	1	10	0.03	< 10	< 10	45	< 10	38
21500E 18350W	201 202	< 1	0.01	10	400	12	< 2	2	10	0.04	< 10	< 10	45	< 10	36
21500E 18375W	201 202	1	0.01	14	380	10	< 2	3	12	0.05	< 10	< 10	45	< 10	52
21500E 18400W	201 202	1	0.01	9	430	10	< 2	1	12	0.04	< 10	< 10	46	< 10	34
21500E 18425W	201 202	1	< 0.01	6	390	12	< 2	1	13	0.05	< 10	< 10	58	< 10	24

CERTIFICATION: Hart Buehler



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN:RICK DIMENT

4-A
Total Pt : 6
Certified : 12-AUG-97
Invoice No. : 19735801
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9735801

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
21500E 18450W	201	202	< 5	< 0.2	1.90	8	130	< 0.5	< 2	0.13	< 0.5	5	29	12	2.71	< 10	30	0.06	10	0.41	155
21500E 18475W	201	202	< 5	< 0.2	1.24	6	130	< 0.5	< 2	0.06	< 0.5	< 1	24	11	1.71	< 10	60	0.03	10	0.08	25
21500E 18500W	201	202	< 5	< 0.2	1.38	6	140	< 0.5	< 2	0.11	< 0.5	1	21	13	1.33	< 10	70	0.05	10	0.13	55
21500E 18525W	201	202	< 5	< 0.2	1.59	10	100	< 0.5	< 2	0.09	< 0.5	3	26	7	2.90	< 10	20	0.04	10	0.30	100
21500E 18550W	201	202	< 5	< 0.2	2.15	10	130	< 0.5	< 2	0.09	< 0.5	6	31	12	3.79	< 10	30	0.04	< 10	0.48	185
21500E 18575W	201	202	< 5	< 0.2	1.00	2	150	< 0.5	< 2	0.06	0.5	2	11	27	1.27	< 10	30	0.02	< 10	0.04	80
21500E 18600W	201	202	< 5	< 0.2	1.17	6	60	< 0.5	< 2	0.04	< 0.5	2	17	7	2.14	< 10	10	0.02	< 10	0.18	105
21500E 18625W	201	202	< 5	< 0.2	1.23	8	120	< 0.5	< 2	0.06	< 0.5	10	20	12	2.90	< 10	10	0.03	< 10	0.22	650
21500E 18650W	201	202	< 5	< 0.2	1.03	4	80	< 0.5	< 2	0.03	< 0.5	1	15	5	1.50	< 10	20	0.02	< 10	0.11	50
21500E 18675W	201	202	< 5	< 0.2	1.07	< 2	80	< 0.5	< 2	0.05	< 0.5	1	13	6	1.61	< 10	20	0.03	10	0.11	75
21500E 18700W	201	202	< 5	< 0.2	1.75	6	110	< 0.5	< 2	0.09	< 0.5	3	28	11	2.98	< 10	50	0.04	10	0.25	100
21500E 18725W	201	202	< 5	< 0.2	1.75	10	120	< 0.5	< 2	0.11	< 0.5	3	26	7	2.90	< 10	60	0.05	10	0.30	100
21500E 18750W	201	202	< 5	< 0.2	1.02	2	150	< 0.5	< 2	0.08	< 0.5	1	15	15	1.26	< 10	80	0.04	10	0.09	45
21500E 18775W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 18800W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 18825W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 18850W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 18875W	201	202	< 5	2.2	1.13	26	460	0.5	< 2	0.14	1.5	3	40	104	2.96	< 10	1910	0.11	10	0.15	155
21500E 18900W	201	202	20	2.4	0.93	26	360	0.5	< 2	1.46	16.0	7	36	85	1.90	< 10	2370	0.09	20	0.18	280
21500E 18925W	201	202	10	1.6	1.41	20	350	< 0.5	< 2	0.68	6.5	8	32	32	2.08	< 10	1490	0.10	20	0.32	445
21500E 18950W	201	202	< 5	0.8	0.99	14	320	< 0.5	< 2	0.38	2.5	3	25	28	1.67	< 10	530	0.08	10	0.20	170
21500E 18975W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 19000W	201	202	< 5	0.4	1.20	8	180	< 0.5	< 2	0.19	< 0.5	5	24	16	2.12	< 10	150	0.07	10	0.33	180
21500E 19025W	201	202	< 5	< 0.2	0.95	4	360	< 0.5	< 2	0.69	0.5	3	19	14	1.25	< 10	150	0.06	< 10	0.23	100
21500E 19050W	201	202	10	0.6	1.40	20	400	< 0.5	< 2	0.18	< 0.5	4	22	15	2.21	< 10	300	0.07	10	0.31	160
21500E 19075W	201	202	< 5	0.4	1.14	6	250	< 0.5	< 2	0.10	< 0.5	2	17	12	1.46	< 10	110	0.05	10	0.25	55
21500E 19100W	201	202	< 5	< 0.2	1.53	14	150	< 0.5	< 2	0.05	< 0.5	4	22	10	2.85	< 10	20	0.04	10	0.23	175
21500E 19125W	201	202	< 5	< 0.2	1.22	10	140	< 0.5	< 2	0.06	< 0.5	2	18	6	2.38	< 10	20	0.04	10	0.20	90
21500E 19150W	201	202	< 5	< 0.2	2.03	18	220	0.5	< 2	0.11	< 0.5	8	28	22	3.01	< 10	50	0.07	10	0.41	245
21500E 19175W	201	202	< 5	< 0.2	1.84	14	250	0.5	< 2	0.08	< 0.5	11	27	18	3.55	< 10	70	0.08	20	0.26	480
21500E 19200W	201	202	< 5	< 0.2	1.10	24	260	0.5	< 2	0.15	< 0.5	13	25	27	3.21	< 10	30	0.10	30	0.28	500
21500E 19225W	201	202	< 5	< 0.2	1.54	26	240	< 0.5	< 2	0.07	< 0.5	9	22	18	3.51	< 10	30	0.08	30	0.21	360
21500E 19250W	201	202	< 5	< 0.2	1.64	16	220	< 0.5	< 2	0.10	< 0.5	9	26	14	3.58	< 10	20	0.11	20	0.30	425
21500E 19275W	201	202	< 5	< 0.2	1.45	10	370	< 0.5	< 2	0.11	< 0.5	2	20	11	1.92	< 10	60	0.05	10	0.22	80
21500E 19300W	201	202	< 5	< 0.2	1.43	10	240	< 0.5	< 2	0.11	< 0.5	6	22	19	2.59	< 10	40	0.07	20	0.35	190
21500E 19325W	201	202	< 5	< 0.2	1.49	12	460	< 0.5	< 2	0.11	< 0.5	5	19	15	2.71	< 10	20	0.08	30	0.19	145
21500E 19350W	201	202	< 5	< 0.2	1.22	14	390	< 0.5	< 2	0.11	< 0.5	8	21	26	2.66	< 10	40	0.08	30	0.34	215
21500E 19375W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 19400W	201	202	< 5	< 0.2	0.97	10	340	< 0.5	< 2	0.16	< 0.5	5	19	17	2.01	< 10	40	0.05	10	0.32	155
21500E 19425W	201	202	< 5	< 0.2	1.22	14	270	< 0.5	< 2	0.15	< 0.5	5	21	18	2.31	< 10	50	0.05	10	0.39	160

CERTIFICATION:

Hart Buchler



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

:4-B
 Total P :6
 Certificate No.: 12-AUG-97
 Invoice No.: I9735801
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9735801

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21500E 18450N	201 202	1	0.01	15	280	10	< 2	3	14	0.07	< 10	< 10	56	< 10	52
21500E 18475N	201 202	< 1	< 0.01	2	600	14	< 2	< 1	11	0.01	< 10	< 10	38	< 10	10
21500E 18500N	201 202	1	0.01	7	460	14	< 2	< 1	15	0.02	< 10	< 10	42	< 10	24
21500E 18525N	201 202	1	< 0.01	10	250	12	< 2	3	11	0.06	< 10	< 10	61	< 10	38
21500E 18550N	201 202	1	0.01	17	290	10	2	3	11	0.05	< 10	< 10	54	< 10	66
21500E 18575N	201 202	1	0.01	12	790	10	< 2	< 1	11	< 0.01	< 10	< 10	30	< 10	26
21500E 18600N	201 202	1	< 0.01	8	220	10	< 2	1	6	0.04	< 10	< 10	45	< 10	32
21500E 18625N	201 202	1	0.01	11	500	8	< 2	1	7	0.03	< 10	< 10	50	< 10	64
21500E 18650N	201 202	1	< 0.01	4	390	12	< 2	< 1	5	0.04	< 10	< 10	38	< 10	18
21500E 18675N	201 202	1	0.01	5	390	10	< 2	< 1	8	0.01	< 10	< 10	39	< 10	20
21500E 18700N	201 202	1	0.01	8	590	12	< 2	1	10	0.03	< 10	< 10	57	< 10	34
21500E 18725N	201 202	1	0.01	9	500	14	< 2	1	13	0.05	< 10	< 10	72	< 10	32
21500E 18750N	201 202	1	0.01	9	1010	8	< 2	< 1	13	0.01	< 10	< 10	24	< 10	22
21500E 18775N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 18800N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 18825N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 18850N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 18875N	201 202	12	0.01	25	3510	12	10	4	212	0.01	< 10	10	271	< 10	102
21500E 18900N	201 202	28	0.07	138	2100	8	18	3	102	0.01	< 10	10	415	< 10	836
21500E 18925N	201 202	7	0.04	46	1330	10	2	4	58	0.03	< 10	< 10	250	< 10	334
21500E 18950N	201 202	6	0.03	26	1220	12	6	2	42	0.02	< 10	< 10	166	< 10	176
21500E 18975N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 19000N	201 202	3	0.01	18	900	8	2	1	18	0.03	< 10	< 10	71	< 10	74
21500E 19025N	201 202	1	0.01	12	1160	6	< 2	< 1	49	0.01	< 10	< 10	27	< 10	48
21500E 19050N	201 202	3	0.01	18	810	18	2	2	22	< 0.01	< 10	< 10	49	< 10	76
21500E 19075N	201 202	< 1	0.01	11	670	14	2	1	14	< 0.01	< 10	< 10	20	< 10	40
21500E 19100N	201 202	2	0.01	13	420	16	2	3	12	0.01	< 10	< 10	47	< 10	74
21500E 19125N	201 202	1	0.01	8	310	14	2	1	15	0.01	< 10	< 10	46	< 10	42
21500E 19150N	201 202	2	0.01	21	340	14	2	4	17	0.03	< 10	< 10	48	< 10	76
21500E 19175N	201 202	2	0.01	19	490	18	2	3	28	0.01	< 10	< 10	44	< 10	86
21500E 19200N	201 202	1	0.01	32	610	22	2	4	40	0.03	< 10	< 10	38	< 10	130
21500E 19225N	201 202	3	0.01	22	450	22	2	3	37	0.01	< 10	< 10	48	< 10	120
21500E 19250N	201 202	2	0.01	19	490	14	2	3	26	0.01	< 10	< 10	51	< 10	100
21500E 19275N	201 202	1	< 0.01	11	540	10	< 2	1	15	0.01	< 10	< 10	37	< 10	36
21500E 19300N	201 202	3	0.01	18	370	14	< 2	3	29	0.02	< 10	< 10	44	< 10	78
21500E 19325N	201 202	3	0.01	17	310	14	< 2	2	37	0.01	< 10	< 10	50	< 10	90
21500E 19350N	201 202	2	0.01	27	400	14	2	3	42	0.01	< 10	< 10	41	< 10	126
21500E 19375N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21500E 19400N	201 202	1	0.01	18	450	10	< 2	2	29	0.03	< 10	< 10	35	< 10	68
21500E 19425N	201 202	1	0.01	19	510	10	< 2	3	21	0.03	< 10	< 10	38	< 10	72

CERTIFICATION:

Hart Bichler



Chemex Labs Ltd.

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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments : ATTN: RICK DIMENT

5-A
Total Pt : 6
Certificate No : 12-AUG-97
Invoice No. : 19735801
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9735801

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
21500E 19450W	201	202	< 5	< 0.2	0.89	10	170	< 0.5	< 2	0.10	< 0.5	3	15	10	1.76	< 10	50	0.03	< 10	0.26	90
21600E 18000W	201	202	< 5	0.2	1.56	18	230	< 0.5	< 2	0.21	2.5	5	28	18	2.52	< 10	30	0.03	10	0.41	190
21600E 18025W	201	202	< 5	0.4	0.67	6	100	< 0.5	< 2	0.09	0.5	< 1	19	14	0.91	< 10	40	0.02	10	0.05	35
21600E 18050W	201	202	< 5	< 0.2	0.93	14	70	< 0.5	< 2	0.11	< 0.5	3	24	10	2.52	< 10	10	0.02	< 10	0.24	170
21600E 18075W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18100W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18125W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18150W	201	202	< 5	3.2	1.50	14	380	0.5	< 2	0.56	12.0	5	29	65	1.79	< 10	250	0.07	10	0.31	315
21600E 18175W	201	202	< 5	< 0.2	1.44	12	180	< 0.5	< 2	0.18	0.5	3	23	15	1.86	< 10	50	0.05	10	0.32	90
21600E 18200W	201	202	< 5	< 0.2	1.17	6	90	< 0.5	< 2	0.09	< 0.5	2	19	11	1.72	< 10	30	0.05	10	0.21	70
21600E 18225W	201	202	< 5	< 0.2	1.28	8	80	< 0.5	< 2	0.08	< 0.5	3	20	10	2.14	< 10	30	0.04	10	0.27	110
21600E 18250W	201	202	< 5	< 0.2	1.37	10	100	< 0.5	< 2	0.12	< 0.5	4	22	9	2.00	< 10	30	0.05	10	0.29	125
21600E 18275W	201	202	< 5	< 0.2	1.29	8	100	< 0.5	< 2	0.09	< 0.5	4	21	11	2.16	< 10	40	0.04	10	0.25	165
21600E 18300W	201	202	< 5	< 0.2	1.50	14	110	< 0.5	< 2	0.10	< 0.5	4	24	11	2.45	< 10	50	0.05	10	0.33	150
21600E 18325W	201	202	< 5	< 0.2	1.24	10	80	< 0.5	< 2	0.09	< 0.5	3	21	8	2.13	< 10	20	0.04	10	0.28	125
21600E 18350W	201	202	< 5	< 0.2	1.17	8	100	< 0.5	< 2	0.07	< 0.5	1	18	6	1.83	< 10	10	0.04	10	0.16	70
21600E 18375W	201	202	< 5	< 0.2	1.30	14	90	< 0.5	< 2	0.07	< 0.5	2	21	9	2.24	< 10	50	0.03	10	0.23	75
21600E 18400W	201	202	< 5	< 0.2	1.67	14	130	< 0.5	< 2	0.08	< 0.5	5	24	14	2.57	< 10	30	0.03	10	0.38	135
21600E 18425W	201	202	< 5	< 0.2	1.70	14	110	< 0.5	< 2	0.06	< 0.5	5	27	10	4.08	< 10	30	0.03	< 10	0.37	170
21600E 18450W	201	202	< 5	< 0.2	1.20	10	80	< 0.5	< 2	0.06	< 0.5	5	21	11	2.77	< 10	20	0.05	10	0.31	185
21600E 18475W	201	202	< 5	< 0.2	1.64	8	140	< 0.5	< 2	0.09	< 0.5	5	27	9	3.02	< 10	30	0.05	10	0.32	270
21600E 18500W	201	202	< 5	< 0.2	1.05	8	110	< 0.5	< 2	0.08	< 0.5	1	16	6	1.73	< 10	< 10	0.04	10	0.14	80
21600E 18525W	201	202	< 5	< 0.2	1.33	10	110	< 0.5	< 2	0.09	< 0.5	4	22	11	2.53	< 10	30	0.06	10	0.25	160
21600E 18550W	201	202	< 5	< 0.2	1.05	8	100	< 0.5	< 2	0.09	< 0.5	2	19	6	2.42	< 10	10	0.04	10	0.16	200
21600E 18575W	201	202	< 5	< 0.2	1.52	10	170	< 0.5	< 2	0.08	< 0.5	3	21	16	2.29	< 10	10	0.05	10	0.24	115
21600E 18600W	201	202	< 5	< 0.2	0.81	10	170	< 0.5	< 2	0.11	< 0.5	1	15	15	1.11	< 10	30	0.04	10	0.05	130
21600E 18625W	201	202	< 5	< 0.2	1.76	14	180	< 0.5	< 2	0.11	< 0.5	4	27	7	3.30	< 10	40	0.05	10	0.32	170
21600E 18650W	201	202	< 5	< 0.2	0.85	12	90	< 0.5	< 2	0.06	< 0.5	2	17	10	2.03	< 10	10	0.05	10	0.07	105
21600E 18675W	201	202	< 25	< 0.2	0.35	12	100	< 0.5	< 2	0.09	< 0.5	1	8	9	0.69	< 10	60	0.02	< 10	0.02	225
21600E 18700W	201	202	< 5	< 0.2	1.35	12	190	< 0.5	< 2	0.06	< 0.5	4	24	13	3.24	< 10	30	0.05	10	0.17	150
21600E 18725W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18750W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18775W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18800W	201	202	< 5	2.2	0.57	14	210	0.5	< 2	0.12	1.5	1	31	71	1.62	< 10	1450	0.08	20	0.05	60
21600E 18825W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18850W	201	202	< 10	1.8	0.75	36	250	0.5	< 2	0.66	6.5	7	38	77	2.31	< 10	1600	0.09	20	0.15	330
21600E 18875W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18900W	201	202	< 5	1.6	0.88	14	200	< 0.5	< 2	0.36	1.0	3	31	26	1.59	< 10	820	0.06	10	0.22	85
21600E 18925W	201	202	< 5	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
21600E 18950W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION:

[Signature]



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
 212 Brookbank Ave. North Vancouver
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 PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Total F : 5-B
 Certific. : 16
 Invoice No. : 12-AUG-97
 P.O. Number : 19735801
 Account : OQN

CERTIFICATE OF ANALYSIS

A9735801

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21500E 19450W	201 202	1	0.01	12	390	8	< 2	< 1	13	0.01	< 10	< 10	29	< 10	44
21600E 18000W	201 202	3	0.04	54	740	10	< 2	1	17	0.02	< 10	< 10	189	< 10	432
21600E 18025W	201 202	1	0.01	18	680	6	< 2	< 1	12	< 0.01	< 10	< 10	60	< 10	90
21600E 18050W	201 202	1	0.02	25	440	12	< 2	< 1	8	0.01	< 10	< 10	230	< 10	210
21600E 18075W	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18100W	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18125W	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18150W	201 202	7	0.04	53	3510	12	2	< 1	45	< 0.01	< 10	< 10	132	< 10	336
21600E 18175W	201 202	2	0.01	16	590	8	< 2	1	15	0.03	< 10	< 10	52	< 10	86
21600E 18200W	201 202	1	0.01	8	360	8	< 2	< 1	11	0.02	< 10	< 10	47	< 10	36
21600E 18225W	201 202	1	0.01	10	290	8	< 2	1	9	0.03	< 10	< 10	43	< 10	40
21600E 18250W	201 202	1	0.01	11	350	8	< 2	1	10	0.03	< 10	< 10	41	< 10	42
21600E 18275W	201 202	1	0.01	11	360	6	< 2	< 1	10	0.03	< 10	< 10	47	< 10	36
21600E 18300W	201 202	1	0.01	12	370	8	< 2	1	12	0.04	< 10	< 10	52	< 10	50
21600E 18325W	201 202	1	0.01	10	300	8	< 2	1	10	0.04	< 10	< 10	46	< 10	42
21600E 18350W	201 202	1	< 0.01	6	320	12	< 2	< 1	11	0.04	< 10	< 10	47	< 10	26
21600E 18375W	201 202	< 1	0.01	8	390	10	< 2	< 1	9	0.02	< 10	< 10	43	< 10	30
21600E 18400W	201 202	1	0.01	16	270	10	< 2	2	9	0.03	< 10	< 10	42	< 10	54
21600E 18425W	201 202	1	0.01	14	300	10	< 2	2	7	0.04	< 10	< 10	55	< 10	56
21600E 18450W	201 202	1	0.01	13	350	8	< 2	1	10	0.03	< 10	< 10	42	< 10	54
21600E 18475W	201 202	1	0.01	10	400	10	< 2	1	12	0.05	< 10	< 10	61	< 10	48
21600E 18500W	201 202	1	< 0.01	4	250	10	< 2	1	10	0.06	< 10	< 10	52	< 10	22
21600E 18525W	201 202	1	0.01	13	590	8	< 2	1	14	0.05	< 10	< 10	53	< 10	50
21600E 18550W	201 202	1	0.01	6	370	10	< 2	< 1	11	0.03	< 10	< 10	69	< 10	36
21600E 18575W	201 202	1	0.01	10	580	12	< 2	< 1	11	0.03	< 10	< 10	48	< 10	40
21600E 18600W	201 202	1	0.01	8	430	8	< 2	< 1	15	< 0.01	< 10	< 10	32	< 10	44
21600E 18625W	201 202	1	0.01	10	390	14	< 2	3	15	0.07	< 10	< 10	68	< 10	40
21600E 18650W	201 202	1	0.01	7	360	8	< 2	< 1	12	0.04	< 10	< 10	87	< 10	32
21600E 18675W	201 202	< 1	< 0.01	4	230	4	< 2	< 1	11	< 0.01	< 10	< 10	19	< 10	24
21600E 18700W	201 202	1	0.01	15	550	8	< 2	1	15	0.04	< 10	< 10	68	< 10	50
21600E 18725W	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18750W	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18775W	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18800W	201 202	18	0.02	43	1530	16	8	< 1	60	< 0.01	< 10	10	210	< 10	138
21600E 18825W	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18850W	201 202	61	0.07	162	1330	12	20	3	79	< 0.01	< 10	< 10	399	< 10	718
21600E 18875W	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 18900W	201 202	7	0.03	42	1420	8	26	2	32	0.01	< 10	< 10	108	< 10	270
21600E 18925W	201 202	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
21600E 18950W	---	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia Canada V7J 2C1
PHONE: 604-884-0221 FAX: 604-884-0218

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN:RICK DIMENT

6-A
Total P: :8
Certificate No.: 12-AUG-97
Invoice No.: I9735801
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9735801

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	
	FA+AA		NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	
21600E 18975N	--	--																				
21600E 19000N	201	202	< 5	1.0	1.34	8	270	< 0.5	< 2	0.41	2.5	4	38	27	1.46	< 10	860	0.06	10	0.34	130	
21600E 19025N	201	202	< 5	0.6	1.51	8	300	< 0.5	< 2	0.45	1.5	4	36	22	1.68	< 10	530	0.06	10	0.34	185	
21600E 19050N	201	202	< 5	0.2	1.36	6	210	< 0.5	< 2	0.20	0.5	3	28	11	1.61	< 10	190	0.07	10	0.34	95	
21600E 19075N	201	202	< 5	0.2	1.49	2	340	< 0.5	< 2	0.20	0.5	3	25	13	1.61	< 10	180	0.06	10	0.30	95	
21600E 19100N	201	202	< 5	< 0.2	1.31	8	250	< 0.5	< 2	0.19	< 0.5	3	21	8	1.55	< 10	120	0.06	10	0.27	75	
21600E 19125N	201	202	< 5	0.4	1.43	8	500	< 0.5	< 2	0.20	< 0.5	3	20	12	1.58	< 10	180	0.08	10	0.28	110	
21600E 19150N	201	202	< 5	< 0.2	1.90	14	180	0.5	< 2	0.07	< 0.5	5	23	18	2.84	< 10	30	0.08	20	0.26	225	
21600E 19175N	201	202	< 5	< 0.2	2.23	14	180	< 0.5	< 2	0.05	< 0.5	7	31	23	4.10	< 10	10	0.09	30	0.60	245	
21600E 19200N	201	202	< 5	< 0.2	1.77	8	260	< 0.5	< 2	0.16	< 0.5	5	23	15	2.28	< 10	20	0.06	10	0.43	155	
21600E 19225N	201	202	< 5	< 0.2	2.22	10	140	< 0.5	< 2	0.09	< 0.5	9	27	14	3.07	< 10	80	0.05	10	0.40	385	
21600E 19250N	201	202	< 5	< 0.2	1.36	8	210	< 0.5	< 2	0.06	< 0.5	3	19	12	2.30	< 10	20	0.04	10	0.22	130	
21600E 19275N	201	202	< 5	1.0	1.31	20	760	0.5	< 2	0.23	0.5	4	15	29	2.19	< 10	300	0.09	30	0.14	130	
21600E 19300N	201	202	< 5	0.4	1.29	10	630	< 0.5	< 2	0.13	0.5	9	18	25	2.44	< 10	160	0.06	20	0.25	485	
21600E 19325N	201	202	< 5	0.2	1.29	8	650	< 0.5	< 2	0.12	0.5	6	19	20	2.09	< 10	150	0.07	10	0.23	175	
21600E 19350N	201	202	< 5	< 0.2	1.40	14	350	< 0.5	< 2	0.12	< 0.5	4	22	16	2.36	< 10	130	0.06	10	0.30	125	
21600E 19375N	201	202	< 5	< 0.2	1.64	10	180	< 0.5	< 2	0.14	< 0.5	4	23	12	2.34	< 10	40	0.04	10	0.32	115	
21600E 19400N	201	202	< 5	< 0.2	1.37	6	310	< 0.5	< 2	0.11	< 0.5	1	21	14	1.86	< 10	100	0.06	10	0.20	75	
21600E 19425N	201	202	< 5	< 0.2	1.55	8	160	< 0.5	< 2	0.09	< 0.5	3	24	12	2.59	< 10	40	0.06	10	0.25	145	
21600E 19450N	201	202	< 5	< 0.2	1.93	8	250	< 0.5	< 2	0.05	< 0.5	1	27	28	3.57	< 10	240	0.09	< 10	0.18	120	

CERTIFICATION: Hart Bichler



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

:6-B
 Total P: :6
 Certific. :e: 12-AUG-97
 Invoice No. : 19735801
 P.O. Number :
 Account : OQN

Project :
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS

A9735801

SAMPLE	PREP CODE		Mo	Na	NI	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21600E 18975N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21600E 19000N	201	202	3	0.04	41	1040	6	8	3	34	0.03	< 10	< 10	195	< 10	388
21600E 19025N	201	202	4	0.03	27	820	6	4	3	36	0.04	< 10	< 10	204	< 10	204
21600E 19050N	201	202	1	0.01	15	640	8	< 2	1	20	0.04	< 10	< 10	87	< 10	76
21600E 19075N	201	202	1	0.01	17	770	10	< 2	1	23	0.03	< 10	< 10	59	< 10	70
21600E 19100N	201	202	1	0.01	12	500	8	2	1	22	0.03	< 10	< 10	43	< 10	48
21600E 19125N	201	202	1	0.01	16	510	14	2	2	33	0.01	< 10	< 10	39	< 10	56
21600E 19150N	201	202	2	0.01	14	320	12	< 2	3	19	0.01	< 10	< 10	52	< 10	76
21600E 19175N	201	202	3	0.02	31	350	16	< 2	3	33	< 0.01	< 10	< 10	48	< 10	128
21600E 19200N	201	202	1	0.01	20	390	8	< 2	3	17	0.03	< 10	< 10	35	< 10	66
21600E 19225N	201	202	1	0.01	19	330	10	2	3	12	0.02	< 10	< 10	39	< 10	60
21600E 19250N	201	202	1	0.01	10	370	10	< 2	1	11	0.01	< 10	< 10	39	< 10	36
21600E 19275N	201	202	4	0.01	25	980	36	2	4	62	< 0.01	< 10	< 10	33	< 10	88
21600E 19300N	201	202	3	0.01	19	680	24	2	3	36	< 0.01	< 10	< 10	36	< 10	74
21600E 19325N	201	202	3	0.01	19	610	18	2	3	35	< 0.01	< 10	< 10	34	< 10	74
21600E 19350N	201	202	3	0.01	15	480	14	< 2	2	37	0.01	< 10	< 10	45	< 10	58
21600E 19375N	201	202	1	0.01	12	470	8	2	2	19	0.04	< 10	< 10	40	< 10	44
21600E 19400N	201	202	1	0.01	11	480	10	< 2	< 1	25	0.01	< 10	< 10	39	< 10	32
21600E 19425N	201	202	1	0.01	11	330	12	2	2	18	0.03	< 10	< 10	43	< 10	52
21600E 19450N	201	202	3	0.01	13	1020	14	< 2	1	29	< 0.01	< 10	< 10	33	< 10	62

CERTIFICATION:

Hart Bickler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN:RICK DIMENT

Page N : 1-A
 Total P : 9
 Certificate Date: 25-SEP-97
 Invoice No. : 19740536
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE	Au ppb fusion FA+AA wt. gm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
20750E 18000N	201 202	< 5 30.00	0.4	1.74	8	240	0.5	< 2	0.10	1.5	5	36	23	2.28	< 10	40	0.05	10	0.33
20750E 18025N	201 202	< 5 30.00	< 0.2	1.35	8	180	< 0.5	< 2	0.09	0.5	6	25	14	2.07	< 10	30	0.04	10	0.31
20750E 18050N	201 202	< 5 30.00	0.2	1.64	6	190	< 0.5	< 2	0.14	0.5	5	31	13	2.29	< 10	30	0.05	10	0.33
20750E 18075N	201 202	< 5 30.00	0.8	1.91	8	370	0.5	< 2	0.33	2.0	12	40	18	2.78	< 10	40	0.06	10	0.37
20750E 18100N	201 202	< 5 30.00	2.0	2.05	6	340	0.5	< 2	0.47	0.5	9	68	26	2.56	< 10	30	0.08	10	0.36
20750E 18125N	201 202	< 5 30.00	1.6	1.97	16	230	0.5	< 2	0.31	1.0	9	56	31	2.88	< 10	120	0.07	20	0.45
20750E 18150N	201 202	< 5 30.00	4.6	1.46	6	380	0.5	< 2	0.72	4.0	9	43	36	2.15	< 10	240	0.08	10	0.22
20750E 18175N	201 202	< 5 30.00	1.2	1.46	8	230	< 0.5	< 2	0.33	1.5	5	39	25	2.24	< 10	90	0.05	10	0.28
20750E 18200N	201 202	< 5 30.00	0.8	1.92	10	280	0.5	< 2	0.50	< 0.5	10	40	30	2.76	< 10	230	0.06	10	0.46
20750E 18225N	201 202	< 5 30.00	1.2	1.61	6	230	0.5	< 2	0.29	2.0	5	43	40	2.26	< 10	150	0.06	10	0.32
20750E 18250N	201 202	< 5 30.00	0.6	1.66	8	430	0.5	< 2	0.35	2.5	5	59	45	2.46	< 10	270	0.07	20	0.27
20750E 18275N	201 202	5 30.00	1.6	1.69	12	650	0.5	< 2	0.44	2.0	6	55	42	2.72	< 10	300	0.05	20	0.30
20750E 18300N	201 202	< 5 30.00	2.8	1.52	4	470	0.5	< 2	0.14	3.5	4	43	34	2.09	< 10	190	0.06	10	0.18
20750E 18325N	201 202	< 5 30.00	1.4	1.88	10	520	0.5	< 2	0.38	3.0	7	58	31	3.11	< 10	150	0.06	20	0.27
20750E 18350N	201 202	< 5 30.00	2.0	2.25	12	350	0.5	< 2	0.21	2.5	6	89	35	2.90	< 10	150	0.07	10	0.35
20750E 18375N	201 202	< 5 30.00	0.6	2.50	16	480	0.5	< 2	0.55	2.5	11	71	64	3.29	< 10	180	0.07	30	0.39
20750E 18400N	201 202	< 5 30.00	0.6	1.98	22	180	0.5	< 2	0.65	1.5	8	104	58	2.75	< 10	70	0.09	20	0.34
20750E 18425N	201 202	< 5 30.00	1.8	2.57	12	200	0.5	< 2	0.20	1.5	9	47	22	3.04	< 10	100	0.06	10	0.50
20750E 18450N	201 202	< 5 30.00	2.4	2.40	10	200	0.5	< 2	0.24	1.5	7	44	12	3.52	< 10	50	0.05	10	0.15
20750E 18475N	201 202	< 5 30.00	2.8	1.74	14	490	1.0	< 2	1.49	3.0	8	97	53	2.78	< 10	290	0.08	30	0.17
20750E 18500N	201 202	< 5 30.00	1.0	0.70	6	140	< 0.5	< 2	0.35	0.5	3	54	31	1.44	< 10	70	0.05	10	0.06
20750E 18525N	201 202	< 5 30.00	3.0	0.70	12	210	0.5	< 2	0.74	2.5	5	74	92	1.88	< 10	430	0.07	30	0.06
20750E 18550N	201 202	< 5 30.00	1.6	1.32	22	400	1.5	< 2	2.76	6.5	8	185	153	2.28	< 10	460	0.21	40	0.10
20750E 18575N	201 202	< 5 30.00	2.0	1.77	16	380	0.5	< 2	1.06	1.5	7	82	52	3.08	< 10	180	0.11	20	0.22
20750E 18600N	201 202	< 5 30.00	5.0	0.90	18	380	1.0	< 2	2.52	5.5	5	148	153	1.93	< 10	740	0.13	30	0.11
20750E 18625N	201 202	< 5 15.00	2.8	0.72	18	270	0.5	< 2	1.16	2.5	4	88	92	1.94	< 10	710	0.09	30	0.07
20750E 18650N	201 202	< 5 30.00	7.4	1.30	28	380	1.5	< 2	3.57	9.0	8	97	155	2.28	< 10	1490	0.12	40	0.48
20750E 18675N	201 202	< 5 15.00	2.6	0.97	28	260	1.0	< 2	2.60	9.5	10	61	101	2.44	< 10	660	0.10	30	0.50
20750E 18700N	201 202	< 5 15.00	0.8	0.57	6	160	< 0.5	< 2	2.12	6.5	5	23	39	0.98	< 10	290	0.06	10	0.34
20750E 18725N	201 202	< 5 15.00	2.6	0.74	12	230	0.5	< 2	2.73	9.0	7	41	89	1.32	< 10	940	0.08	10	0.42
20750E 18750N	201 202	15 15.00	0.2	0.58	32	290	0.5	< 2	1.94	0.5	7	10	29	1.65	< 10	190	0.09	10	0.30
20750E 18775N	201 202	< 5 15.00	< 0.2	0.29	106	130	< 0.5	< 2	1.61	< 0.5	6	5	21	2.05	< 10	250	0.10	< 10	0.29
20750E 18800N	201 202	< 5 30.00	< 0.2	1.06	18	340	0.5	< 2	0.83	< 0.5	10	12	25	2.39	< 10	160	0.13	10	0.31
20750E 18825N	201 202	< 5 15.00	0.4	0.40	< 2	320	< 0.5	< 2	4.17	0.5	4	6	25	0.71	< 10	270	0.03	< 10	0.46
20750E 18850N	201 202	55 30.00	1.0	0.50	50	230	0.5	< 2	1.78	0.5	9	10	34	1.97	< 10	470	0.09	10	0.38
20750E 18875N	201 202	< 5 15.00	0.2	0.33	< 2	250	< 0.5	< 2	3.51	0.5	3	5	24	0.53	< 10	190	0.03	< 10	0.51
20750E 18900N	201 202	< 5 10.00	0.6	0.41	2	260	< 0.5	< 2	3.35	0.5	5	7	24	0.77	< 10	250	0.04	< 10	0.50
20750E 18925N	201 202	100 15.00	1.6	0.47	40	280	0.5	< 2	2.13	0.5	6	9	32	1.30	< 10	470	0.07	10	0.23
20750E 18950N	201 202	< 5 15.00	< 0.2	0.20	< 2	110	< 0.5	< 2	2.65	0.5	1	3	11	0.30	< 10	100	0.02	< 10	0.42
20750E 18975N	201 202	25 15.00	0.6	0.38	18	210	0.5	< 2	2.60	< 0.5	5	7	33	1.32	< 10	210	0.06	< 10	0.38

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Page # : 1-B
Total P : 9
Certificate Date : 25-SEP-97
Invoice No. : 19740536
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9740536

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
20750E 18000N	201	202	185	< 1	< 0.01	30	2320	10	< 2	< 1	12	0.02	< 10	< 10	100	< 10	160
20750E 18025N	201	202	185	< 1	< 0.01	14	1060	6	< 2	1	11	0.03	< 10	< 10	57	< 10	58
20750E 18050N	201	202	160	< 1	< 0.01	15	1030	10	< 2	3	14	0.05	< 10	< 10	72	< 10	86
20750E 18075N	201	202	880	1	< 0.01	39	1320	12	< 2	3	22	0.05	< 10	< 10	113	< 10	362
20750E 18100N	201	202	395	3	< 0.01	66	1570	10	< 2	3	29	0.04	< 10	< 10	180	< 10	514
20750E 18125N	201	202	250	3	< 0.01	60	1650	12	< 2	3	22	0.04	< 10	< 10	147	< 10	350
20750E 18150N	201	202	815	2	< 0.01	37	2770	8	< 2	1	33	0.02	< 10	< 10	125	< 10	244
20750E 18175N	201	202	150	1	< 0.01	29	1860	10	< 2	2	20	0.03	< 10	< 10	99	< 10	182
20750E 18200N	201	202	310	1	< 0.01	48	1540	10	2	4	29	0.05	< 10	< 10	92	< 10	158
20750E 18225N	201	202	185	1	< 0.01	37	2840	8	< 2	< 1	23	0.01	< 10	< 10	103	< 10	190
20750E 18250N	201	202	140	1	< 0.01	22	4340	10	< 2	1	63	0.02	< 10	< 10	155	< 10	100
20750E 18275N	201	202	210	1	< 0.01	35	6050	8	8	3	122	0.02	< 10	< 10	172	< 10	202
20750E 18300N	201	202	100	1	< 0.01	17	3540	12	< 2	< 1	45	0.01	< 10	< 10	110	< 10	76
20750E 18325N	201	202	240	1	< 0.01	26	5910	10	2	1	90	0.02	< 10	< 10	182	< 10	190
20750E 18350N	201	202	235	2	< 0.01	42	2620	12	2	3	52	0.03	< 10	< 10	259	< 10	260
20750E 18375N	201	202	315	1	< 0.01	46	4060	12	2	5	124	0.05	< 10	< 10	256	< 10	210
20750E 18400N	201	202	185	11	< 0.01	144	4230	10	6	4	38	0.03	< 10	< 10	315	< 10	618
20750E 18425N	201	202	260	2	< 0.01	39	1260	10	< 2	5	18	0.07	< 10	< 10	113	< 10	186
20750E 18450N	201	202	230	1	< 0.01	23	2300	14	< 2	1	18	0.04	< 10	< 10	125	< 10	424
20750E 18475N	201	202	215	6	< 0.01	122	>10000	12	4	1	73	0.01	< 10	< 10	285	< 10	620
20750E 18500N	201	202	80	6	< 0.01	76	2640	12	< 2	< 1	21	< 0.01	< 10	< 10	144	< 10	282
20750E 18525N	201	202	55	10	< 0.01	156	4540	12	6	< 1	36	< 0.01	< 10	< 10	217	< 10	634
20750E 18550N	201	202	180	14	< 0.01	216	>10000	14	8	3	126	0.01	< 10	< 10	514	< 10	814
20750E 18575N	201	202	250	7	< 0.01	104	9140	10	2	1	46	0.01	< 10	< 10	218	< 10	412
20750E 18600N	201	202	100	19	< 0.01	203	>10000	12	10	4	113	0.01	< 10	< 10	424	< 10	774
20750E 18625N	201	202	55	13	< 0.01	162	6790	12	8	3	50	0.01	< 10	< 10	268	< 10	624
20750E 18650N	201	202	230	11	< 0.01	230	9600	6	10	6	122	< 0.01	< 10	< 10	307	< 10	960
20750E 18675N	201	202	295	15	< 0.01	147	3960	10	10	3	62	< 0.01	< 10	< 10	272	< 10	694
20750E 18700N	201	202	440	6	< 0.01	37	1970	6	4	< 1	52	< 0.01	< 10	< 10	113	< 10	260
20750E 18725N	201	202	325	9	< 0.01	117	2670	4	4	2	67	0.01	< 10	< 10	178	< 10	660
20750E 18750N	201	202	270	1	< 0.01	27	800	8	8	5	50	< 0.01	< 10	< 10	18	< 10	74
20750E 18775N	201	202	260	1	< 0.01	20	630	6	8	2	32	< 0.01	< 10	< 10	9	< 10	42
20750E 18800N	201	202	385	2	< 0.01	27	630	10	6	5	33	< 0.01	< 10	< 10	21	< 10	78
20750E 18825N	201	202	435	< 1	< 0.01	15	940	< 2	< 2	1	88	0.01	< 10	< 10	10	< 10	16
20750E 18850N	201	202	345	2	< 0.01	34	960	8	10	6	52	< 0.01	< 10	< 10	17	< 10	114
20750E 18875N	201	202	345	< 1	< 0.01	13	1050	< 2	< 2	1	67	< 0.01	< 10	< 10	7	< 10	34
20750E 18900N	201	202	530	1	< 0.01	16	1130	< 2	26	2	72	< 0.01	< 10	< 10	11	< 10	36
20750E 18925N	201	202	355	2	< 0.01	20	1280	6	44	3	65	< 0.01	< 10	< 10	16	< 10	54
20750E 18950N	201	202	385	2	< 0.01	5	760	< 2	14	< 1	74	< 0.01	< 10	< 10	5	< 10	44
20750E 18975N	201	202	415	1	< 0.01	23	880	2	38	3	71	< 0.01	< 10	< 10	10	< 10	92

CERTIFICATION

Hart Bickler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
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Project:
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Page: 1 : 2-A
 Total P.: 9
 Certificate Date: 25-SEP-97
 Invoice No.: 19740536
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CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	
	FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	%	ppm	ppm	%	
20750E 19000N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20750E 19025N	201	202	< 5	30.00	0.2	1.35	16	230	< 0.5	< 2	0.21	1.0	9	21	14	2.22	< 10	90	0.05	10	0.33	
20750E 19050N	201	202	< 5	30.00	0.2	1.72	18	360	< 0.5	< 2	0.19	0.5	7	31	27	2.40	< 10	150	0.05	10	0.40	
20750E 19075N	201	202	< 5	30.00	0.2	1.68	18	380	< 0.5	< 2	0.19	< 0.5	6	31	28	2.48	< 10	150	0.08	20	0.39	
20750E 19100N	201	202	< 5	30.00	0.2	1.49	16	440	< 0.5	< 2	0.27	0.5	6	27	32	2.29	< 10	160	0.08	20	0.36	
20750E 19125N	201	202	< 5	30.00	0.2	1.49	24	330	0.5	< 2	0.11	0.5	7	23	34	3.05	< 10	50	0.11	30	0.27	
20750E 19150N	201	202	< 5	30.00	0.2	2.34	24	260	0.5	< 2	0.09	0.5	8	32	20	3.02	< 10	30	0.09	20	0.32	
20750E 19175N	201	202	< 5	30.00	< 0.2	2.44	14	230	< 0.5	< 2	0.09	1.0	7	34	14	3.51	< 10	10	0.09	10	0.40	
20750E 19200N	201	202	< 5	30.00	< 0.2	1.60	22	290	0.5	< 2	0.04	0.5	8	21	40	3.22	< 10	60	0.09	30	0.22	
20750E 19225N	201	202	< 5	30.00	0.4	2.23	12	220	0.5	< 2	0.09	0.5	9	28	14	2.89	< 10	20	0.07	20	0.32	
20750E 19250N	201	202	< 5	30.00	0.4	2.14	12	190	0.5	< 2	0.07	< 0.5	9	29	17	3.18	< 10	20	0.07	10	0.35	
20750E 19275N	201	202	< 5	30.00	< 0.2	1.70	10	130	< 0.5	< 2	0.09	< 0.5	5	24	12	2.49	< 10	10	0.06	10	0.24	
20750E 19300N	201	202	< 5	30.00	< 0.2	1.01	20	180	0.5	< 2	0.16	0.5	8	21	25	2.84	< 10	40	0.11	20	0.28	
20750E 19325N	201	202	< 5	30.00	0.2	0.89	20	210	< 0.5	< 2	0.08	0.5	4	19	20	2.19	< 10	40	0.08	10	0.21	
20750E 19350N	201	202	< 5	30.00	1.6	1.11	30	530	0.5	< 2	0.11	2.5	4	13	67	2.43	< 10	200	0.11	20	0.07	
20750E 19375N	201	202	< 5	30.00	0.6	1.06	30	290	0.5	< 2	0.07	2.0	8	19	55	2.79	< 10	110	0.10	20	0.13	
20750E 19400N	201	202	< 5	30.00	0.6	0.56	36	380	0.5	< 2	0.04	1.5	15	15	46	3.57	< 10	30	0.11	40	0.09	
20750E 19425N	201	202	< 5	30.00	0.6	0.75	40	500	0.5	< 2	0.05	2.5	21	18	62	4.69	< 10	40	0.13	40	0.11	
20850E 18000N	201	202	< 5	30.00	0.2	2.03	12	230	< 0.5	< 2	0.15	< 0.5	6	36	14	2.71	< 10	10	0.05	10	0.38	
20850E 18025N	201	202	< 5	30.00	0.2	2.32	12	240	0.5	< 2	0.20	0.5	12	41	32	3.17	< 10	40	0.09	10	0.59	
20850E 18050N	201	202	< 5	30.00	< 0.2	2.06	14	280	0.5	< 2	0.23	0.5	10	48	49	2.60	< 10	80	0.07	10	0.48	
20850E 18075N	201	202	< 5	30.00	< 0.2	2.23	12	230	< 0.5	< 2	0.13	< 0.5	8	39	17	2.83	< 10	30	0.06	10	0.51	
20850E 18100N	201	202	< 5	30.00	0.2	1.71	8	220	< 0.5	< 2	0.14	< 0.5	9	27	15	2.31	< 10	30	0.04	10	0.41	
20850E 18125N	201	202	< 5	30.00	< 0.2	1.91	12	230	< 0.5	< 2	0.15	< 0.5	9	31	18	2.67	< 10	40	0.05	10	0.45	
20850E 18150N	201	202	< 5	30.00	< 0.2	1.80	8	240	< 0.5	< 2	0.16	< 0.5	7	36	17	2.44	< 10	40	0.05	10	0.41	
20850E 18175N	201	202	< 5	30.00	1.8	2.20	6	250	0.5	< 2	0.18	1.0	7	45	13	2.81	< 10	50	0.05	10	0.36	
20850E 18200N	201	202	< 5	30.00	0.8	1.30	6	270	0.5	< 2	0.38	2.0	4	87	36	1.95	< 10	50	0.05	10	0.14	
20850E 18225N	201	202	< 5	30.00	0.6	1.94	6	240	< 0.5	< 2	0.18	1.5	8	48	17	2.61	< 10	20	0.04	10	0.36	
20850E 18250N	201	202	< 5	30.00	1.2	2.15	12	270	0.5	< 2	0.46	2.0	8	66	40	3.18	< 10	130	0.06	10	0.40	
20850E 18275N	201	202	< 5	30.00	1.4	1.65	10	220	< 0.5	< 2	0.38	1.0	7	49	32	2.23	< 10	260	0.04	10	0.45	
20850E 18300N	201	202	< 5	30.00	2.2	1.34	6	270	0.5	< 2	0.20	6.0	7	41	59	2.05	< 10	140	0.04	10	0.22	
20850E 18325N	201	202	< 5	30.00	1.4	2.15	12	260	0.5	< 2	0.49	2.0	8	64	45	2.76	< 10	150	0.06	10	0.43	
20850E 18350N	201	202	< 5	15.00	1.4	2.51	14	350	0.5	< 2	0.32	4.0	8	58	32	3.44	< 10	160	0.07	10	0.41	
20850E 18375N	201	202	< 5	30.00	1.2	2.15	8	250	< 0.5	< 2	0.16	2.5	7	42	23	3.13	< 10	50	0.06	10	0.34	
20850E 18400N	201	202	< 5	30.00	0.6	2.02	6	200	< 0.5	< 2	0.12	1.5	5	43	15	3.14	< 10	30	0.05	10	0.29	
20850E 18425N	201	202	< 5	30.00	< 0.2	1.37	12	590	0.5	< 2	0.55	1.5	4	78	42	2.67	< 10	40	0.08	30	0.22	
20850E 18450N	201	202	< 5	15.00	< 0.2	1.61	12	850	2.0	< 2	1.14	3.0	8	104	68	2.62	< 10	160	0.08	40	0.17	
20850E 18475N	201	202	< 5	30.00	1.0	0.96	8	420	0.5	< 2	0.74	3.0	3	67	58	1.82	< 10	170	0.06	30	0.07	
20850E 18500N	201	202	< 5	15.00	3.4	0.91	14	390	1.5	< 2	2.58	10.5	6	165	146	2.06	< 10	650	0.14	40	0.06	
20850E 18525N	201	202	< 5	15.00	1.6	0.85	14	300	1.0	< 2	1.28	4.5	5	97	98	1.77	< 10	310	0.10	40	0.05	

CERTIFICATION: *Handwritten signature*



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN: RICK DIMENT

Page No. : 2-B
 Total Pgs : 9
 Certificate Date: 25-SEP-97
 Invoice No. : 19740536
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
20750E 19000N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20750E 19025N	201	202	500	< 1	< 0.01	16	590	14	12	2	20	0.01	< 10	< 10	48	< 10	92
20750E 19050N	201	202	200	4	< 0.01	20	800	12	4	3	30	0.04	< 10	< 10	99	< 10	68
20750E 19075N	201	202	185	5	< 0.01	20	800	14	< 2	4	34	0.04	< 10	< 10	89	< 10	80
20750E 19100N	201	202	145	5	< 0.01	22	680	16	< 2	4	40	0.03	< 10	< 10	65	< 10	74
20750E 19125N	201	202	140	7	< 0.01	27	750	22	4	4	54	0.02	< 10	< 10	56	< 10	152
20750E 19150N	201	202	325	5	< 0.01	23	830	16	2	3	19	0.02	< 10	< 10	67	< 10	188
20750E 19175N	201	202	240	3	< 0.01	21	610	14	2	4	15	0.04	< 10	< 10	71	< 10	226
20750E 19200N	201	202	190	5	< 0.01	29	450	24	8	3	30	< 0.01	< 10	< 10	44	< 10	196
20750E 19225N	201	202	355	1	< 0.01	18	350	12	< 2	3	18	0.04	< 10	< 10	57	< 10	170
20750E 19250N	201	202	290	< 1	< 0.01	20	300	12	< 2	3	14	0.04	< 10	< 10	58	< 10	148
20750E 19275N	201	202	180	< 1	< 0.01	12	310	12	< 2	3	11	0.04	< 10	< 10	53	< 10	62
20750E 19300N	201	202	270	1	< 0.01	25	800	24	6	3	23	0.03	< 10	< 10	39	< 10	150
20750E 19325N	201	202	140	1	< 0.01	16	530	32	4	1	25	0.02	< 10	< 10	39	< 10	92
20750E 19350N	201	202	70	3	< 0.01	30	1320	66	8	4	47	< 0.01	< 10	< 10	29	< 10	156
20750E 19375N	201	202	205	3	< 0.01	30	1090	78	6	1	40	< 0.01	< 10	< 10	36	< 10	176
20750E 19400N	201	202	350	3	< 0.01	59	700	52	10	3	57	< 0.01	< 10	< 10	43	< 10	350
20750E 19425N	201	202	545	4	< 0.01	75	830	50	10	5	79	< 0.01	< 10	< 10	54	< 10	464
20850E 18000N	201	202	155	1	< 0.01	17	620	8	< 2	3	17	0.05	< 10	< 10	98	< 10	74
20850E 18025N	201	202	575	1	< 0.01	30	730	8	< 2	5	22	0.08	< 10	< 10	94	< 10	96
20850E 18050N	201	202	315	1	< 0.01	31	1310	8	< 2	4	29	0.05	< 10	< 10	166	< 10	112
20850E 18075N	201	202	265	2	< 0.01	21	510	8	< 2	4	16	0.06	< 10	< 10	116	< 10	84
20850E 18100N	201	202	345	< 1	< 0.01	16	600	8	< 2	3	12	0.04	< 10	< 10	46	< 10	48
20850E 18125N	201	202	375	< 1	< 0.01	18	640	10	< 2	3	14	0.05	< 10	< 10	60	< 10	62
20850E 18150N	201	202	270	< 1	< 0.01	16	880	8	< 2	3	18	0.05	< 10	< 10	94	< 10	72
20850E 18175N	201	202	290	< 1	< 0.01	21	1850	10	< 2	4	15	0.05	< 10	< 10	112	< 10	250
20850E 18200N	201	202	90	4	< 0.01	84	2670	12	2	< 1	28	< 0.01	< 10	< 10	253	< 10	384
20850E 18225N	201	202	325	< 1	< 0.01	27	1830	10	< 2	3	15	0.04	< 10	< 10	114	< 10	246
20850E 18250N	201	202	300	1	< 0.01	57	5410	10	< 2	3	34	0.03	< 10	< 10	185	< 10	356
20850E 18275N	201	202	170	< 1	< 0.01	57	1990	8	< 2	3	25	0.03	< 10	< 10	140	< 10	306
20850E 18300N	201	202	195	1	< 0.01	40	1720	8	< 2	1	22	0.01	< 10	< 10	118	< 10	178
20850E 18325N	201	202	220	1	< 0.01	49	3600	10	< 2	4	37	0.04	< 10	< 10	188	< 10	234
20850E 18350N	201	202	315	1	< 0.01	24	4190	10	< 2	3	64	0.05	< 10	< 10	167	< 10	154
20850E 18375N	201	202	245	< 1	< 0.01	16	2110	8	< 2	1	29	0.03	< 10	< 10	113	< 10	104
20850E 18400N	201	202	195	1	< 0.01	15	2000	10	< 2	1	23	0.04	< 10	< 10	136	< 10	100
20850E 18425N	201	202	185	1	< 0.01	27	5110	10	2	1	140	0.03	< 10	< 10	300	< 10	118
20850E 18450N	201	202	305	1	< 0.01	22	>10000	12	2	< 1	275	< 0.01	< 10	< 10	398	< 10	108
20850E 18475N	201	202	65	5	< 0.01	72	5650	12	< 2	< 1	112	< 0.01	< 10	< 10	264	< 10	302
20850E 18500N	201	202	140	12	< 0.01	248	>10000	16	10	2	113	< 0.01	< 10	< 10	494	< 10	1015
20850E 18525N	201	202	115	11	< 0.01	150	7210	14	6	< 1	59	< 0.01	< 10	< 10	275	< 10	616

CERTIFICATION: Hunter B...



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT

Page No: :3-A
Total Pk: :9
Certificate Date: 25-SEP-97
Invoice No.: 19740536
P.O. Number:
Account: :OQN

CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE	Au ppb fusion FA+AA wt. gm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
20850E 18550N	201 202	< 5 30.00	5.0	1.27	14	460	1.0	< 2	1.00	6.5	20	103	136	2.06	< 10	660	0.12	30	0.12
20850E 18575N	201 202	< 5 30.00	2.8	0.98	18	290	1.0	< 2	1.93	4.5	13	147	116	1.97	< 10	790	0.18	30	0.10
20850E 18600N	201 202	< 5 30.00	5.6	0.98	26	280	1.0	< 2	1.99	5.5	12	108	111	2.29	< 10	1690	0.14	30	0.45
20850E 18625N	201 202	20 30.00	14.2	1.16	30	300	1.0	< 2	2.00	6.5	8	117	147	2.32	< 10	3950	0.12	30	0.20
20850E 18650N	201 202	< 5 30.00	2.6	0.76	26	190	0.5	< 2	3.55	6.5	6	76	91	1.70	< 10	1250	0.16	30	0.73
20850E 18675N	201 202	< 5 30.00	3.2	0.47	14	170	0.5	< 2	3.19	6.0	5	33	89	1.35	< 10	1380	0.07	10	0.54
20850E 18700N	201 202	< 5 30.00	1.0	0.46	10	200	0.5	< 2	2.79	4.0	5	16	43	1.22	< 10	1100	0.06	10	0.35
20850E 18725N	201 202	10 30.00	0.2	0.50	16	200	< 0.5	< 2	2.46	1.0	6	8	23	1.35	< 10	230	0.07	< 10	0.42
20850E 18750N	201 202	< 5 30.00	0.2	0.53	18	210	0.5	< 2	1.06	0.5	9	8	25	2.08	< 10	120	0.10	10	0.27
20850E 18775N	201 202	60 30.00	0.8	0.65	48	260	0.5	< 2	0.85	1.0	10	12	35	2.52	< 10	360	0.09	10	0.24
20850E 18800N	201 202	10 15.00	0.2	1.07	6	280	< 0.5	< 2	2.69	< 0.5	8	16	22	1.68	< 10	290	0.06	< 10	0.62
20850E 18825N	201 202	50 15.00	2.0	0.85	6	220	< 0.5	< 2	2.77	0.5	5	13	27	1.21	< 10	450	0.04	< 10	0.54
20850E 18850N	201 202	60 30.00	2.0	1.18	14	220	0.5	< 2	2.05	0.5	8	19	29	2.03	< 10	510	0.06	10	0.49
20850E 18875N	201 202	90 30.00	1.4	1.08	32	260	1.0	< 2	1.16	< 0.5	11	17	43	3.12	< 10	480	0.10	20	0.42
20850E 18900N	201 202	15 30.00	0.6	0.94	32	230	0.5	< 2	0.23	< 0.5	10	16	50	3.28	< 10	230	0.15	10	0.15
20850E 18925N	201 202	30 30.00	1.8	0.69	48	260	1.0	< 2	1.08	< 0.5	13	12	53	3.56	< 10	610	0.13	20	0.29
20850E 18950N	201 202	25 30.00	1.2	0.51	24	300	0.5	< 2	1.85	< 0.5	8	9	30	2.08	< 10	430	0.07	10	0.26
20850E 18975N	201 202	20 30.00	0.6	1.16	26	370	< 0.5	< 2	1.15	2.0	9	18	25	1.77	< 10	280	0.07	10	0.38
20850E 19000N	201 202	< 5 30.00	< 0.2	1.04	6	200	< 0.5	< 2	0.29	< 0.5	3	18	17	1.49	< 10	80	0.04	10	0.24
20850E 19025N	201 202	5 30.00	0.2	1.30	10	270	< 0.5	< 2	0.16	< 0.5	5	19	10	1.73	< 10	80	0.05	10	0.31
20850E 19050N	201 202	< 5 30.00	0.6	1.08	44	720	< 0.5	< 2	0.23	0.5	4	37	35	2.23	< 10	140	0.15	20	0.21
20850E 19075N	201 202	< 5 30.00	0.6	2.28	34	730	0.5	< 2	0.28	0.5	13	49	55	3.17	< 10	330	0.11	10	0.54
20850E 19100N	201 202	< 5 30.00	0.4	1.87	10	490	0.5	< 2	0.17	0.5	7	32	33	2.93	< 10	100	0.08	10	0.37
20850E 19125N	201 202	< 5 30.00	0.2	1.85	14	350	< 0.5	< 2	0.15	< 0.5	5	30	24	2.52	< 10	110	0.09	10	0.37
20850E 19150N	201 202	< 5 30.00	0.2	1.98	18	300	0.5	< 2	0.09	0.5	9	27	25	3.26	< 10	20	0.10	20	0.32
20850E 19175N	201 202	< 5 30.00	1.0	1.76	30	440	< 0.5	< 2	0.13	0.5	4	37	22	3.38	< 10	30	0.09	10	0.29
20850E 19200N	201 202	< 5 30.00	1.0	2.48	22	220	< 0.5	< 2	0.12	< 0.5	10	35	23	3.14	< 10	280	0.05	10	0.48
20850E 19225N	201 202	10 30.00	2.2	2.16	328	3810	2.5	< 2	1.42	2.5	34	145	153	7.16	< 10	140	0.17	30	0.15
20850E 19250N	201 202	10 30.00	3.2	1.44	168	1660	1.5	< 2	0.76	3.5	10	71	112	4.19	< 10	240	0.27	30	0.11
20850E 19275N	201 202	10 30.00	1.4	0.43	12	760	< 0.5	< 2	0.03	< 0.5	< 1	9	31	0.85	< 10	40	0.14	30	0.02
20850E 19300N	201 202	5 30.00	1.0	0.42	40	810	< 0.5	< 2	0.03	< 0.5	4	12	36	2.03	< 10	40	0.12	30	0.04
20850E 19325N	201 202	5 30.00	0.8	0.70	60	660	0.5	< 2	0.05	0.5	6	17	49	2.64	< 10	80	0.10	20	0.09
20850E 19350N	201 202	10 30.00	0.4	0.85	30	610	< 0.5	< 2	0.09	1.5	7	18	35	2.75	< 10	50	0.09	20	0.17
20850E 19375N	201 202	< 5 30.00	0.2	1.12	28	530	0.5	< 2	0.04	2.5	17	18	41	3.94	< 10	30	0.11	30	0.22
20850E 19400N	201 202	< 5 30.00	0.6	1.14	20	750	< 0.5	< 2	0.15	3.0	10	21	32	2.64	< 10	150	0.12	30	0.22
20850E 19425N	201 202	< 5 30.00	0.8	1.22	18	710	0.5	< 2	0.11	2.0	7	19	38	2.36	< 10	130	0.12	30	0.22
20950E 18000N	201 202	< 5 30.00	0.2	2.00	4	310	< 0.5	< 2	0.14	< 0.5	6	32	11	2.70	< 10	< 10	0.05	10	0.40
20950E 18025N	201 202	< 5 30.00	< 0.2	2.36	6	250	< 0.5	< 2	0.13	< 0.5	7	36	14	2.93	< 10	30	0.05	10	0.51
20950E 18050N	201 202	< 5 30.00	< 0.2	2.47	2	270	< 0.5	< 2	0.14	< 0.5	9	36	14	3.05	< 10	10	0.05	10	0.51
20950E 18075N	201 202	< 5 30.00	0.2	2.19	16	260	< 0.5	< 2	0.13	< 0.5	8	33	15	3.27	< 10	40	0.05	10	0.49

CERTIFICATION: *[Signature]*



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
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Project :
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CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
20850E 18550N	201	202	395	9 < 0.01		152	5700	16	4	1	54 < 0.01	< 10	< 10	265	< 10		562
20850E 18575N	201	202	385	12 < 0.01		199	8250	12	8	2	76 < 0.01	< 10	< 10	368	< 10		808
20850E 18600N	201	202	375	9 < 0.01		268	5130	12	10	3	63 < 0.01	< 10	< 10	258	< 10		1160
20850E 18625N	201	202	205	19 < 0.01		321	5260	14	18	4	75 < 0.01	< 10	< 10	348	< 10		1400
20850E 18650N	201	202	195	17 < 0.01		157	5050	8	8	4	102 < 0.01	< 10	< 10	327	< 10		732
20850E 18675N	201	202	175	11 < 0.01		130	2220	2	8	3	75 < 0.01	< 10	< 10	138	< 10		512
20850E 18700N	201	202	215	7 < 0.01		62	1440	6	6	2	76 < 0.01	< 10	< 10	109	< 10		322
20850E 18725N	201	202	300	4 < 0.01		39	870	4	6	2	60 < 0.01	< 10	< 10	28	< 10		150
20850E 18750N	201	202	285	4 < 0.01		39	580	8	6	4	31 < 0.01	< 10	< 10	21	< 10		150
20850E 18775N	201	202	310	7 < 0.01		62	680	10	8	7	30 < 0.01	< 10	< 10	36	< 10		240
20850E 18800N	201	202	420	< 1 < 0.01		22	790	6	6	4	66 0.02	< 10	< 10	23	< 10		52
20850E 18825N	201	202	335	< 1 < 0.01		17	870	8	734	3	67 0.03	< 10	< 10	20	< 10		68
20850E 18850N	201	202	600	1 < 0.01		32	930	6	534	4	58 0.02	< 10	< 10	32	< 10		96
20850E 18875N	201	202	310	5 < 0.01		47	740	14	294	7	38 < 0.01	< 10	< 10	24	< 10		114
20850E 18900N	201	202	160	3 < 0.01		48	500	12	62	4	18 < 0.01	< 10	< 10	26	< 10		162
20850E 18925N	201	202	325	8 < 0.01		70	800	10	116	9	43 < 0.01	< 10	< 10	21	< 10		196
20850E 18950N	201	202	290	1 < 0.01		30	570	10	66	5	41 < 0.01	< 10	< 10	15	< 10		84
20850E 18975N	201	202	645	1 < 0.01		27	1010	12	24	3	51 < 0.01	< 10	< 10	53	< 10		144
20850E 19000N	201	202	75	< 1 < 0.01		12	730	8	8	< 1	26 0.01	< 10	< 10	27	< 10		40
20850E 19025N	201	202	135	< 1 < 0.01		13	440	14	4	2	21 0.01	< 10	< 10	29	< 10		48
20850E 19050N	201	202	115	21 < 0.01		39	1470	34	12	2	133 0.02	< 10	< 10	306	< 10		160
20850E 19075N	201	202	425	10 < 0.01		39	1050	22	4	5	62 0.06	< 10	< 10	265	< 10		130
20850E 19100N	201	202	175	5 < 0.01		23	880	16	2	4	39 0.04	< 10	< 10	84	< 10		100
20850E 19125N	201	202	150	8 < 0.01		17	780	16	< 2	4	30 0.05	< 10	< 10	79	< 10		54
20850E 19150N	201	202	275	7 < 0.01		29	960	24	2	3	45 0.02	< 10	< 10	64	< 10		198
20850E 19175N	201	202	235	21 < 0.01		23	1200	22	2	3	69 0.05	< 10	< 10	190	< 10		102
20850E 19200N	201	202	285	3 < 0.01		23	620	8	< 2	4	20 0.06	< 10	< 10	79	< 10		86
20850E 19225N	201	202	790	48 < 0.01		111	>10000	76	32	10	363 0.04	< 10	< 10	850	< 10		446
20850E 19250N	201	202	325	45 < 0.01		104	6110	140	36	7	306 < 0.01	< 10	< 10	457	< 10		380
20850E 19275N	201	202	20	2 < 0.01		7	500	22	8	1	75 < 0.01	< 10	< 10	25	< 10		48
20850E 19300N	201	202	60	8 < 0.01		21	980	26	10	3	108 < 0.01	< 10	< 10	46	< 10		142
20850E 19325N	201	202	175	7 < 0.01		23	1310	50	8	2	116 < 0.01	< 10	< 10	57	< 10		168
20850E 19350N	201	202	245	5 < 0.01		28	840	40	4	3	67 0.01	< 10	< 10	47	< 10		186
20850E 19375N	201	202	305	4 < 0.01		62	630	36	4	4	61 < 0.01	< 10	< 10	46	< 10		410
20850E 19400N	201	202	275	4 < 0.01		38	690	26	< 2	3	69 < 0.01	< 10	< 10	44	< 10		186
20850E 19425N	201	202	125	3 < 0.01		30	800	26	2	3	58 < 0.01	< 10	< 10	43	< 10		142
20950E 18000N	201	202	320	< 1 < 0.01		14	360	10	< 2	3	18 0.07	< 10	< 10	77	< 10		64
20950E 18025N	201	202	245	< 1 < 0.01		18	270	10	< 2	4	15 0.07	< 10	< 10	68	< 10		64
20950E 18050N	201	202	325	< 1 < 0.01		17	380	10	< 2	4	19 0.07	< 10	< 10	63	< 10		58
20950E 18075N	201	202	395	< 1 < 0.01		21	500	10	< 2	3	16 0.05	< 10	< 10	62	< 10		74

CERTIFICATION: Hart B...



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Page No : 4-A
 Total Pgs : 9
 Certificate Date: 25-SEP-97
 Invoice No. : 19740536
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE		Au ppb fusion	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
20950E 18100N	201	202	< 5 30.00	< 0.2	2.22	6	230	< 0.5	< 2	0.16	< 0.5	7	32	12	2.98	< 10	20	0.04	10	0.44
20950E 18125N	201	202	< 5 30.00	0.2	1.69	6	360	< 0.5	< 2	0.11	< 0.5	9	28	14	2.98	< 10	10	0.04	10	0.35
20950E 18150N	201	202	< 5 30.00	< 0.2	1.68	2	180	< 0.5	< 2	0.09	< 0.5	6	24	12	2.53	< 10	10	0.03	< 10	0.32
20950E 18175N	201	202	< 5 30.00	0.2	1.58	2	190	< 0.5	< 2	0.08	0.5	7	24	12	2.88	< 10	20	0.04	< 10	0.32
20950E 18200N	201	202	< 5 30.00	0.2	1.51	8	220	< 0.5	< 2	0.11	< 0.5	8	24	16	2.82	< 10	20	0.04	10	0.37
20950E 18225N	201	202	< 5 30.00	< 0.2	1.49	6	130	< 0.5	< 2	0.10	< 0.5	4	31	13	2.15	< 10	20	0.04	10	0.33
20950E 18250N	201	202	< 5 30.00	< 0.2	1.68	6	170	< 0.5	< 2	0.12	< 0.5	3	54	18	2.07	< 10	80	0.05	10	0.31
20950E 18275N	201	202	< 5 30.00	< 0.2	2.39	14	260	0.5	< 2	0.27	1.5	9	70	68	2.92	< 10	240	0.08	20	0.50
20950E 18300N	201	202	< 5 30.00	< 0.2	2.11	2	150	< 0.5	< 2	0.14	0.5	3	47	15	2.66	10	10	0.04	10	0.28
20950E 18325N	201	202	< 5 30.00	< 0.2	2.71	6	240	0.5	< 2	0.35	0.5	10	75	56	2.98	< 10	300	0.08	20	0.51
20950E 18350N	201	202	< 5 30.00	< 0.2	2.06	4	180	< 0.5	< 2	0.14	< 0.5	3	49	19	2.71	< 10	50	0.05	10	0.27
20950E 18375N	201	202	< 5 30.00	< 0.2	1.62	16	290	0.5	< 2	0.67	1.5	4	83	47	2.32	< 10	80	0.07	20	0.26
20950E 18400N	201	202	< 25 2.50	1.6	1.58	2	240	0.5	< 2	0.43	2.5	4	59	34	1.83	< 10	130	0.06	10	0.19
20950E 18425N	201	202	< 5 30.00	1.8	1.28	16	280	1.0	< 2	1.10	9.0	7	113	65	2.60	< 10	120	0.07	30	0.14
20950E 18450N	201	202	< 5 30.00	3.2	1.74	12	220	0.5	< 2	0.64	3.5	5	113	49	2.74	< 10	190	0.06	20	0.23
20950E 18475N	201	202	< 5 15.00	1.6	1.15	12	180	< 0.5	< 2	0.69	4.0	4	75	36	2.52	< 10	170	0.06	20	0.16
20950E 18500N	201	202	< 5 15.00	1.2	1.37	10	300	0.5	< 2	1.28	5.5	8	100	51	2.61	< 10	290	0.08	30	0.26
20950E 18525N	201	202	< 5 30.00	1.0	2.08	10	400	0.5	< 2	1.27	6.5	7	74	71	2.56	< 10	350	0.11	30	0.41
20950E 18550N	201	202	< 5 10.00	2.8	0.89	< 2	210	< 0.5	< 2	0.32	3.0	1	32	27	1.39	< 10	320	0.04	10	0.08
20950E 18575N	201	202	< 5 30.00	4.6	1.23	14	210	0.5	< 2	1.43	3.0	6	85	60	2.26	< 10	1690	0.06	20	0.42
20950E 18600N	201	202	< 5 15.00	0.8	0.91	12	140	< 0.5	< 2	0.37	0.5	11	34	36	2.52	< 10	90	0.04	10	0.19
20950E 18625N	201	202	< 5 30.00	1.4	0.63	4	190	< 0.5	< 2	2.32	0.5	3	22	36	0.98	< 10	280	0.02	< 10	0.16
20950E 18650N	201	202	< 5 30.00	0.6	0.89	20	190	0.5	< 2	1.74	10.5	6	31	57	1.39	< 10	340	0.05	10	0.21
20950E 18675N	201	202	< 5 30.00	0.4	0.56	22	140	0.5	< 2	2.76	10.5	5	18	53	1.53	< 10	550	0.08	20	0.93
20950E 18700N	201	202	< 5 30.00	0.6	0.72	2	170	< 0.5	< 2	3.35	8.5	3	14	32	0.92	< 10	450	0.03	10	0.45
20950E 18725N	201	202	< 5 30.00	0.2	1.38	2	320	0.5	< 2	1.16	1.5	10	20	28	2.16	< 10	150	0.05	10	0.34
20950E 18750N	201	202	< 5 30.00	< 0.2	1.40	6	350	< 0.5	< 2	0.62	< 0.5	6	21	13	2.33	< 10	30	0.07	10	0.32
20950E 18775N	201	202	< 5 30.00	0.2	1.41	2	230	< 0.5	< 2	0.42	< 0.5	7	23	14	2.74	< 10	80	0.10	10	0.31
20950E 18800N	201	202	< 5 30.00	< 0.2	1.70	6	290	< 0.5	< 2	0.39	< 0.5	8	26	13	2.70	< 10	20	0.07	10	0.47
20950E 18825N	201	202	< 5 30.00	< 0.2	1.70	4	290	0.5	< 2	1.35	< 0.5	11	23	15	2.72	< 10	60	0.10	10	0.53
20950E 18850N	201	202	< 5 30.00	< 0.2	1.28	2	210	< 0.5	< 2	0.19	< 0.5	7	21	18	2.75	< 10	70	0.08	10	0.27
20950E 18875N	201	202	< 5 30.00	0.2	0.84	< 2	390	< 0.5	< 2	2.27	< 0.5	6	11	23	1.48	< 10	130	0.06	< 10	0.33
20950E 18900N	201	202	not/## not/##	< 0.2	0.22	< 2	260	< 0.5	< 2	4.12	< 0.5	1	3	11	0.30	< 10	120	0.01	< 10	0.53
20950E 18925N	201	202	< 5 15.00	< 0.2	0.25	< 2	210	< 0.5	< 2	3.44	< 0.5	1	3	17	0.48	< 10	130	0.04	< 10	0.50
20950E 18950N	--	--	NotRed NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20950E 18975N	201	202	10 30.00	0.8	1.73	22	590	0.5	< 2	0.49	1.0	12	24	25	2.28	< 10	380	0.09	20	0.38
20950E 19000N	201	202	5 30.00	0.2	1.54	12	300	< 0.5	< 2	0.21	< 0.5	5	23	10	1.69	< 10	50	0.07	20	0.38
20950E 19025N	201	202	10 30.00	0.2	2.27	30	260	< 0.5	< 2	0.12	< 0.5	6	34	13	3.03	< 10	70	0.09	20	0.42
20950E 19050N	201	202	< 5 30.00	0.6	2.05	14	290	< 0.5	< 2	0.13	< 0.5	5	30	11	2.63	< 10	120	0.07	10	0.36
20950E 19075N	201	202	< 5 30.00	1.0	1.91	28	620	< 0.5	< 2	0.07	< 0.5	6	28	27	4.05	< 10	200	0.11	20	0.29

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN:RICK DIMENT

Page N : 4-B
 Total P : 9
 Certificate Date: 25-SEP-97
 Invoice No. : 19740536
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
20950E 18100N	201	202	325	< 1	< 0.01	17	370	10	< 2	3	18	0.06	< 10	< 10	56	< 10	58
20950E 18125N	201	202	695	< 1	< 0.01	16	600	12	< 2	1	14	0.04	< 10	< 10	54	< 10	54
20950E 18150N	201	202	310	< 1	< 0.01	13	930	12	< 2	1	12	0.03	< 10	< 10	45	< 10	44
20950E 18175N	201	202	355	< 1	< 0.01	14	660	10	< 2	1	9	0.03	< 10	< 10	51	< 10	72
20950E 18200N	201	202	510	< 1	< 0.01	18	540	12	< 2	1	15	0.03	< 10	< 10	50	< 10	70
20950E 18225N	201	202	145	< 1	< 0.01	17	640	12	< 2	< 1	11	0.01	< 10	< 10	53	< 10	78
20950E 18250N	201	202	115	< 1	< 0.01	17	1290	12	< 2	< 1	19	0.01	< 10	< 10	252	< 10	80
20950E 18275N	201	202	290	< 1	< 0.01	53	1140	10	< 2	5	31	0.06	< 10	< 10	347	< 10	198
20950E 18300N	201	202	100	< 1	< 0.01	9	690	16	< 2	4	18	0.08	< 10	< 10	192	< 10	130
20950E 18325N	201	202	320	< 1	< 0.01	50	1890	10	< 2	5	30	0.05	< 10	< 10	373	< 10	240
20950E 18350N	201	202	120	< 1	< 0.01	14	1610	14	< 2	2	18	0.04	< 10	< 10	258	< 10	68
20950E 18375N	201	202	140	< 1	< 0.01	61	4840	10	6	< 1	54	0.01	< 10	< 10	508	< 10	258
20950E 18400N	201	202	330	3	< 0.01	58	3120	10	2	< 1	26	< 0.01	< 10	< 10	195	< 10	430
20950E 18425N	201	202	215	5	< 0.01	178	6060	16	4	< 1	50	< 0.01	< 10	< 10	575	< 10	1025
20950E 18450N	201	202	130	8	< 0.01	131	3900	14	6	< 1	39	0.01	< 10	< 10	464	< 10	914
20950E 18475N	201	202	115	4	< 0.01	88	4050	14	2	1	37	0.01	< 10	< 10	427	< 10	464
20950E 18500N	201	202	205	5	< 0.01	120	6240	12	2	1	62	0.01	< 10	< 10	488	< 10	724
20950E 18525N	201	202	280	< 1	< 0.01	92	4050	12	4	2	75	0.01	< 10	< 10	572	< 10	552
20950E 18550N	201	202	40	< 1	< 0.01	22	1560	8	< 2	< 1	24	< 0.01	< 10	< 10	93	< 10	132
20950E 18575N	201	202	175	6	< 0.01	155	2700	8	6	6	51	0.02	< 10	< 10	151	< 10	846
20950E 18600N	201	202	265	2	< 0.01	69	800	18	2	1	19	0.01	< 10	< 10	83	< 10	188
20950E 18625N	201	202	80	2	< 0.01	38	990	4	2	1	56	0.01	< 10	< 10	46	< 10	72
20950E 18650N	201	202	240	19	< 0.01	77	950	8	10	3	45	< 0.01	< 10	< 10	216	< 10	536
20950E 18675N	201	202	230	25	< 0.01	86	740	8	10	4	48	< 0.01	< 10	< 10	230	< 10	652
20950E 18700N	201	202	200	4	< 0.01	41	1160	2	2	1	86	< 0.01	< 10	< 10	84	< 10	220
20950E 18725N	201	202	600	1	< 0.01	32	730	6	< 2	5	50	0.01	< 10	< 10	48	< 10	80
20950E 18750N	201	202	185	1	< 0.01	18	320	10	< 2	3	26	0.03	< 10	< 10	62	< 10	96
20950E 18775N	201	202	255	1	< 0.01	24	480	12	10	3	23	0.03	< 10	< 10	55	< 10	118
20950E 18800N	201	202	235	< 1	< 0.01	21	190	10	< 2	4	21	0.05	< 10	< 10	48	< 10	60
20950E 18825N	201	202	715	< 1	< 0.01	23	490	12	< 2	4	39	0.03	< 10	< 10	36	< 10	54
20950E 18850N	201	202	200	1	< 0.01	25	390	10	2	2	17	0.01	< 10	< 10	42	< 10	84
20950E 18875N	201	202	350	1	< 0.01	18	740	6	2	4	55	0.01	< 10	< 10	16	< 10	36
20950E 18900N	201	202	185	1	< 0.01	6	620	< 2	6	< 1	72	< 0.01	< 10	< 10	4	< 10	20
20950E 18925N	201	202	100	1	< 0.01	13	700	< 2	2	1	60	< 0.01	< 10	< 10	5	< 10	22
20950E 18950N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
20950E 18975N	201	202	515	1	< 0.01	31	930	12	46	4	50	0.01	< 10	< 10	56	< 10	144
20950E 19000N	201	202	155	< 1	< 0.01	15	450	12	2	3	28	0.03	< 10	< 10	36	< 10	54
20950E 19025N	201	202	230	< 1	< 0.01	16	280	18	2	4	26	0.06	< 10	< 10	64	< 10	72
20950E 19050N	201	202	185	< 1	< 0.01	12	370	16	< 2	3	28	0.06	< 10	< 10	61	< 10	60
20950E 19075N	201	202	230	5	< 0.01	21	720	24	6	3	56	0.02	< 10	< 10	78	< 10	86

CERTIFICATION: David B...



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
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Project :
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Page : 5-A
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CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
20950E 19100N	201	202	< 5	30.00	< 0.2	2.18	12	200	< 0.5	< 2	0.10	< 0.5	7	31	19	2.70	< 10	40	0.07	10	0.45
20950E 19125N	201	202	< 5	30.00	0.2	1.98	20	260	< 0.5	< 2	0.09	< 0.5	8	31	29	2.91	< 10	40	0.09	10	0.44
20950E 19150N	201	202	< 5	30.00	0.4	2.59	44	520	0.5	< 2	0.15	< 0.5	8	41	27	3.74	< 10	320	0.15	20	0.41
20950E 19175N	201	202	< 5	30.00	0.6	1.60	32	230	< 0.5	< 2	0.13	< 0.5	7	31	20	4.10	< 10	70	0.08	10	0.37
20950E 19200N	201	202	10	30.00	1.2	0.84	94	690	0.5	< 2	0.02	< 0.5	7	16	65	3.56	< 10	60	0.15	30	0.09
20950E 19225N	201	202	35	30.00	0.4	1.41	28	300	0.5	< 2	0.07	< 0.5	4	22	35	2.59	< 10	70	0.07	10	0.17
20950E 19250N	201	202	15	30.00	1.4	0.56	28	670	< 0.5	< 2	0.02	< 0.5	4	11	35	2.50	< 10	60	0.14	20	0.05
20950E 19275N	201	202	10	30.00	1.0	0.90	130	390	0.5	< 2	0.03	2.5	12	17	70	4.20	< 10	80	0.09	20	0.08
20950E 19300N	201	202	10	30.00	0.8	0.66	260	460	0.5	< 2	0.02	2.5	14	16	106	5.51	< 10	150	0.06	30	0.03
20950E 19325N	201	202	< 5	30.00	0.4	0.60	50	650	< 0.5	< 2	0.03	2.0	6	10	40	2.37	< 10	60	0.10	30	0.03
20950E 19350N	201	202	< 5	30.00	0.6	0.77	70	710	0.5	< 2	0.10	3.0	12	14	68	3.39	< 10	80	0.12	30	0.07
20950E 19375N	201	202	< 5	30.00	0.8	1.22	12	830	< 0.5	< 2	0.13	1.5	14	20	30	2.00	< 10	140	0.11	20	0.24
20950E 19400N	201	202	< 5	30.00	0.2	0.90	14	450	< 0.5	< 2	0.17	0.5	2	16	21	1.56	< 10	100	0.08	10	0.16
21050E 18000N	201	202	< 5	30.00	< 0.2	2.71	2	220	< 0.5	< 2	0.12	< 0.5	8	39	18	3.09	< 10	20	0.07	10	0.54
21050E 18025N	201	202	< 5	30.00	< 0.2	1.95	6	130	< 0.5	< 2	0.12	< 0.5	7	31	16	2.54	< 10	30	0.05	10	0.48
21050E 18050N	201	202	< 5	30.00	0.4	1.37	2	120	< 0.5	< 2	0.06	< 0.5	6	31	10	2.92	< 10	20	0.04	10	0.27
21050E 18075N	201	202	< 5	30.00	< 0.2	2.12	10	120	< 0.5	< 2	0.09	< 0.5	7	38	13	3.28	< 10	20	0.06	10	0.54
21050E 18100N	201	202	< 5	30.00	< 0.2	2.61	8	180	< 0.5	< 2	0.10	< 0.5	6	44	16	3.35	< 10	20	0.06	10	0.58
21050E 18125N	201	202	< 5	30.00	< 0.2	2.32	2	130	< 0.5	< 2	0.07	< 0.5	6	51	16	3.95	< 10	20	0.06	10	0.57
21050E 18150N	201	202	< 5	30.00	< 0.2	2.24	6	120	< 0.5	< 2	0.08	< 0.5	7	41	16	3.36	< 10	10	0.06	10	0.47
21050E 18175N	201	202	< 5	30.00	< 0.2	2.03	10	140	< 0.5	< 2	0.08	< 0.5	4	37	11	3.55	< 10	20	0.04	10	0.29
21050E 18200N	201	202	< 5	30.00	< 0.2	2.03	6	150	< 0.5	< 2	0.14	< 0.5	5	33	9	3.05	< 10	30	0.06	10	0.47
21050E 18225N	201	202	< 5	30.00	< 0.2	1.32	8	80	< 0.5	< 2	0.08	< 0.5	3	26	8	3.13	< 10	20	0.05	10	0.22
21050E 18250N	201	202	< 5	30.00	< 0.2	1.66	6	100	< 0.5	< 2	0.08	< 0.5	4	27	8	2.95	< 10	40	0.05	10	0.29
21050E 18275N	201	202	< 5	30.00	< 0.2	1.25	4	80	< 0.5	< 2	0.07	< 0.5	3	23	6	2.92	< 10	10	0.03	10	0.22
21050E 18300N	201	202	< 5	30.00	< 0.2	2.09	8	120	< 0.5	< 2	0.13	< 0.5	6	33	12	2.96	< 10	20	0.06	10	0.47
21050E 18325N	201	202	< 5	30.00	< 0.2	1.13	2	140	< 0.5	< 2	0.05	< 0.5	1	15	11	0.81	< 10	40	0.05	10	0.06
21050E 18350N	201	202	< 5	30.00	< 0.2	1.29	4	140	< 0.5	< 2	0.11	< 0.5	2	20	6	2.08	< 10	40	0.05	10	0.20
21050E 18375N	201	202	< 5	30.00	< 0.2	1.42	4	110	< 0.5	< 2	0.09	< 0.5	1	19	4	1.78	< 10	10	0.04	10	0.17
21050E 18400N	201	202	< 5	30.00	< 0.2	2.35	14	140	< 0.5	< 2	0.13	< 0.5	8	33	15	3.47	< 10	20	0.06	10	0.45
21050E 18425N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21050E 18450N	201	202	< 5	30.00	< 0.2	2.56	14	180	< 0.5	< 2	0.18	< 0.5	10	42	15	3.37	< 10	30	0.05	10	0.60
21050E 18475N	201	202	< 5	30.00	< 0.2	1.80	2	120	< 0.5	< 2	0.14	< 0.5	9	30	14	2.80	< 10	20	0.06	10	0.44
21050E 18500N	201	202	< 5	30.00	0.2	1.58	6	260	< 0.5	< 2	0.41	2.0	9	32	30	2.51	< 10	70	0.06	20	0.47
21050E 18525N	201	202	< 5	30.00	1.4	1.50	14	260	0.5	< 2	0.93	13.5	8	53	51	2.16	< 10	400	0.07	30	0.38
21050E 18550N	201	202	< 5	30.00	0.2	1.45	10	170	< 0.5	< 2	0.43	2.0	7	42	25	2.34	< 10	170	0.06	10	0.37
21050E 18575N	201	202	< 5	30.00	1.2	1.46	10	180	< 0.5	< 2	0.32	1.5	5	34	28	2.10	< 10	370	0.05	10	0.31
21050E 18600N	201	202	< 5	30.00	0.8	1.55	10	160	< 0.5	< 2	0.42	0.5	5	37	21	2.32	< 10	150	0.05	10	0.35
21050E 18625N	201	202	< 5	30.00	1.6	1.59	10	240	0.5	< 2	0.32	3.0	6	46	43	2.40	< 10	570	0.05	10	0.36
21050E 18650N	201	202	< 5	30.00	0.8	1.60	6	220	0.5	< 2	0.54	3.5	7	72	33	2.80	< 10	110	0.07	10	0.33

CERTIFICATION: *John B...*



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments : ATTN:RICK DIMENT

Page No : 5-B
 Total Ps : 9
 Certificate No: 25-SEP-97
 Invoice No. : 19740536
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
20950E 19100N	201 202	180	< 1	< 0.01	21	210	10	< 2	4	17	0.06	< 10	< 10	52	< 10	58
20950E 19125N	201 202	240	3	< 0.01	24	270	14	< 2	4	20	0.06	< 10	< 10	70	< 10	76
20950E 19150N	201 202	270	23	< 0.01	41	1170	42	6	4	61	0.04	< 10	< 10	212	< 10	160
20950E 19175N	201 202	285	10	< 0.01	24	1340	30	4	3	47	0.05	< 10	< 10	109	< 10	96
20950E 19200N	201 202	150	10	< 0.01	30	920	38	12	3	73	< 0.01	< 10	< 10	49	< 10	242
20950E 19225N	201 202	155	3	< 0.01	15	1050	18	2	1	45	0.01	< 10	< 10	57	< 10	86
20950E 19250N	201 202	65	3	< 0.01	15	830	24	2	2	144	< 0.01	< 10	< 10	29	< 10	130
20950E 19275N	201 202	400	5	< 0.01	40	1010	154	22	3	66	< 0.01	< 10	< 10	50	< 10	342
20950E 19300N	201 202	270	8	< 0.01	62	840	140	34	3	69	< 0.01	< 10	< 10	43	< 10	564
20950E 19325N	201 202	130	10	< 0.01	32	470	46	8	2	65	< 0.01	< 10	< 10	35	< 10	242
20950E 19350N	201 202	490	8	< 0.01	48	820	54	10	4	84	< 0.01	< 10	< 10	39	< 10	370
20950E 19375N	201 202	385	3	< 0.01	23	630	22	< 2	4	76	< 0.01	< 10	< 10	43	< 10	114
20950E 19400N	201 202	70	3	< 0.01	11	560	16	< 2	< 1	56	0.01	< 10	< 10	34	< 10	56
21050E 18000N	201 202	285	< 1	< 0.01	20	340	12	< 2	5	17	0.07	< 10	< 10	67	< 10	80
21050E 18025N	201 202	250	< 1	< 0.01	19	270	8	< 2	3	13	0.05	< 10	< 10	49	< 10	62
21050E 18050N	201 202	500	< 1	< 0.01	11	390	12	< 2	2	10	0.07	< 10	< 10	64	< 10	54
21050E 18075N	201 202	260	< 1	< 0.01	18	270	10	< 2	4	13	0.07	< 10	< 10	62	< 10	66
21050E 18100N	201 202	210	< 1	< 0.01	16	290	12	< 2	4	13	0.07	< 10	< 10	71	< 10	68
21050E 18125N	201 202	260	< 1	< 0.01	18	350	12	< 2	4	11	0.09	< 10	< 10	77	< 10	66
21050E 18150N	201 202	220	< 1	< 0.01	20	280	12	< 2	4	12	0.06	< 10	< 10	68	< 10	64
21050E 18175N	201 202	180	< 1	< 0.01	9	320	14	< 2	4	13	0.08	< 10	< 10	84	< 10	48
21050E 18200N	201 202	160	< 1	< 0.01	14	280	8	< 2	3	17	0.07	< 10	< 10	67	< 10	54
21050E 18225N	201 202	185	< 1	< 0.01	9	410	8	< 2	2	12	0.06	< 10	< 10	78	< 10	36
21050E 18250N	201 202	185	< 1	< 0.01	10	490	14	< 2	1	11	0.05	< 10	< 10	66	< 10	48
21050E 18275N	201 202	100	< 1	< 0.01	7	340	10	< 2	1	9	0.05	< 10	< 10	63	< 10	34
21050E 18300N	201 202	190	< 1	< 0.01	16	400	10	< 2	3	13	0.05	< 10	< 10	56	< 10	60
21050E 18325N	201 202	35	< 1	< 0.01	4	740	14	< 2	< 1	11	< 0.01	< 10	< 10	27	< 10	14
21050E 18350N	201 202	115	< 1	< 0.01	7	240	14	< 2	1	15	0.06	< 10	< 10	62	< 10	28
21050E 18375N	201 202	70	< 1	< 0.01	5	190	22	< 2	2	13	0.08	< 10	< 10	69	< 10	20
21050E 18400N	201 202	280	< 1	< 0.01	21	260	12	< 2	4	16	0.08	< 10	< 10	69	< 10	74
21050E 18425N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21050E 18450N	201 202	340	< 1	< 0.01	19	510	10	< 2	4	19	0.08	< 10	< 10	68	< 10	72
21050E 18475N	201 202	380	< 1	< 0.01	16	530	10	< 2	4	17	0.06	< 10	< 10	54	< 10	62
21050E 18500N	201 202	405	< 1	< 0.01	56	1330	10	< 2	4	30	0.05	< 10	< 10	114	< 10	350
21050E 18525N	201 202	260	3	< 0.01	181	2340	8	4	4	62	0.04	< 10	< 10	281	< 10	1555
21050E 18550N	201 202	310	1	< 0.01	73	1770	8	< 2	1	31	0.02	< 10	< 10	189	< 10	532
21050E 18575N	201 202	210	1	< 0.01	49	1500	10	< 2	< 1	25	0.01	< 10	< 10	120	< 10	394
21050E 18600N	201 202	260	1	< 0.01	44	1350	8	< 2	< 1	33	< 0.01	< 10	< 10	140	< 10	308
21050E 18625N	201 202	195	1	< 0.01	63	2950	10	2	< 1	32	< 0.01	< 10	< 10	129	< 10	414
21050E 18650N	201 202	280	3	< 0.01	126	3160	8	2	1	33	0.01	< 10	< 10	184	< 10	1100

CERTIFICATION: *Handwritten Signature*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN:RICK DIMENT

Page N :6-A
Total F :9
Certificate Date: 25-SEP-97
Invoice No. :19740536
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS

A9740536

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
21050E 18675N	201	202	< 5	30.00	4.2	1.10	< 2	230	0.5	< 2	0.33	5.5	3	42	31	1.51	< 10	130	0.03	10	0.11
21050E 18700N	201	202	< 5	30.00	0.8	2.34	14	790	0.5	< 2	0.16	< 0.5	11	49	21	3.91	< 10	80	0.04	10	0.58
21050E 18725N	201	202	< 5	30.00	1.2	1.32	6	220	< 0.5	< 2	0.39	1.0	5	33	35	2.16	< 10	160	0.03	10	0.22
21050E 18750N	201	202	< 5	30.00	0.2	1.79	8	170	< 0.5	< 2	0.21	< 0.5	6	34	22	2.67	< 10	130	0.03	10	0.43
21050E 18775N	201	202	< 5	30.00	< 0.2	1.40	10	110	< 0.5	< 2	0.10	0.5	4	27	16	2.20	< 10	120	0.04	10	0.22
21050E 18800N	201	202	< 5	30.00	< 0.2	0.87	12	100	< 0.5	< 2	0.11	0.5	4	18	13	1.67	< 10	40	0.04	10	0.11
21050E 18825N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21050E 18850N	201	202	< 5	15.00	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
21050E 18875N	201	202	< 5	10.00	< 0.2	0.43	< 2	160	< 0.5	< 2	2.27	0.5	3	6	11	0.60	< 10	150	0.02	< 10	0.34
21050E 18900N	201	202	< 5	10.00	0.2	0.58	< 2	310	< 0.5	< 2	3.01	0.5	6	9	22	0.90	< 10	280	0.04	< 10	0.47
21050E 18925N	201	202	< 5	15.00	< 0.2	0.41	< 2	240	< 0.5	< 2	2.92	< 0.5	4	7	15	0.55	< 10	170	0.03	< 10	0.46
21050E 18950N	201	202	15	30.00	0.2	1.69	6	300	< 0.5	< 2	0.26	< 0.5	5	26	18	2.35	< 10	140	0.05	10	0.37
21050E 18975N	201	202	10	30.00	0.4	1.59	12	470	< 0.5	< 2	0.27	< 0.5	6	23	18	2.05	< 10	120	0.10	20	0.41
21050E 19000N	201	202	20	30.00	0.2	1.92	130	620	0.5	< 2	0.10	0.5	7	26	28	2.64	< 10	150	0.09	30	0.23
21050E 19025N	201	202	< 5	30.00	0.2	1.86	12	180	< 0.5	< 2	0.10	< 0.5	7	27	14	2.81	< 10	20	0.08	10	0.34
21050E 19050N	201	202	< 5	30.00	0.2	1.95	80	290	< 0.5	< 2	0.10	< 0.5	6	27	12	2.59	< 10	30	0.07	20	0.31
21050E 19075N	201	202	5	30.00	0.2	2.15	16	310	< 0.5	< 2	0.08	< 0.5	9	30	20	3.50	< 10	10	0.08	20	0.34
21050E 19100N	201	202	< 5	30.00	0.2	2.48	16	260	0.5	< 2	0.10	< 0.5	7	35	13	3.23	< 10	110	0.07	20	0.37
21050E 19125N	201	202	< 5	30.00	< 0.2	1.07	16	160	< 0.5	< 2	0.07	< 0.5	3	20	9	2.04	< 10	150	0.05	20	0.17
21050E 19150N	201	202	10	30.00	4.2	1.25	2	230	0.5	< 2	0.35	6.0	3	51	32	1.61	< 10	130	0.04	10	0.13
21050E 19175N	201	202	10	30.00	0.4	1.56	42	370	< 0.5	< 2	0.04	< 0.5	5	23	21	3.20	< 10	120	0.08	20	0.20
21050E 19200N	201	202	5	30.00	0.4	1.07	42	450	< 0.5	< 2	0.02	< 0.5	4	15	22	2.72	< 10	40	0.08	20	0.08
21050E 19225N	201	202	5	30.00	0.2	0.79	36	700	< 0.5	< 2	0.02	< 0.5	3	13	35	2.45	< 10	30	0.09	30	0.07
21050E 19250N	201	202	10	30.00	1.0	0.87	22	910	< 0.5	< 2	0.03	< 0.5	1	11	56	1.82	< 10	110	0.09	20	0.05
21050E 19275N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21050E 19300N	201	202	50	15.00	1.6	1.62	66	1250	1.5	< 2	0.03	7.0	10	22	77	3.11	< 10	530	0.14	50	0.09
21050E 19325N	201	202	10	30.00	0.8	1.03	18	420	< 0.5	< 2	0.85	10.0	5	15	40	2.39	< 10	140	0.12	10	0.26
21050E 19350N	201	202	< 5	30.00	< 0.2	1.19	8	460	< 0.5	< 2	0.15	1.0	4	18	14	2.63	< 10	10	0.09	10	0.20
21050E 19375N	201	202	< 5	15.00	0.4	0.79	< 2	240	< 0.5	< 2	2.12	34.5	3	8	32	0.90	< 10	100	0.04	< 10	0.23
21050E 19400N	201	202	< 5	15.00	0.2	1.11	6	720	< 0.5	< 2	0.44	6.0	10	18	26	2.71	< 10	50	0.12	30	0.28
21150E 18000N	201	202	< 5	30.00	0.2	2.24	4	250	< 0.5	< 2	0.10	< 0.5	9	31	14	2.85	< 10	30	0.05	10	0.38
21150E 18025N	201	202	< 5	30.00	< 0.2	2.04	6	170	< 0.5	< 2	0.08	< 0.5	6	32	12	2.91	< 10	20	0.04	10	0.43
21150E 18050N	201	202	< 5	30.00	< 0.2	1.96	6	200	< 0.5	< 2	0.08	< 0.5	5	28	9	2.55	< 10	20	0.04	10	0.32
21150E 18075N	201	202	< 5	30.00	< 0.2	1.70	8	110	< 0.5	< 2	0.07	< 0.5	5	33	12	3.30	< 10	20	0.06	10	0.39
21150E 18100N	201	202	< 5	30.00	< 0.2	2.25	2	120	< 0.5	< 2	0.09	< 0.5	7	40	12	3.56	< 10	30	0.05	10	0.46
21150E 18125N	201	202	< 5	30.00	< 0.2	2.08	4	130	< 0.5	< 2	0.13	< 0.5	6	32	12	2.77	< 10	30	0.04	10	0.45
21150E 18150N	201	202	< 5	30.00	< 0.2	2.02	6	140	< 0.5	< 2	0.12	< 0.5	9	33	17	3.05	< 10	30	0.05	10	0.52
21150E 18175N	201	202	< 5	30.00	< 0.2	1.89	2	110	< 0.5	< 2	0.14	< 0.5	5	30	9	2.70	< 10	30	0.04	10	0.44
21150E 18200N	201	202	< 5	30.00	< 0.2	2.20	2	160	< 0.5	< 2	0.08	< 0.5	10	46	18	3.45	< 10	10	0.05	10	0.56
21150E 18225N	201	202	< 5	30.00	< 0.2	1.16	4	80	< 0.5	< 2	0.07	< 0.5	1	25	5	1.76	< 10	40	0.03	10	0.17

CERTIFICATION:

Barbara Miller



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

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 DAWSON CITY, YT
 YOB 1G0

Page 1 : 6-B
 Total : 9
 Certificate Date : 25-SEP-97
 Invoice No. : 19740536
 P.O. Number :
 Account : OQN

Project :
 Comments : ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21050E 18675N	201	202	60	2 < 0.01		50	1860	10	< 2	< 1	22	< 0.01	< 10	< 10	89	< 10	326
21050E 18700N	201	202	290	< 1 < 0.01		36	1050	6	< 2	4	16	0.04	< 10	< 10	80	< 10	116
21050E 18725N	201	202	120	2 < 0.01		43	1530	8	2	< 1	20	0.01	< 10	< 10	86	< 10	152
21050E 18750N	201	202	165	< 1 < 0.01		35	1030	10	2	2	14	0.02	< 10	< 10	91	< 10	128
21050E 18775N	201	202	155	8 < 0.01		31	810	10	2	1	10	0.01	< 10	< 10	167	< 10	222
21050E 18800N	201	202	125	6 < 0.01		24	470	10	2	< 1	10	0.02	< 10	< 10	117	< 10	154
21050E 18825N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21050E 18850N	201	202	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
21050E 18875N	201	202	65	1 < 0.01		9	940	2	< 2	1	64	0.01	< 10	< 10	11	< 10	34
21050E 18900N	201	202	380	1 < 0.01		19	930	6	2	4	82	< 0.01	< 10	< 10	22	< 10	40
21050E 18925N	201	202	445	2 < 0.01		13	1080	2	2	1	74	< 0.01	< 10	< 10	14	< 10	40
21050E 18950N	201	202	140	< 1 < 0.01		20	620	12	16	3	28	0.02	< 10	< 10	55	< 10	86
21050E 18975N	201	202	170	1 < 0.01		18	700	10	6	3	43	0.01	< 10	< 10	35	< 10	60
21050E 19000N	201	202	240	< 1 < 0.01		22	580	42	10	3	26	0.01	< 10	< 10	43	< 10	64
21050E 19025N	201	202	330	< 1 < 0.01		15	320	14	< 2	3	17	0.04	< 10	< 10	49	< 10	62
21050E 19050N	201	202	305	< 1 < 0.01		14	240	14	< 2	3	29	0.04	< 10	< 10	48	< 10	66
21050E 19075N	201	202	255	< 1 < 0.01		23	320	16	< 2	4	44	0.02	< 10	< 10	50	< 10	82
21050E 19100N	201	202	270	< 1 < 0.01		17	320	18	< 2	4	25	0.05	< 10	< 10	59	< 10	86
21050E 19125N	201	202	130	< 1 < 0.01		9	390	18	2	1	26	0.03	< 10	< 10	50	< 10	46
21050E 19150N	201	202	60	2 < 0.01		51	2030	8	< 2	< 1	24	< 0.01	< 10	< 10	106	< 10	376
21050E 19175N	201	202	195	5 < 0.01		18	450	30	8	3	29	0.01	< 10	< 10	64	< 10	134
21050E 19200N	201	202	170	8 < 0.01		20	370	32	8	2	33	< 0.01	< 10	< 10	54	< 10	134
21050E 19225N	201	202	75	9 < 0.01		18	400	30	8	2	45	< 0.01	< 10	< 10	57	< 10	138
21050E 19250N	201	202	30	7 < 0.01		12	690	30	6	2	71	< 0.01	< 10	< 10	35	< 10	80
21050E 19275N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21050E 19300N	201	202	350	6 < 0.01		47	1040	54	12	6	53	< 0.01	< 10	< 10	53	< 10	218
21050E 19325N	201	202	120	5 < 0.01		62	650	18	4	3	235	< 0.01	< 10	< 10	54	< 10	152
21050E 19350N	201	202	125	3 < 0.01		16	300	16	2	2	43	0.01	< 10	< 10	60	< 10	100
21050E 19375N	201	202	105	1 < 0.01		67	980	4	2	2	334	< 0.01	< 10	< 10	13	< 10	76
21050E 19400N	201	202	140	2 < 0.01		49	610	20	< 2	4	105	< 0.01	< 10	< 10	36	< 10	244
21150E 18000N	201	202	320	< 1 < 0.01		16	390	10	< 2	3	15	0.04	< 10	< 10	62	< 10	84
21150E 18025N	201	202	225	< 1 < 0.01		14	230	10	< 2	3	11	0.05	< 10	< 10	54	< 10	64
21150E 18050N	201	202	265	< 1 < 0.01		12	260	8	< 2	3	12	0.04	< 10	< 10	54	< 10	74
21150E 18075N	201	202	210	< 1 < 0.01		17	260	8	< 2	3	12	0.05	< 10	< 10	63	< 10	58
21150E 18100N	201	202	250	< 1 < 0.01		16	270	10	< 2	4	11	0.05	< 10	< 10	58	< 10	52
21150E 18125N	201	202	190	< 1 < 0.01		16	410	10	< 2	3	13	0.05	< 10	< 10	52	< 10	50
21150E 18150N	201	202	310	< 1 < 0.01		23	320	10	< 2	4	13	0.05	< 10	< 10	51	< 10	64
21150E 18175N	201	202	155	< 1 < 0.01		14	420	10	< 2	3	12	0.04	< 10	< 10	47	< 10	50
21150E 18200N	201	202	255	< 1 < 0.01		30	360	10	< 2	4	13	0.05	< 10	< 10	56	< 10	70
21150E 18225N	201	202	50	< 1 < 0.01		6	880	12	< 2	< 1	10	0.01	< 10	< 10	37	< 10	18

CERTIFICATION:

Handwritten signature



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page No. : 7-A
 Total Pt : 9
 Certificate Date: 25-SEP-97
 Invoice No. : 19740536
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Project :
 Comments: ATTN:RICK DIMENT

CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE		Au ppb fusion	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
21150E 18250N	201	202	< 5 30.00	< 0.2	1.98	< 2	140	< 0.5	< 2	0.09	< 0.5	3	30	8	2.20	< 10	50	0.04	10	0.29
21150E 18275N	201	202	< 5 30.00	< 0.2	1.48	2	100	< 0.5	< 2	0.09	< 0.5	2	23	6	1.93	< 10	30	0.03	10	0.21
21150E 18300N	201	202	< 5 30.00	< 0.2	1.99	6	120	< 0.5	< 2	0.08	< 0.5	7	33	14	4.02	< 10	20	0.07	10	0.43
21150E 18325N	201	202	< 5 30.00	< 0.2	1.55	6	100	< 0.5	< 2	0.05	< 0.5	3	22	8	3.20	< 10	20	0.05	10	0.18
21150E 18350N	201	202	< 5 30.00	< 0.2	2.25	< 2	140	< 0.5	< 2	0.09	< 0.5	6	32	12	3.45	< 10	40	0.04	10	0.36
21150E 18375N	201	202	< 5 30.00	< 0.2	1.81	8	130	< 0.5	< 2	0.08	< 0.5	5	26	9	3.31	< 10	40	0.03	10	0.31
21150E 18400N	201	202	< 5 30.00	< 0.2	2.02	8	120	< 0.5	< 2	0.10	< 0.5	11	28	15	2.68	< 10	20	0.04	10	0.47
21150E 18425N	201	202	< 5 30.00	< 0.2	1.44	6	80	< 0.5	< 2	0.06	< 0.5	4	26	9	3.06	< 10	30	0.03	10	0.29
21150E 18450N	201	202	< 5 30.00	< 0.2	1.74	8	110	< 0.5	< 2	0.05	< 0.5	8	21	17	2.54	< 10	20	0.03	10	0.27
21150E 18475N	201	202	< 5 30.00	< 0.2	1.87	10	120	< 0.5	< 2	0.07	< 0.5	5	25	11	3.33	< 10	20	0.03	10	0.29
21150E 18500N	201	202	< 5 30.00	< 0.2	1.73	6	130	< 0.5	< 2	0.08	< 0.5	5	26	12	4.24	< 10	20	0.03	10	0.29
21150E 18525N	201	202	< 5 30.00	< 0.2	1.31	6	90	< 0.5	< 2	0.06	< 0.5	3	17	11	2.28	< 10	10	0.03	10	0.14
21150E 18550N	201	202	< 5 30.00	< 0.2	1.82	8	110	< 0.5	< 2	0.09	< 0.5	4	28	10	3.05	< 10	20	0.05	10	0.33
21150E 18575N	201	202	< 5 30.00	< 0.2	1.78	6	110	< 0.5	< 2	0.10	< 0.5	4	30	15	3.13	< 10	30	0.04	10	0.28
21150E 18600N	201	202	5 30.00	< 0.2	1.99	10	110	< 0.5	< 2	0.15	< 0.5	8	31	17	3.01	< 10	30	0.04	10	0.49
21150E 18625N	201	202	< 5 15.00	< 0.2	1.31	12	90	< 0.5	< 2	0.09	< 0.5	4	39	17	2.74	< 10	80	0.04	10	0.27
21150E 18650N	201	202	< 5 30.00	< 0.2	1.42	10	90	< 0.5	< 2	0.11	< 0.5	4	27	12	2.59	< 10	40	0.05	10	0.33
21150E 18675N	201	202	< 5 30.00	0.6	1.88	10	140	< 0.5	< 2	0.13	1.0	5	55	19	3.43	< 10	40	0.04	10	0.37
21150E 18700N	201	202	< 5 30.00	0.2	1.24	6	140	< 0.5	< 2	0.33	1.0	5	70	33	2.49	< 10	90	0.07	10	0.26
21150E 18725N	201	202	< 5 30.00	0.4	1.81	2	230	< 0.5	< 2	0.26	1.5	3	55	20	2.04	< 10	70	0.04	10	0.20
21150E 18750N	201	202	< 5 15.00	1.0	1.12	8	190	< 0.5	< 2	0.43	0.5	8	38	23	2.18	< 10	200	0.07	20	0.17
21150E 18775N	201	202	10 30.00	4.4	0.87	20	190	0.5	< 2	1.79	2.0	9	69	114	2.33	< 10	1220	0.07	20	0.23
21150E 18800N	201	202	5 30.00	1.0	0.87	10	140	< 0.5	< 2	1.24	0.5	6	27	23	1.76	< 10	200	0.03	10	0.26
21150E 18825N	201	202	5 30.00	2.8	0.74	14	160	0.5	< 2	2.76	3.0	5	35	66	1.38	< 10	1000	0.04	10	0.28
21150E 18850N	201	202	10 15.00	1.8	0.65	6	160	< 0.5	< 2	3.42	4.0	3	21	63	0.86	< 10	970	0.03	< 10	0.34
21150E 18875N	201	202	< 5 15.00	< 0.2	0.40	< 2	110	< 0.5	< 2	4.31	13.5	2	8	30	0.44	< 10	380	0.02	< 10	0.43
21150E 18900N	201	202	10 30.00	0.4	1.90	10	380	< 0.5	< 2	0.33	0.5	8	31	23	2.20	< 10	310	0.07	10	0.38
21150E 18925N	201	202	10 30.00	0.2	1.60	< 2	350	< 0.5	< 2	0.19	< 0.5	6	22	19	2.41	< 10	100	0.08	10	0.32
21150E 18950N	201	202	< 5 30.00	0.4	2.03	2	1020	0.5	< 2	0.42	< 0.5	10	23	27	2.98	< 10	180	0.18	30	0.41
21150E 18975N	201	202	< 5 30.00	< 0.2	1.54	6	300	0.5	< 2	0.11	< 0.5	5	22	18	2.27	< 10	50	0.08	20	0.30
21150E 19000N	201	202	< 5 30.00	< 0.2	2.52	12	230	< 0.5	< 2	0.10	< 0.5	8	34	12	2.92	< 10	30	0.06	10	0.41
21150E 19025N	201	202	< 5 30.00	< 0.2	2.28	14	200	< 0.5	< 2	0.09	< 0.5	8	33	14	2.97	< 10	50	0.06	10	0.45
21150E 19050N	201	202	< 5 30.00	0.2	2.69	6	300	0.5	< 2	0.10	< 0.5	10	38	16	3.20	< 10	20	0.06	10	0.45
21150E 19075N	201	202	< 5 30.00	< 0.2	1.46	6	180	< 0.5	< 2	0.05	< 0.5	5	18	10	2.49	< 10	10	0.05	20	0.19
21150E 19100N	201	202	35 30.00	0.2	0.64	84	490	< 0.5	< 2	< 0.01	< 0.5	5	9	16	2.50	< 10	50	0.11	30	0.04
21150E 19125N	201	202	< 5 30.00	0.2	0.55	82	650	< 0.5	< 2	0.01	< 0.5	2	13	17	2.01	< 10	20	0.09	10	0.03
21150E 19150N	201	202	10 30.00	0.2	0.72	120	750	< 0.5	2	0.01	< 0.5	3	15	23	2.94	< 10	60	0.10	10	0.04
21150E 19175N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21150E 19200N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21150E 19225N	201	202	< 5 30.00	0.2	2.32	10	390	< 0.5	< 2	0.09	1.5	10	35	19	4.15	< 10	20	0.10	20	0.54

CERTIFICATION: *Paul B...*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN:RICK DIMENT

Page No : 7-B
Total P : 9
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CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21150E 18250N	201 202	85	< 1 < 0.01		12	350	14 < 2		1	12	0.03	< 10 < 10		60 < 10		36
21150E 18275N	201 202	75	< 1 < 0.01		7	360	12 < 2		1	11	0.04	< 10 < 10		53 < 10		26
21150E 18300N	201 202	295	< 1 < 0.01		18	460	10 < 2		3	12	0.06	< 10 < 10		78 < 10		78
21150E 18325N	201 202	185	< 1 < 0.01		8	440	12 < 2		1	9	0.05	< 10 < 10		74 < 10		42
21150E 18350N	201 202	260	< 1 < 0.01		12	340	12 < 2		3	10	0.05	< 10 < 10		59 < 10		54
21150E 18375N	201 202	170	< 1 < 0.01		11	330	12 < 2		2	9	0.05	< 10 < 10		64 < 10		54
21150E 18400N	201 202	280	< 1 < 0.01		22	330	10 < 2		3	10	0.04	< 10 < 10		42 < 10		78
21150E 18425N	201 202	175	< 1 < 0.01		11	320	12 < 2		1	8	0.04	< 10 < 10		56 < 10		44
21150E 18450N	201 202	175	< 1 < 0.01		22	380	8 < 2		2	10	0.03	< 10 < 10		32 < 10		70
21150E 18475N	201 202	170	< 1 < 0.01		14	290	12 < 2		2	9	0.05	< 10 < 10		61 < 10		60
21150E 18500N	201 202	210	< 1 < 0.01		12	380	12 < 2		3	11	0.06	< 10 < 10		75 < 10		48
21150E 18525N	201 202	145	< 1 < 0.01		10	250	8 < 2		1	9	0.04	< 10 < 10		50 < 10		44
21150E 18550N	201 202	185	< 1 < 0.01		12	270	10 < 2		3	12	0.07	< 10 < 10		69 < 10		52
21150E 18575N	201 202	165	< 1 < 0.01		11	540	14 < 2		1	14	0.06	< 10 < 10		74 < 10		42
21150E 18600N	201 202	305	< 1 < 0.01		22	610	10 < 2		3	14	0.06	< 10 < 10		58 < 10		90
21150E 18625N	201 202	215	2 < 0.01		41	1010	12 < 6	< 1	12	0.01	< 10 < 10		210 < 10		208	
21150E 18650N	201 202	165	1 < 0.01		14	390	10 < 2		1	16	0.03	< 10 < 10		72 < 10		60
21150E 18675N	201 202	245	1 < 0.01		34	2470	12 < 2		3	19	0.04	< 10 < 10		224 < 10		428
21150E 18700N	201 202	125	6 < 0.01		98	2840	10 < 4		1	28	0.02	< 10 < 10		190 < 10		466
21150E 18725N	201 202	110	1 < 0.01		37	2610	10 < 2		1	19	0.02	< 10 < 10		126 < 10		310
21150E 18750N	201 202	415	1 < 0.01		55	2470	14 < 2	< 1	25	0.01	< 10 < 10		85 < 10		248	
21150E 18775N	201 202	310	4 < 0.01		212	6160	10 < 12		3	73	0.01	< 10 < 10		123 < 10		768
21150E 18800N	201 202	335	1 < 0.01		43	2040	10 < 2	< 1	35	< 0.01	< 10 < 10		75 < 10		238	
21150E 18825N	201 202	290	8 < 0.01		86	3010	8 < 8	< 1	66	< 0.01	< 10 < 10		115 < 10		376	
21150E 18850N	201 202	295	3 < 0.01		57	1830	2 < 4	< 1	66	< 0.01	< 10 < 10		105 < 10		198	
21150E 18875N	201 202	305	3 < 0.01		29	1330	< 2 < 4	< 1	68	0.01	< 10 < 10		56 < 10		236	
21150E 18900N	201 202	265	2 < 0.01		25	1120	10 < 32		1	30	0.01	< 10 < 10		101 < 10		160
21150E 18925N	201 202	220	< 1 < 0.01		15	730	12 < 2		1	22	0.01	< 10 < 10		39 < 10		52
21150E 18950N	201 202	375	1 < 0.01		22	770	20 < 2		4	59	< 0.01	< 10 < 10		37 < 10		60
21150E 18975N	201 202	165	< 1 < 0.01		14	530	16 < 2		1	26	0.02	< 10 < 10		42 < 10		60
21150E 19000N	201 202	250	< 1 < 0.01		16	210	12 < 2		4	19	0.06	< 10 < 10		58 < 10		64
21150E 19025N	201 202	260	< 1 < 0.01		19	180	14 < 2		4	16	0.05	< 10 < 10		51 < 10		64
21150E 19050N	201 202	420	< 1 < 0.01		19	250	14 < 2		5	14	0.06	< 10 < 10		61 < 10		82
21150E 19075N	201 202	225	< 1 < 0.01		14	220	10 < 2		2	16	0.03	< 10 < 10		44 < 10		52
21150E 19100N	201 202	160	5 < 0.01		17	360	32 < 10		1	75	< 0.01	< 10 < 10		22 < 10		96
21150E 19125N	201 202	60	10 < 0.01		14	520	28 < 8		1	83	< 0.01	< 10 < 10		45 < 10		92
21150E 19150N	201 202	105	9 < 0.01		20	610	50 < 14		1	85	< 0.01	< 10 < 10		68 < 10		134
21150E 19175N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21150E 19200N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21150E 19225N	201 202	350	1 < 0.01		25	440	18 < 2		4	28	0.04	< 10 < 10		72 < 10		176

CERTIFICATION: *Jan B...*



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

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CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	
			FA+AA wt. gm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	
21150E 19250N	201	202	< 5	30.00	0.6	1.55	14	740	< 0.5	< 2	0.03	< 0.5	4	16	19	2.25	< 10	20	0.13	20	0.16	
21150E 19275N	201	202	< 5	30.00	1.0	0.74	50	940	0.5	< 2	0.03	3.0	11	26	61	3.50	< 10	60	0.14	40	0.08	
21150E 19300N	201	202	< 5	30.00	1.0	0.74	42	290	0.5	< 2	0.02	2.5	12	12	68	5.85	< 10	90	0.29	30	0.04	
21150E 19325N	201	202	< 5	30.00	0.2	0.94	40	620	< 0.5	< 2	0.02	0.5	7	21	27	3.41	< 10	20	0.10	30	0.05	
21150E 19350N	201	202	< 5	30.00	< 0.2	0.82	20	520	< 0.5	< 2	0.01	< 0.5	7	12	23	2.33	< 10	10	0.10	30	0.04	
21150E 19375N	201	202	< 5	30.00	1.2	2.22	28	610	0.5	< 2	0.06	< 0.5	9	27	65	4.35	< 10	120	0.15	20	0.26	
21250E 18000N	201	202	< 5	30.00	< 0.2	1.85	2	140	< 0.5	< 2	0.09	< 0.5	3	27	8	3.06	< 10	30	0.03	10	0.26	
21250E 18025N	201	202	< 5	30.00	< 0.2	1.87	6	120	< 0.5	< 2	0.12	< 0.5	7	29	13	2.68	< 10	30	0.04	10	0.41	
21250E 18050N	201	202	< 5	30.00	< 0.2	1.07	< 2	120	< 0.5	< 2	0.05	< 0.5	< 1	16	4	1.11	< 10	60	0.03	10	0.07	
21250E 18075N	201	202	< 5	30.00	< 0.2	1.29	6	160	< 0.5	< 2	0.05	< 0.5	2	16	15	1.97	< 10	40	0.05	10	0.14	
21250E 18100N	201	202	< 5	30.00	< 0.2	1.90	4	140	< 0.5	< 2	0.10	< 0.5	8	25	14	2.44	< 10	40	0.05	10	0.35	
21250E 18125N	201	202	< 5	30.00	< 0.2	1.23	< 2	120	< 0.5	< 2	0.04	< 0.5	< 1	16	7	0.95	< 10	50	0.04	10	0.08	
21250E 18150N	201	202	< 5	30.00	< 0.2	1.58	< 2	90	< 0.5	< 2	0.12	< 0.5	3	28	7	2.21	< 10	30	0.04	10	0.33	
21250E 18175N	201	202	< 5	30.00	< 0.2	2.15	< 2	110	< 0.5	< 2	0.14	< 0.5	6	35	8	3.13	< 10	30	0.05	10	0.42	
21250E 18200N	201	202	< 5	30.00	< 0.2	1.99	6	130	< 0.5	< 2	0.14	< 0.5	4	31	13	2.30	< 10	50	0.06	10	0.40	
21250E 18225N	201	202	< 5	30.00	< 0.2	1.46	2	120	< 0.5	< 2	0.10	< 0.5	3	23	10	1.94	< 10	50	0.05	10	0.25	
21250E 18250N	201	202	< 5	15.00	< 0.2	1.18	4	140	< 0.5	< 2	0.07	< 0.5	< 1	18	11	1.23	< 10	80	0.04	10	0.08	
21250E 18275N	201	202	< 5	30.00	< 0.2	1.65	6	150	< 0.5	< 2	0.14	< 0.5	5	27	9	2.34	< 10	50	0.09	10	0.34	
21250E 18300N	201	202	< 5	15.00	< 0.2	1.34	< 2	250	< 0.5	< 2	0.15	< 0.5	4	21	19	1.64	< 10	70	0.05	10	0.18	
21250E 18325N	201	202	< 5	30.00	< 0.2	2.07	2	160	< 0.5	< 2	0.13	< 0.5	6	34	14	3.17	< 10	40	0.08	10	0.45	
21250E 18350N	201	202	< 5	15.00	0.4	1.01	2	280	< 0.5	< 2	0.14	0.5	3	15	21	1.43	< 10	70	0.05	10	0.10	
21250E 18375N	201	202	< 5	30.00	0.2	1.79	12	210	< 0.5	< 2	0.10	< 0.5	4	27	12	2.71	< 10	40	0.06	10	0.27	
21250E 18400N	201	202	< 5	15.00	0.6	1.08	2	320	0.5	< 2	0.20	1.0	5	9	24	1.03	< 10	100	0.04	< 10	0.07	
21250E 18425N	201	202	< 5	30.00	< 0.2	1.78	10	110	< 0.5	< 2	0.08	< 0.5	6	27	12	3.01	< 10	30	0.04	10	0.36	
21250E 18450N	201	202	< 5	30.00	< 0.2	1.53	< 2	140	< 0.5	< 2	0.13	< 0.5	7	26	16	2.48	< 10	20	0.05	10	0.41	
21250E 18475N	201	202	< 5	30.00	< 0.2	1.42	< 2	190	< 0.5	< 2	0.08	< 0.5	3	21	14	1.50	< 10	110	0.06	10	0.12	
21250E 18500N	201	202	< 5	30.00	< 0.2	1.52	2	220	< 0.5	< 2	0.14	< 0.5	5	23	21	2.57	< 10	50	0.04	10	0.18	
21250E 18525N	201	202	< 5	30.00	0.2	0.82	< 2	310	< 0.5	< 2	0.12	0.5	2	14	21	1.01	< 10	70	0.03	< 10	0.03	
21250E 18550N	201	202	< 5	30.00	< 0.2	1.33	< 2	160	< 0.5	< 2	0.09	< 0.5	2	21	6	2.72	< 10	30	0.04	10	0.17	
21250E 18575N	201	202	< 5	30.00	< 0.2	1.93	8	330	< 0.5	< 2	0.27	< 0.5	7	31	17	3.38	< 10	70	0.07	10	0.42	
21250E 18600N	201	202	< 5	30.00	< 0.2	2.28	8	120	< 0.5	< 2	0.12	< 0.5	9	36	18	4.25	< 10	30	0.06	10	0.48	
21250E 18625N	201	202	< 5	30.00	< 0.2	2.28	12	130	< 0.5	< 2	0.14	< 0.5	10	33	21	3.26	< 10	40	0.06	10	0.47	
21250E 18650N	201	202	< 5	30.00	< 0.2	0.88	6	70	< 0.5	< 2	0.05	< 0.5	1	13	7	1.88	< 10	20	0.04	20	0.10	
21250E 18675N	201	202	< 5	30.00	< 0.2	0.87	< 2	180	< 0.5	< 2	0.13	< 0.5	2	16	16	1.53	< 10	70	0.04	10	0.09	
21250E 18700N	201	202	< 5	30.00	< 0.2	1.44	16	90	< 0.5	< 2	0.08	< 0.5	7	21	21	2.50	< 10	30	0.04	10	0.31	
21250E 18725N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21250E 18750N	201	202	< 5	15.00	< 0.2	1.27	8	160	< 0.5	< 2	0.09	1.5	6	25	22	2.02	< 10	130	0.06	10	0.25	
21250E 18775N	201	202	< 5	15.00	0.2	0.95	8	240	< 0.5	< 2	0.36	13.0	3	40	54	1.33	< 10	480	0.07	10	0.17	
21250E 18800N	201	202	< 5	30.00	0.2	1.63	8	340	< 0.5	< 2	0.50	4.5	5	39	38	2.25	< 10	290	0.07	10	0.43	
21250E 18825N	201	202	< 5	30.00	< 0.2	1.71	4	150	< 0.5	< 2	0.13	< 0.5	5	29	21	2.34	< 10	60	0.07	10	0.41	

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN:RICK DIMENT

Page N : 8-B
Total F : 9
Certificate Date: 25-SEP-97
Invoice No. : 19740536
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9740536

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21150E 19250N	201 202	85	5 < 0.01		17	290	20	6	2	40 < 0.01	< 10	< 10		68 < 10		154
21150E 19275N	201 202	195	12 < 0.01		46	550	58	18	7	81 < 0.01	< 10	< 10		78 < 10		438
21150E 19300N	201 202	100	16 0.01		82	720	30	10	6	79 < 0.01	< 10	< 10		78 < 10		892
21150E 19325N	201 202	95	9 < 0.01		42	490	40	8	3	57 < 0.01	< 10	< 10		87 < 10		342
21150E 19350N	201 202	75	9 < 0.01		43	570	16	6	1	36 < 0.01	< 10	< 10		71 < 10		314
21150E 19375N	201 202	305	8 < 0.01		39	620	46	6	5	61 0.01	< 10	< 10		75 < 10		310
21250E 18000N	201 202	155	< 1 < 0.01		8	510	12 < 2		1	11 0.05	< 10	< 10		65 < 10		38
21250E 18025N	201 202	190	< 1 < 0.01		18	380	8 < 2		3	12 0.04	< 10	< 10		44 < 10		72
21250E 18050N	201 202	30	< 1 < 0.01		4	350	16 < 2		< 1	13 0.03	< 10	< 10		41 < 10		16
21250E 18075N	201 202	85	1 < 0.01		8	680	10 < 2		< 1	11 < 0.01	< 10	< 10		41 < 10		32
21250E 18100N	201 202	305	< 1 < 0.01		15	370	10 < 2		2	12 0.03	< 10	< 10		41 < 10		52
21250E 18125N	201 202	30	< 1 < 0.01		4	730	12 < 2		< 1	10 < 0.01	< 10	< 10		28 < 10		12
21250E 18150N	201 202	100	< 1 < 0.01		12	280	10 < 2		1	13 0.05	< 10	< 10		52 < 10		38
21250E 18175N	201 202	210	< 1 < 0.01		15	280	10 < 2		3	15 0.07	< 10	< 10		65 < 10		54
21250E 18200N	201 202	120	< 1 < 0.01		13	490	10 < 2		1	15 0.04	< 10	< 10		54 < 10		50
21250E 18225N	201 202	85	< 1 < 0.01		10	550	10 < 2		< 1	14 0.02	< 10	< 10		44 < 10		34
21250E 18250N	201 202	25	< 1 < 0.01		5	1080	12 < 2		< 1	14 < 0.01	< 10	< 10		29 < 10		12
21250E 18275N	201 202	200	< 1 < 0.01		12	390	12 < 2		1	15 0.03	< 10	< 10		54 < 10		52
21250E 18300N	201 202	90	1 0.01		12	750	10 < 2		< 1	23 < 0.01	< 10	< 10		37 < 10		34
21250E 18325N	201 202	205	< 1 < 0.01		19	400	12 < 2		4	15 0.07	< 10	< 10		69 < 10		70
21250E 18350N	201 202	205	< 1 < 0.01		12	710	10 < 2		< 1	20 < 0.01	< 10	< 10		35 < 10		46
21250E 18375N	201 202	165	< 1 < 0.01		10	770	16 < 2		1	15 0.05	< 10	< 10		76 < 10		42
21250E 18400N	201 202	495	< 1 < 0.01		13	1740	10 < 2		< 1	28 < 0.01	< 10	< 10		19 < 10		36
21250E 18425N	201 202	235	< 1 < 0.01		15	400	10 < 2		3	11 0.05	< 10	< 10		60 < 10		66
21250E 18450N	201 202	205	< 1 < 0.01		18	750	10 < 2		2	14 0.03	< 10	< 10		46 < 10		66
21250E 18475N	201 202	80	1 < 0.01		7	1080	14 < 2		< 1	16 0.01	< 10	< 10		34 < 10		28
21250E 18500N	201 202	150	1 < 0.01		11	1140	20 < 2		< 1	19 0.01	< 10	< 10		48 < 10		36
21250E 18525N	201 202	75	< 1 < 0.01		10	840	8 < 2		< 1	19 < 0.01	< 10	< 10		26 < 10		24
21250E 18550N	201 202	100	< 1 < 0.01		6	420	14 < 2		< 1	13 0.04	< 10	< 10		63 < 10		36
21250E 18575N	201 202	340	< 1 < 0.01		20	440	12 < 2		3	33 0.05	< 10	< 10		63 < 10		64
21250E 18600N	201 202	395	< 1 < 0.01		22	430	12 2		4	14 0.07	< 10	< 10		64 < 10		80
21250E 18625N	201 202	340	< 1 < 0.01		24	470	10 < 2		4	15 0.05	< 10	< 10		51 < 10		82
21250E 18650N	201 202	90	< 1 < 0.01		5	250	8 < 2		1	10 0.04	< 10	< 10		42 < 10		20
21250E 18675N	201 202	100	< 1 < 0.01		8	610	8 < 2		< 1	19 0.03	< 10	< 10		42 < 10		26
21250E 18700N	201 202	235	< 1 < 0.01		18	430	8 < 2		2	10 0.03	< 10	< 10		44 < 10		60
21250E 18725N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21250E 18750N	201 202	170	< 1 < 0.01		23	1000	10 2		< 1	22 0.01	< 10	< 10		106 < 10		106
21250E 18775N	201 202	100	6 < 0.01		61	1470	8 8		< 1	46 < 0.01	< 10	< 10		279 < 10		354
21250E 18800N	201 202	170	3 < 0.01		58	1450	10 8		< 1	39 0.01	< 10	< 10		185 < 10		384
21250E 18825N	201 202	150	< 1 < 0.01		19	570	8 2		3	20 0.04	< 10	< 10		69 < 10		94

CERTIFICATION:

Paul Bechler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN:RICK DIMENT

Page N :9-A
 Total P. :9
 Certificate Date: 25-SEP-97
 Invoice No. :19740536
 P.O. Number :
 Account :OQN

CERTIFICATE OF ANALYSIS

A9740536

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
21250E 18850N	201	202	< 5	30.00	< 0.2	1.87	10	140	< 0.5	< 2	0.14	< 0.5	6	29	15	2.58	< 10	50	0.05	10	0.42
21250E 18875N	201	202	< 5	30.00	< 0.2	2.50	6	210	0.5	< 2	0.09	< 0.5	8	31	18	3.19	< 10	10	0.07	10	0.38
21250E 18900N	201	202	< 5	30.00	< 0.2	2.54	< 2	250	< 0.5	< 2	0.08	< 0.5	9	28	15	3.35	< 10	20	0.06	10	0.30
21250E 18925N	201	202	< 5	30.00	0.2	2.47	8	190	< 0.5	< 2	0.08	< 0.5	8	31	16	3.47	< 10	20	0.06	10	0.41
21250E 18950N	201	202	< 5	30.00	< 0.2	2.73	2	280	0.5	< 2	0.09	< 0.5	13	34	20	3.34	< 10	30	0.09	20	0.40
21250E 18975N	201	202	< 5	30.00	< 0.2	2.83	12	200	< 0.5	< 2	0.13	< 0.5	8	38	18	3.34	< 10	40	0.07	10	0.57
21250E 19000N	201	202	< 5	30.00	< 0.2	1.61	6	90	< 0.5	< 2	0.09	< 0.5	5	27	12	3.96	< 10	20	0.06	10	0.31
21250E 19025N	201	202	< 5	30.00	< 0.2	1.63	4	90	< 0.5	< 2	0.09	< 0.5	4	27	11	3.97	< 10	20	0.06	10	0.28
21250E 19050N	201	202	< 5	30.00	< 0.2	1.45	6	110	< 0.5	< 2	0.08	< 0.5	4	23	11	3.28	< 10	20	0.06	10	0.26
21250E 19075N	201	202	10	30.00	< 0.2	1.34	10	170	< 0.5	< 2	0.12	< 0.5	3	19	11	1.82	< 10	50	0.06	10	0.29
21250E 19100N	201	202	10	30.00	< 0.2	1.24	76	410	< 0.5	< 2	0.07	< 0.5	4	18	14	2.38	< 10	20	0.08	20	0.19
21250E 19125N	201	202	< 5	10.00	0.8	1.00	10	700	1.5	< 2	1.44	2.5	34	56	63	6.26	< 10	140	0.13	50	0.47
21250E 19150N	201	202	10	30.00	< 0.2	1.16	42	370	1.5	< 2	0.18	2.5	19	44	37	5.14	< 10	80	0.10	50	0.18
21250E 19175N	201	202	5	30.00	1.0	0.60	42	1320	0.5	< 2	0.07	1.5	10	13	39	3.29	< 10	60	0.13	30	0.04
21250E 19200N	201	202	< 5	30.00	1.0	0.84	40	690	0.5	< 2	0.03	0.5	11	21	38	4.02	< 10	60	0.10	30	0.07
21250E 19225N	201	202	5	30.00	1.0	0.71	14	770	< 0.5	< 2	0.16	1.5	7	14	40	2.28	< 10	110	0.11	30	0.11
21250E 19250N	201	202	15	15.00	1.0	0.95	10	850	0.5	< 2	0.65	3.0	26	15	27	2.36	< 10	110	0.12	30	0.23
21250E 19275N	201	202	< 5	30.00	0.2	1.07	14	650	< 0.5	< 2	0.17	0.5	14	24	29	2.86	< 10	70	0.09	20	0.36
21250E 19300N	201	202	< 5	30.00	0.8	0.96	14	1060	< 0.5	< 2	0.26	1.5	10	17	50	3.09	< 10	170	0.13	30	0.28
21250E 19325N	201	202	10	15.00	0.4	0.74	< 2	190	0.5	< 2	2.38	2.0	4	7	57	1.24	< 10	190	0.03	< 10	0.48
21250E 19350N	201	202	< 5	30.00	< 0.2	2.05	8	470	< 0.5	< 2	0.10	< 0.5	5	25	14	2.60	< 10	10	0.08	10	0.35

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN:RICK DIMENT

Page : 9-B
 Total : 9
 Certificate Date: 25-SEP-97
 Invoice No. : I9740536
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9740536

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21250E 18850N	201	202	155	< 1	< 0.01	16	520	10	< 2	2	16	0.04	< 10	< 10	55	< 10	58
21250E 18875N	201	202	290	< 1	< 0.01	16	270	16	< 2	4	13	0.04	< 10	< 10	55	< 10	68
21250E 18900N	201	202	430	< 1	< 0.01	14	350	14	< 2	3	12	0.03	< 10	< 10	53	< 10	82
21250E 18925N	201	202	365	< 1	< 0.01	15	470	14	< 2	3	18	0.03	< 10	< 10	55	< 10	102
21250E 18950N	201	202	505	< 1	< 0.01	19	370	16	< 2	4	17	0.04	< 10	< 10	57	< 10	114
21250E 18975N	201	202	310	< 1	< 0.01	20	280	12	< 2	5	19	0.06	< 10	< 10	62	< 10	70
21250E 19000N	201	202	220	< 1	< 0.01	13	480	14	< 2	2	11	0.05	< 10	< 10	60	< 10	56
21250E 19025N	201	202	175	< 1	< 0.01	10	500	14	< 2	1	12	0.04	< 10	< 10	62	< 10	48
21250E 19050N	201	202	180	< 1	< 0.01	11	410	14	< 2	2	13	0.03	< 10	< 10	48	< 10	48
21250E 19075N	201	202	90	< 1	< 0.01	10	380	14	10	1	17	0.02	< 10	< 10	29	< 10	38
21250E 19100N	201	202	135	3	< 0.01	13	270	18	30	2	51	0.01	< 10	< 10	48	< 10	80
21250E 19125N	201	202	2650	2	< 0.01	62	2020	40	22	19	145	0.02	< 10	< 10	70	< 10	140
21250E 19150N	201	202	965	3	< 0.01	68	1670	84	140	4	40	< 0.01	< 10	< 10	73	< 10	524
21250E 19175N	201	202	465	12	< 0.01	48	1040	54	30	2	167	< 0.01	< 10	< 10	70	< 10	316
21250E 19200N	201	202	290	8	< 0.01	51	710	48	112	4	79	< 0.01	< 10	< 10	72	< 10	364
21250E 19225N	201	202	125	5	< 0.01	30	840	22	8	3	156	< 0.01	< 10	< 10	46	< 10	134
21250E 19250N	201	202	1960	1	< 0.01	37	870	34	2	5	110	< 0.01	< 10	< 10	29	< 10	132
21250E 19275N	201	202	385	7	< 0.01	40	610	14	< 2	4	98	< 0.01	< 10	< 10	92	< 10	136
21250E 19300N	201	202	220	7	0.01	50	860	16	2	6	175	< 0.01	< 10	< 10	53	< 10	170
21250E 19325N	201	202	130	3	< 0.01	69	1130	4	6	3	360	< 0.01	< 10	< 10	22	< 10	38
21250E 19350N	201	202	190	1	< 0.01	15	290	12	< 2	3	31	0.02	< 10	< 10	53	< 10	62

CERTIFICATION:

Hart Bickler



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

VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Pa: 1-A
 Total: 7
 Certificate Date: 25-SEP-97
 Invoice No.: 19742956
 P.O. Number:
 Account: LDS

CERTIFICATE OF ANALYSIS

A9742956

SAMPLE	PREP		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	CODE		FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
21000E 16000M	201	202	< 5	30.00	< 0.2	2.08	10	230	0.5	< 2	0.33	< 0.5	14	35	24	4.09	< 10	10	0.15	20	0.55
21000E 16025M	201	202	< 5	30.00	0.2	1.86	18	210	1.0	< 2	0.27	< 0.5	16	38	15	4.31	< 10	20	0.16	20	0.50
21000E 16050M	201	202	10	30.00	< 0.2	2.05	22	270	0.5	< 2	0.44	< 0.5	9	32	22	3.35	< 10	10	0.16	40	0.61
21000E 16075M	201	202	120	30.00	0.8	1.08	344	180	< 0.5	< 2	0.15	0.5	11	20	19	3.49	< 10	60	0.14	20	0.32
21000E 16100M	201	202	< 5	30.00	< 0.2	1.79	16	280	0.5	< 2	0.43	< 0.5	8	31	24	2.62	< 10	20	0.09	30	0.59
21000E 16125M	201	202	< 5	30.00	< 0.2	1.89	8	170	0.5	< 2	0.19	< 0.5	7	30	14	3.18	< 10	10	0.05	10	0.43
21000E 16150M	201	202	< 5	30.00	< 0.2	1.60	10	200	< 0.5	< 2	0.25	< 0.5	7	28	13	3.01	< 10	< 10	0.12	20	0.47
21000E 16175M	201	202	< 5	10.00	< 0.2	1.97	12	170	< 0.5	< 2	0.21	< 0.5	7	28	8	2.94	< 10	20	0.06	10	0.40
21000E 16200M	201	202	< 5	30.00	< 0.2	1.59	10	150	< 0.5	< 2	0.22	< 0.5	5	25	12	2.32	< 10	10	0.07	10	0.47
21000E 16225M	201	202	< 5	30.00	< 0.2	2.65	18	210	1.0	< 2	0.58	< 0.5	14	39	30	3.55	< 10	20	0.23	50	0.95
21000E 16250M	201	202	< 5	30.00	< 0.2	1.36	8	190	< 0.5	< 2	0.27	< 0.5	5	22	17	2.04	< 10	20	0.06	20	0.42
21000E 16275M	201	202	< 5	30.00	< 0.2	1.65	14	170	0.5	< 2	0.34	< 0.5	9	39	23	2.92	< 10	20	0.17	40	0.63
21000E 16300M	201	202	< 5	30.00	0.2	1.28	12	440	0.5	< 2	0.34	0.5	13	32	15	2.57	< 10	40	0.12	20	0.46
21000E 16325M	201	202	< 5	30.00	< 0.2	1.69	12	210	0.5	< 2	0.26	< 0.5	7	35	16	3.09	< 10	20	0.14	20	0.58
21000E 16350M	201	202	< 5	30.00	0.2	1.30	4	280	< 0.5	< 2	0.35	< 0.5	13	25	12	2.61	< 10	20	0.18	10	0.45
21000E 16375M	201	202	< 5	30.00	< 0.2	1.84	20	240	0.5	< 2	0.28	< 0.5	10	38	19	3.15	< 10	20	0.14	30	0.63
21000E 16400M	201	202	< 5	30.00	< 0.2	1.78	12	200	1.0	< 2	0.30	< 0.5	8	37	37	2.92	< 10	20	0.12	30	0.68
21000E 16425M	201	202	< 5	10.00	0.4	1.77	2	390	0.5	< 2	0.27	1.5	18	38	11	3.14	< 10	10	0.18	10	0.56
21000E 16450M	201	202	< 5	30.00	0.2	2.02	6	370	1.0	< 2	0.46	1.5	19	63	20	4.06	< 10	10	0.28	30	0.85
21000E 16475M	201	202	< 5	30.00	0.2	1.85	2	450	1.0	< 2	0.42	3.5	21	52	14	3.67	< 10	10	0.36	20	0.75
21000E 16500M	201	202	< 5	30.00	0.2	1.75	6	450	0.5	< 2	0.29	3.0	19	32	12	3.28	< 10	30	0.22	10	0.51
21000E 16525M	201	202	< 5	30.00	0.2	1.32	6	380	< 0.5	< 2	0.22	0.5	8	21	7	2.27	< 10	30	0.08	10	0.36
21000E 16550M	201	202	< 5	10.00	0.4	1.95	26	750	1.5	< 2	0.39	1.5	20	39	29	4.42	< 10	30	0.46	30	0.91
21000E 16575M	201	202	< 5	30.00	< 0.2	1.39	6	260	< 0.5	< 2	0.19	0.5	5	21	15	1.95	< 10	20	0.04	10	0.34
21000E 16600M	201	202	< 5	30.00	< 0.2	1.59	2	170	< 0.5	< 2	0.16	< 0.5	4	24	7	2.03	< 10	30	0.05	10	0.36
21000E 16625M	201	202	< 5	30.00	< 0.2	1.54	2	190	< 0.5	< 2	0.19	< 0.5	5	26	12	2.17	< 10	30	0.05	10	0.42
21000E 16650M	201	202	< 5	30.00	< 0.2	1.69	10	220	< 0.5	< 2	0.20	< 0.5	8	27	14	2.46	< 10	40	0.05	10	0.49
21000E 16675M	201	202	< 5	10.00	< 0.2	1.74	8	370	< 0.5	< 2	0.23	0.5	16	31	20	2.55	< 10	30	0.06	10	0.51
21000E 16700M	201	202	< 5	30.00	< 0.2	2.82	6	810	< 0.5	< 2	0.53	< 0.5	20	71	30	3.76	< 10	40	0.11	10	1.29
21000E 16725M	201	202	< 5	10.00	< 0.2	1.80	2	400	< 0.5	< 2	0.17	< 0.5	5	31	23	1.93	< 10	30	0.05	10	0.35
21000E 16750M	201	202	< 5	30.00	0.2	2.10	6	360	< 0.5	< 2	0.19	< 0.5	8	38	21	2.95	< 10	30	0.05	10	0.61
21000E 16775M	201	202	< 5	30.00	< 0.2	1.85	< 2	210	< 0.5	< 2	0.17	< 0.5	7	36	10	2.71	< 10	20	0.06	10	0.51
21000E 16800M	201	202	< 5	10.00	< 0.2	2.66	14	420	< 0.5	< 2	0.28	< 0.5	8	56	28	2.74	< 10	40	0.08	10	0.70
21000E 16825M	201	202	< 5	15.00	< 0.2	3.36	8	940	0.5	< 2	0.53	< 0.5	17	71	30	3.90	< 10	40	0.11	20	1.38
21000E 16850M	201	202	< 5	30.00	< 0.2	2.52	10	220	< 0.5	< 2	0.20	< 0.5	9	50	14	3.86	< 10	20	0.07	10	0.62
21000E 16875M	201	202	< 5	30.00	< 0.2	2.06	8	170	< 0.5	< 2	0.12	< 0.5	4	36	12	2.66	< 10	20	0.05	10	0.33
21000E 16900M	201	202	< 5	30.00	< 0.2	2.25	14	180	< 0.5	< 2	0.17	< 0.5	8	42	14	3.05	< 10	20	0.06	10	0.55
21000E 16925M	201	202	< 5	30.00	< 0.2	1.41	2	110	< 0.5	< 2	0.07	< 0.5	1	22	7	1.49	< 10	20	0.04	10	0.20
21000E 16950M	201	202	< 5	30.00	< 0.2	1.47	6	100	< 0.5	< 2	0.10	< 0.5	4	23	8	1.77	< 10	10	0.04	10	0.32
21000E 16975M	201	202	< 5	30.00	< 0.2	1.79	6	140	< 0.5	< 2	0.10	< 0.5	5	30	12	2.49	< 10	20	0.04	10	0.41

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page 1-B
 Total P 7
 Certificate Date 25-SEP-97
 Invoice No. 19742956
 P.O. Number
 Account LDS

Project: BREWERY CREEK
 Comments: ATTN:RICK DIMENT

CERTIFICATE OF ANALYSIS

A9742956

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21000E 16000W	201	202	660	< 1	< 0.01	15	1360	22	< 2	3	52	0.16	< 10	< 10	91	< 10	78
21000E 16025W	201	202	785	1	< 0.01	11	1430	32	< 2	3	33	0.20	< 10	< 10	99	< 10	82
21000E 16050W	201	202	290	1	< 0.01	17	1060	20	2	4	65	0.12	< 10	< 10	78	< 10	76
21000E 16075W	201	202	1070	1	< 0.01	7	880	66	74	2	30	0.09	< 10	< 10	101	< 10	84
21000E 16100W	201	202	340	< 1	< 0.01	16	950	16	2	3	70	0.08	< 10	< 10	58	< 10	62
21000E 16125W	201	202	195	< 1	< 0.01	14	570	16	< 2	2	32	0.10	< 10	< 10	67	< 10	48
21000E 16150W	201	202	250	< 1	< 0.01	13	1170	14	< 2	2	51	0.10	< 10	< 10	76	< 10	44
21000E 16175W	201	202	205	< 1	< 0.01	11	450	12	< 2	2	23	0.09	< 10	< 10	67	< 10	46
21000E 16200W	201	202	160	< 1	< 0.01	12	540	14	< 2	2	39	0.10	< 10	< 10	56	< 10	40
21000E 16225W	201	202	365	< 1	< 0.01	26	2740	26	2	2	188	0.13	< 10	< 10	73	< 10	74
21000E 16250W	201	202	130	< 1	< 0.01	12	800	14	2	2	44	0.06	< 10	< 10	44	< 10	40
21000E 16275W	201	202	275	1	< 0.01	18	1740	12	< 2	3	30	0.12	< 10	< 10	77	< 10	62
21000E 16300W	201	202	1605	1	< 0.01	15	760	12	< 2	3	30	0.10	< 10	< 10	69	< 10	62
21000E 16325W	201	202	250	< 1	< 0.01	15	890	12	< 2	3	24	0.12	< 10	< 10	86	< 10	64
21000E 16350W	201	202	1320	< 1	< 0.01	11	1330	16	< 2	2	37	0.11	< 10	< 10	68	< 10	70
21000E 16375W	201	202	395	< 1	< 0.01	18	950	12	< 2	3	25	0.13	< 10	< 10	85	< 10	64
21000E 16400W	201	202	230	< 1	< 0.01	20	730	12	< 2	3	25	0.13	< 10	< 10	74	< 10	54
21000E 16425W	201	202	1550	< 1	< 0.01	17	1090	14	< 2	3	20	0.14	< 10	< 10	73	< 10	104
21000E 16450W	201	202	1280	< 1	< 0.01	22	1460	22	< 2	4	25	0.23	< 10	< 10	100	< 10	126
21000E 16475W	201	202	1530	< 1	< 0.01	20	1430	16	< 2	4	28	0.18	< 10	< 10	92	< 10	138
21000E 16500W	201	202	1990	1	< 0.01	15	1110	14	2	4	23	0.14	< 10	< 10	81	< 10	216
21000E 16525W	201	202	745	< 1	< 0.01	10	520	8	< 2	2	19	0.09	< 10	< 10	60	< 10	76
21000E 16550W	201	202	2370	< 1	< 0.01	16	1390	22	< 2	7	32	0.22	< 10	< 10	109	< 10	124
21000E 16575W	201	202	110	2	< 0.01	16	380	12	< 2	1	21	0.05	< 10	< 10	59	< 10	42
21000E 16600W	201	202	105	< 1	< 0.01	10	420	12	< 2	2	18	0.07	< 10	< 10	59	< 10	46
21000E 16625W	201	202	160	< 1	< 0.01	14	580	8	< 2	1	19	0.05	< 10	< 10	59	< 10	50
21000E 16650W	201	202	260	< 1	< 0.01	17	710	8	< 2	3	19	0.06	< 10	< 10	52	< 10	56
21000E 16675W	201	202	630	1	0.01	20	790	10	< 2	1	26	0.06	< 10	< 10	59	< 10	42
21000E 16700W	201	202	530	< 1	0.05	49	1070	12	2	4	52	0.20	< 10	< 10	89	< 10	58
21000E 16725W	201	202	100	< 1	0.03	17	790	12	< 2	1	26	0.07	< 10	< 10	43	< 10	26
21000E 16750W	201	202	205	< 1	0.02	24	450	10	2	2	18	0.10	< 10	< 10	69	< 10	40
21000E 16775W	201	202	215	< 1	0.01	16	310	12	< 2	3	16	0.13	< 10	< 10	77	< 10	38
21000E 16800W	201	202	140	< 1	0.04	33	840	12	2	1	37	0.10	< 10	< 10	65	< 10	34
21000E 16825W	201	202	355	< 1	0.04	49	760	10	2	5	70	0.18	< 10	< 10	101	< 10	64
21000E 16850W	201	202	255	1	0.01	26	590	18	2	3	18	0.11	< 10	< 10	93	< 10	56
21000E 16875W	201	202	140	< 1	< 0.01	13	630	14	< 2	3	15	0.09	< 10	< 10	72	< 10	36
21000E 16900W	201	202	215	< 1	< 0.01	24	500	10	< 2	3	18	0.07	< 10	< 10	60	< 10	54
21000E 16925W	201	202	65	< 1	< 0.01	9	800	14	< 2	< 1	11	0.04	< 10	< 10	50	< 10	22
21000E 16950W	201	202	90	< 1	< 0.01	13	680	14	2	1	12	0.05	< 10	< 10	47	< 10	34
21000E 16975W	201	202	130	< 1	< 0.01	17	360	16	2	1	12	0.04	< 10	< 10	55	< 10	50

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project : BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Page: 2-A
 Total: 7
 Certificate Date: 25-SEP-97
 Invoice No.: 19742956
 P.O. Number:
 Account: LDS

CERTIFICATE OF ANALYSIS

A9742956

SAMPLE	PREP CODE		Au ppb fusion	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
21000E 17000NA	201	202	< 5 30.00	< 0.2	3.25	16	310	0.5	< 2	0.19	< 0.5	13	62	24	3.58	< 10	30	0.07	10	0.67
21000E 17000NB	201	202	< 5 30.00	< 0.2	2.17	4	160	< 0.5	< 2	0.14	< 0.5	4	32	9	2.08	< 10	20	0.05	10	0.39
21000E 17025N	201	202	< 5 30.00	< 0.2	1.84	8	150	< 0.5	< 2	0.16	< 0.5	4	30	9	2.02	< 10	40	0.05	10	0.40
21000E 17050N	201	202	< 5 30.00	< 0.2	2.64	10	220	0.5	< 2	0.15	< 0.5	8	42	16	2.88	< 10	50	0.06	10	0.59
21000E 17075N	201	202	< 5 30.00	< 0.2	2.48	8	200	< 0.5	< 2	0.18	< 0.5	7	37	17	2.69	< 10	100	0.06	10	0.61
21000E 17100N	201	202	< 5 30.00	< 0.2	2.22	8	150	< 0.5	< 2	0.17	< 0.5	6	29	15	2.50	< 10	20	0.05	10	0.54
21000E 17125N	201	202	< 5 30.00	< 0.2	2.50	2	150	< 0.5	< 2	0.13	< 0.5	6	33	11	3.16	< 10	20	0.05	10	0.59
21000E 17150N	201	202	< 5 30.00	< 0.2	1.70	< 2	140	< 0.5	< 2	0.10	< 0.5	1	22	8	1.41	< 10	20	0.05	10	0.20
21000E 17175N	201	202	< 5 30.00	< 0.2	1.87	2	120	< 0.5	< 2	0.14	< 0.5	3	25	8	1.47	< 10	30	0.04	10	0.37
21000E 17200N	201	202	< 5 30.00	< 0.2	1.99	4	160	< 0.5	< 2	0.18	< 0.5	4	27	11	1.93	< 10	30	0.05	10	0.46
21000E 17225N	201	202	< 5 30.00	< 0.2	1.98	6	130	< 0.5	< 2	0.14	< 0.5	4	26	7	1.72	< 10	20	0.04	10	0.39
21000E 17250N	201	202	< 5 30.00	< 0.2	1.14	< 2	110	< 0.5	< 2	0.10	< 0.5	1	14	5	1.21	< 10	20	0.03	10	0.17
21000E 17275N	201	202	< 5 30.00	< 0.2	1.54	6	120	< 0.5	< 2	0.10	0.5	4	21	9	2.29	< 10	20	0.04	10	0.33
21000E 17300N	201	202	< 5 30.00	0.6	2.50	8	230	< 0.5	< 2	0.14	1.5	10	30	10	2.93	< 10	30	0.04	10	0.46
21000E 17325N	201	202	< 5 10.00	0.2	2.39	12	280	< 0.5	< 2	0.21	1.0	7	31	18	2.95	< 10	40	0.08	10	0.61
21000E 17350N	201	202	< 5 10.00	0.2	1.94	4	230	< 0.5	< 2	0.60	3.0	7	26	16	1.82	< 10	30	0.04	10	0.53
21000E 17375N	201	202	< 5 30.00	< 0.2	1.41	8	150	< 0.5	< 2	0.12	0.5	4	19	11	2.02	< 10	10	0.04	10	0.28
21000E 17400N	201	202	< 5 10.00	< 0.2	1.13	12	160	< 0.5	< 2	0.16	2.0	3	20	12	1.82	< 10	30	0.05	10	0.24
21000E 17425N	201	202	< 5 10.00	0.6	1.49	12	270	0.5	< 2	0.59	3.0	5	26	29	1.69	< 10	60	0.05	10	0.42
21000E 17450N	201	202	not/ss not/ss	< 0.2	1.33	2	290	0.5	< 2	0.60	5.0	7	21	17	1.94	< 10	100	0.07	< 10	0.47
21000E 17475N	201	202	< 5 10.00	0.4	0.73	< 2	190	< 0.5	< 2	0.31	1.5	2	13	11	1.06	< 10	90	0.05	< 10	0.14
21000E 17500N	201	202	< 5 10.00	0.8	1.25	< 2	370	0.5	< 2	2.56	9.5	4	18	28	1.27	< 10	180	0.03	10	0.39
21000E 17525N	201	202	< 5 30.00	< 0.2	1.76	12	270	< 0.5	< 2	0.49	3.5	6	29	22	1.99	< 10	50	0.03	10	0.64
21000E 17550N	201	202	< 5 30.00	< 0.2	1.77	8	260	< 0.5	< 2	0.42	1.5	4	28	18	1.82	< 10	40	0.04	10	0.54
21000E 17575N	201	202	< 5 10.00	< 0.2	0.99	2	210	< 0.5	< 2	0.60	11.0	4	15	32	1.11	< 10	80	0.05	10	0.23
21000E 17600N	201	202	< 5 10.00	< 0.2	1.58	2	140	< 0.5	< 2	0.37	6.5	6	24	12	2.05	< 10	30	0.05	10	0.49
21000E 17625N	201	202	< 5 10.00	0.2	0.76	4	170	0.5	< 2	4.03	7.0	3	13	91	0.62	< 10	200	0.03	< 10	0.33
21000E 17650N	201	202	< 5 10.00	0.4	1.10	< 2	180	< 0.5	< 2	3.56	17.0	4	20	41	0.85	< 10	140	0.03	< 10	0.88
21000E 17675N	201	202	< 5 10.00	0.2	1.37	8	190	0.5	< 2	3.43	7.5	5	26	63	1.18	< 10	140	0.04	10	0.98
21000E 17700N	201	202	< 5 10.00	0.2	1.45	8	190	0.5	< 2	3.06	8.0	6	32	52	1.27	< 10	130	0.06	10	1.14
21000E 17725N	201	202	< 5 30.00	0.6	2.15	2	360	0.5	< 2	1.16	2.5	8	46	44	1.94	< 10	130	0.07	10	0.92
21000E 17750N	201	202	< 5 30.00	< 0.2	1.83	8	330	< 0.5	< 2	0.27	1.5	4	54	24	2.28	< 10	30	0.10	10	0.56
21000E 17775N	201	202	< 5 30.00	0.2	2.18	6	390	< 0.5	< 2	0.17	0.5	5	49	33	2.47	< 10	50	0.07	10	0.45
21000E 17800N	201	202	< 5 30.00	0.4	1.57	< 2	410	< 0.5	< 2	0.18	3.0	3	48	16	1.78	< 10	10	0.07	10	0.28
21000E 17825N	201	202	< 5 30.00	< 0.2	2.09	6	560	0.5	< 2	0.12	1.0	3	61	31	2.23	< 10	40	0.08	20	0.32
21000E 17850N	201	202	< 5 30.00	0.2	2.08	4	510	< 0.5	< 2	0.15	0.5	4	58	21	1.93	< 10	40	0.08	20	0.30
21000E 17875N	201	202	< 5 30.00	< 0.2	1.93	10	330	< 0.5	< 2	0.13	0.5	5	39	16	2.24	< 10	30	0.07	10	0.34
21000E 17900N	201	202	< 5 30.00	0.2	2.17	12	520	0.5	< 2	0.14	1.0	5	65	47	2.53	< 10	50	0.09	30	0.41
21000E 17925N	201	202	< 5 30.00	< 0.2	1.81	8	270	< 0.5	< 2	0.08	< 0.5	7	36	15	2.83	< 10	30	0.04	10	0.39
21000E 17950N	201	202	< 5 30.00	< 0.2	1.70	8	210	< 0.5	< 2	0.09	< 0.5	7	28	10	2.53	< 10	20	0.03	< 10	0.39

CERTIFICATION: Hart Bichler



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

VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Page 1 of 2
 Total P
 Certificate Date 25-SEP-97
 Invoice No 19742956
 P.O. Number
 Account LDS

CERTIFICATE OF ANALYSIS A9742956

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21000E 17000NA	201	202	420	1 < 0.01		37	730	14	2	5	22	0.10	< 10	< 10	79	< 10	68
21000E 17000NB	201	202	120	< 1 < 0.01		13	430	20	< 2	3	16	0.06	< 10	< 10	61	< 10	42
21000E 17025N	201	202	115	< 1 < 0.01		15	560	12	2	2	16	0.05	< 10	< 10	56	< 10	38
21000E 17050N	201	202	300	< 1 < 0.01		20	630	12	2	4	17	0.08	< 10	< 10	61	< 10	58
21000E 17075N	201	202	205	< 1 < 0.01		23	410	18	2	3	19	0.08	< 10	< 10	65	< 10	56
21000E 17100N	201	202	165	< 1 < 0.01		20	740	20	2	2	16	0.05	< 10	< 10	56	< 10	54
21000E 17125N	201	202	165	< 1 < 0.01		17	230	18	< 2	3	15	0.08	< 10	< 10	63	< 10	58
21000E 17150N	201	202	60	< 1 < 0.01		5	780	30	< 2	2	15	0.05	< 10	< 10	50	< 10	20
21000E 17175N	201	202	90	< 1 < 0.01		9	430	20	< 2	2	14	0.06	< 10	< 10	47	< 10	36
21000E 17200N	201	202	125	< 1 < 0.01		13	410	16	< 2	3	15	0.06	< 10	< 10	50	< 10	46
21000E 17225N	201	202	110	< 1 < 0.01		10	200	16	< 2	3	13	0.08	< 10	< 10	52	< 10	36
21000E 17250N	201	202	60	< 1 < 0.01		6	200	20	< 2	< 1	13	0.04	< 10	< 10	39	< 10	18
21000E 17275N	201	202	115	< 1 < 0.01		12	210	20	< 2	2	10	0.05	< 10	< 10	51	< 10	42
21000E 17300N	201	202	305	1 < 0.01		16	240	30	< 2	3	12	0.06	< 10	< 10	63	< 10	238
21000E 17325N	201	202	260	1 < 0.01		22	390	26	4	3	18	0.07	< 10	< 10	68	< 10	120
21000E 17350N	201	202	605	1 0.01		25	310	44	4	3	49	0.08	< 10	< 10	176	< 10	186
21000E 17375N	201	202	180	1 < 0.01		9	310	16	< 2	1	12	0.06	< 10	< 10	61	< 10	68
21000E 17400N	201	202	170	4 < 0.01		13	430	18	2	< 1	16	0.04	< 10	< 10	98	< 10	122
21000E 17425N	201	202	320	< 1 0.02		28	910	20	2	< 1	28	0.03	< 10	< 10	122	< 10	196
21000E 17450N	201	202	385	1 0.01		15	770	52	2	1	31	0.06	< 10	< 10	53	< 10	82
21000E 17475N	201	202	155	< 1 0.01		8	800	38	< 2	< 1	17	0.03	< 10	< 10	38	< 10	68
21000E 17500N	201	202	325	1 0.01		22	1300	26	6	1	49	0.03	< 10	< 10	48	< 10	118
21000E 17525N	201	202	205	1 < 0.01		30	460	26	2	3	22	0.07	< 10	< 10	97	< 10	174
21000E 17550N	201	202	135	1 < 0.01		21	410	16	2	3	23	0.06	< 10	< 10	77	< 10	126
21000E 17575N	201	202	245	2 0.01		23	840	10	< 2	< 1	33	0.03	< 10	< 10	52	< 10	142
21000E 17600N	201	202	305	3 0.01		18	650	18	2	2	24	0.07	< 10	< 10	113	< 10	320
21000E 17625N	201	202	135	< 1 < 0.01		27	1280	4	< 2	< 1	58	0.02	< 10	< 10	54	< 10	134
21000E 17650N	201	202	405	< 1 0.01		36	1130	10	< 2	1	61	0.04	< 10	< 10	105	< 10	388
21000E 17675N	201	202	255	1 0.01		48	1210	10	2	1	60	0.03	< 10	< 10	125	< 10	388
21000E 17700N	201	202	300	3 0.01		59	1190	8	2	3	65	0.05	< 10	< 10	183	< 10	466
21000E 17725N	201	202	395	1 0.01		61	1650	12	< 2	3	39	0.04	< 10	< 10	141	< 10	448
21000E 17750N	201	202	140	1 < 0.01		37	1940	8	2	< 1	37	0.01	< 10	< 10	174	< 10	168
21000E 17775N	201	202	145	< 1 < 0.01		20	1230	12	2	2	46	0.04	< 10	< 10	197	< 10	76
21000E 17800N	201	202	120	1 < 0.01		15	1070	12	2	1	57	0.03	< 10	< 10	252	< 10	78
21000E 17825N	201	202	105	< 1 < 0.01		14	1690	12	< 2	1	94	0.04	< 10	< 10	349	< 10	60
21000E 17850N	201	202	110	< 1 < 0.01		15	940	14	< 2	1	70	0.04	< 10	< 10	310	< 10	60
21000E 17875N	201	202	190	< 1 < 0.01		18	680	12	< 2	2	39	0.06	< 10	< 10	184	< 10	80
21000E 17900N	201	202	175	1 < 0.01		46	1460	10	< 2	3	92	0.05	< 10	< 10	325	< 10	176
21000E 17925N	201	202	270	< 1 < 0.01		18	550	10	< 2	1	28	0.04	< 10	< 10	119	< 10	76
21000E 17950N	201	202	230	< 1 < 0.01		13	280	8	< 2	2	14	0.04	< 10	< 10	71	< 10	52

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: VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page: 3-A
 Total: 7
 Certificate Date: 25-SEP-97
 Invoice No.: 19742956
 P.O. Number:
 Account: LDS

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS

A9742956

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
21200E 17975N	201	202	< 5	30.00	< 0.2	1.39	4	150	< 0.5	< 2	0.08	< 0.5	4	21	7	1.74	< 10	20	0.04	10	0.28
21200E 16000N	201	202	< 5	30.00	< 0.2	2.08	8	280	0.5	< 2	0.18	< 0.5	12	30	10	3.51	< 10	20	0.15	10	0.53
21200E 16025N	201	202	< 5	30.00	0.4	2.57	10	200	0.5	< 2	0.16	< 0.5	10	31	10	3.36	< 10	40	0.08	10	0.45
21200E 16050N	201	202	< 5	30.00	2.2	2.06	52	390	1.0	< 2	0.43	3.0	14	38	51	5.21	10	20	0.44	40	0.68
21200E 16075N	201	202	< 5	30.00	0.2	2.82	20	190	1.5	< 2	0.63	0.5	16	27	26	5.42	< 10	20	0.21	30	0.70
21200E 16100N	201	202	10	30.00	< 0.2	2.44	14	270	0.5	< 2	0.32	< 0.5	13	42	33	3.89	< 10	10	0.19	30	0.76
21200E 16125N	201	202	< 5	30.00	< 0.2	1.67	16	280	1.5	< 2	1.64	< 0.5	17	56	71	4.51	< 10	10	0.91	160	1.37
21200E 16150N	201	202	< 5	30.00	0.2	1.93	10	260	0.5	< 2	0.24	< 0.5	18	34	15	3.36	< 10	20	0.09	30	0.63
21200E 16175N	201	202	< 5	30.00	< 0.2	2.28	14	170	0.5	< 2	0.15	< 0.5	10	36	24	3.56	< 10	20	0.09	10	0.58
21200E 16200N	201	202	< 5	30.00	< 0.2	2.33	14	290	0.5	< 2	0.85	< 0.5	15	39	44	3.57	< 10	10	0.29	60	0.92
21200E 16225N	201	202	< 5	30.00	< 0.2	1.84	24	190	0.5	< 2	0.20	< 0.5	8	31	15	3.81	< 10	10	0.10	10	0.54
21200E 16250N	201	202	< 5	30.00	< 0.2	1.88	14	180	0.5	< 2	0.38	< 0.5	9	35	20	3.16	< 10	20	0.12	20	0.63
21200E 16275N	201	202	< 5	30.00	< 0.2	2.38	10	290	0.5	< 2	0.28	< 0.5	13	38	18	3.43	< 10	20	0.09	10	0.68
21200E 16300N	201	202	10	30.00	0.4	1.30	8	230	0.5	< 2	0.39	< 0.5	7	31	43	2.39	< 10	30	0.13	40	0.60
21200E 16325N	201	202	< 5	30.00	< 0.2	2.08	14	440	1.5	< 2	1.13	0.5	22	63	37	4.60	< 10	10	0.57	80	1.32
21200E 16350N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21200E 16375N	201	202	< 5	30.00	< 0.2	1.68	22	160	0.5	< 2	0.17	< 0.5	7	27	14	2.79	< 10	10	0.04	10	0.49
21200E 16400N	201	202	< 5	30.00	< 0.2	1.42	10	120	0.5	< 2	0.17	< 0.5	6	25	17	2.31	< 10	20	0.06	20	0.47
21200E 16425N	201	202	< 5	30.00	< 0.2	1.53	12	150	< 0.5	< 2	0.28	< 0.5	8	25	18	2.48	< 10	20	0.06	10	0.49
21200E 16450N	201	202	< 5	30.00	< 0.2	1.98	14	260	0.5	< 2	0.25	< 0.5	9	29	19	2.77	< 10	20	0.08	10	0.52
21200E 16475N	201	202	< 5	30.00	< 0.2	2.38	4	320	1.5	< 2	0.47	< 0.5	21	38	30	3.70	< 10	10	0.31	40	0.75
21200E 16500N	201	202	< 5	30.00	< 0.2	1.71	4	160	< 0.5	< 2	0.28	< 0.5	7	29	16	3.29	< 10	10	0.08	30	0.57
21200E 16525N	201	202	< 5	30.00	< 0.2	2.07	14	220	1.0	< 2	0.41	< 0.5	12	40	31	3.56	< 10	20	0.25	40	0.74
21200E 16550N	201	202	< 5	30.00	< 0.2	2.30	18	200	1.5	< 2	0.54	< 0.5	22	58	38	5.47	10	10	0.39	50	1.04
21200E 16575N	201	202	< 5	30.00	< 0.2	1.82	10	160	< 0.5	< 2	0.16	< 0.5	7	30	10	2.52	< 10	20	0.07	10	0.51
21200E 16600N	201	202	< 5	30.00	< 0.2	1.98	10	470	2.0	< 2	0.59	< 0.5	18	41	41	4.13	< 10	10	0.37	60	1.01
21200E 16625N	201	202	< 5	30.00	< 0.2	1.88	8	210	1.5	< 2	0.63	< 0.5	12	37	29	4.12	< 10	10	0.24	50	1.04
21200E 16650N	201	202	< 5	30.00	< 0.2	1.59	2	390	0.5	< 2	0.24	< 0.5	7	35	23	3.51	< 10	10	0.27	20	0.73
21200E 16675N	201	202	< 5	30.00	< 0.2	1.59	2	640	< 0.5	< 2	0.13	0.5	7	37	19	2.94	< 10	20	0.16	10	0.63
21200E 16700N	201	202	< 5	30.00	< 0.2	2.99	8	1550	< 0.5	< 2	0.42	< 0.5	13	75	23	3.55	< 10	20	0.18	10	1.15
21200E 16725N	201	202	15	30.00	< 0.2	2.90	4	1990	0.5	< 2	0.56	< 0.5	13	70	27	3.52	< 10	30	0.21	10	1.12
21200E 16750N	201	202	< 5	30.00	< 0.2	3.09	4	1770	0.5	< 2	0.59	< 0.5	15	70	27	3.54	< 10	30	0.24	10	1.10
21200E 16775N	201	202	< 5	30.00	< 0.2	2.94	8	670	0.5	< 2	0.42	< 0.5	14	58	23	3.50	< 10	20	0.10	10	0.87
21200E 16800N	201	202	< 5	30.00	< 0.2	2.57	12	390	< 0.5	< 2	0.21	< 0.5	9	65	18	3.22	< 10	20	0.06	10	0.81
21200E 16825N	201	202	< 5	30.00	< 0.2	2.75	2	640	< 0.5	< 2	0.23	1.0	14	51	19	3.29	< 10	20	0.09	10	0.71
21200E 16850N	201	202	< 5	30.00	< 0.2	2.32	8	570	< 0.5	< 2	0.21	0.5	11	39	18	2.66	< 10	20	0.11	10	0.71
21200E 16875N	201	202	< 5	30.00	< 0.2	2.58	8	260	< 0.5	< 2	0.21	0.5	8	36	18	2.71	< 10	70	0.07	10	0.65
21200E 16900N	201	202	< 5	30.00	< 0.2	3.43	10	550	0.5	< 2	0.71	0.5	19	80	38	4.07	< 10	20	0.09	10	1.02
21200E 16925N	201	202	< 5	30.00	0.2	1.65	6	150	0.5	< 2	0.22	0.5	5	31	16	3.61	< 10	30	0.09	10	0.36
21200E 16950N	201	202	< 5	30.00	< 0.2	2.09	6	230	< 0.5	< 2	0.17	0.5	7	34	16	2.52	< 10	20	0.08	10	0.52

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: VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

P. No. 1000000000
 Total P. 7
 Certifi. Date 25-SEP-97
 Invoice No. 19742956
 P.O. Number
 Account LDS

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS

A9742956

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21000E 17975N	201 202	140	< 1	< 0.01	9	340	10	< 2	< 1	11	0.03	< 10	< 10	49	< 10	34
21200E 16000N	201 202	530	< 1	< 0.01	15	1060	12	< 2	3	25	0.11	< 10	< 10	77	< 10	126
21200E 16025N	201 202	295	< 1	< 0.01	14	700	20	< 2	3	21	0.09	< 10	< 10	77	< 10	100
21200E 16050N	201 202	1085	1	< 0.01	12	2440	70	10	4	76	0.20	< 10	< 10	126	< 10	166
21200E 16075N	201 202	525	< 1	< 0.01	13	1670	26	2	4	70	0.24	< 10	< 10	161	< 10	194
21200E 16100N	201 202	425	< 1	< 0.01	18	1580	24	< 2	3	91	0.14	< 10	< 10	88	< 10	96
21200E 16125N	201 202	660	< 1	0.02	20	4180	60	8	5	639	0.03	< 10	< 10	105	< 10	126
21200E 16150N	201 202	1230	< 1	< 0.01	15	1050	26	6	4	47	0.13	< 10	< 10	78	< 10	112
21200E 16175N	201 202	275	< 1	< 0.01	20	610	20	< 2	3	26	0.09	< 10	< 10	74	< 10	66
21200E 16200N	201 202	440	< 1	< 0.01	21	2690	34	2	3	214	0.06	< 10	< 10	91	< 10	86
21200E 16225N	201 202	240	< 1	< 0.01	17	1010	18	2	3	38	0.10	< 10	< 10	81	< 10	64
21200E 16250N	201 202	225	< 1	< 0.01	19	1350	16	< 2	3	57	0.10	< 10	< 10	75	< 10	58
21200E 16275N	201 202	380	< 1	< 0.01	18	1180	20	< 2	3	42	0.11	< 10	< 10	82	< 10	90
21200E 16300N	201 202	160	< 1	< 0.01	19	1040	14	2	4	46	0.10	< 10	< 10	63	< 10	48
21200E 16325N	201 202	985	1	< 0.01	21	2660	58	6	7	155	0.08	< 10	< 10	118	< 10	178
21200E 16350N	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21200E 16375N	201 202	200	< 1	< 0.01	15	400	12	< 2	3	16	0.07	< 10	< 10	63	< 10	50
21200E 16400N	201 202	210	< 1	< 0.01	16	500	14	2	3	20	0.07	< 10	< 10	56	< 10	52
21200E 16425N	201 202	200	< 1	< 0.01	20	670	12	< 2	2	43	0.07	< 10	< 10	45	< 10	52
21200E 16450N	201 202	535	< 1	< 0.01	20	690	18	< 2	3	43	0.09	< 10	< 10	61	< 10	62
21200E 16475N	201 202	1950	1	< 0.01	19	1820	34	2	3	144	0.17	< 10	< 10	84	< 10	106
21200E 16500N	201 202	275	< 1	< 0.01	9	1150	26	< 2	3	82	0.15	< 10	< 10	81	< 10	60
21200E 16525N	201 202	370	< 1	< 0.01	18	1310	24	< 2	4	87	0.17	< 10	< 10	91	< 10	72
21200E 16550N	201 202	925	< 1	< 0.01	20	1700	30	2	5	33	0.18	< 10	< 10	157	< 10	98
21200E 16575N	201 202	180	< 1	< 0.01	15	360	12	< 2	3	17	0.08	< 10	< 10	59	< 10	48
21200E 16600N	201 202	1015	< 1	< 0.01	18	1870	26	2	8	51	0.23	< 10	< 10	124	< 10	84
21200E 16625N	201 202	515	< 1	< 0.01	15	2230	18	< 2	10	30	0.16	< 10	< 10	84	< 10	92
21200E 16650N	201 202	210	< 1	< 0.01	14	690	18	< 2	6	27	0.23	< 10	< 10	118	< 10	66
21200E 16675N	201 202	235	< 1	0.01	17	630	12	< 2	3	20	0.14	< 10	< 10	88	< 10	50
21200E 16700N	201 202	235	< 1	0.03	43	900	12	< 2	4	40	0.25	< 10	< 10	87	< 10	60
21200E 16725N	201 202	320	< 1	0.04	44	940	12	< 2	5	57	0.23	< 10	< 10	87	< 10	66
21200E 16750N	201 202	330	< 1	0.05	43	920	12	2	5	59	0.21	< 10	< 10	91	< 10	70
21200E 16775N	201 202	330	< 1	0.03	38	780	12	< 2	5	36	0.15	< 10	< 10	84	< 10	70
21200E 16800N	201 202	220	< 1	0.01	32	560	12	2	4	23	0.14	< 10	< 10	91	< 10	54
21200E 16825N	201 202	375	< 1	0.01	26	630	18	2	3	22	0.20	< 10	< 10	82	< 10	72
21200E 16850N	201 202	390	< 1	0.01	25	610	16	2	2	21	0.10	< 10	< 10	68	< 10	58
21200E 16875N	201 202	240	< 1	< 0.01	22	470	16	2	3	20	0.09	< 10	< 10	69	< 10	64
21200E 16900N	201 202	435	< 1	0.01	59	650	18	2	6	47	0.22	< 10	< 10	177	< 10	156
21200E 16925N	201 202	190	1	< 0.01	17	780	16	< 2	3	19	0.13	< 10	< 10	116	< 10	72
21200E 16950N	201 202	300	< 1	< 0.01	21	660	16	2	3	20	0.09	< 10	< 10	69	< 10	76

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

VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Page: 4-A
 Total: 7
 Certificate Date: 25-SEP-97
 Invoice No.: 19742956
 P.O. Number:
 Account: LDS

CERTIFICATE OF ANALYSIS

A9742956

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
21200E 16975N	201	202	< 5	30.00	< 0.2	1.90	2	180	< 0.5	< 2	0.15	< 0.5	6	32	13	2.58	< 10	20	0.05	10	0.48
21200E 17000NA	201	202	< 5	30.00	< 0.2	2.00	< 2	180	< 0.5	< 2	0.15	< 0.5	5	30	12	2.31	< 10	10	0.04	10	0.48
21200E 17000NA	201	202	< 5	30.00	0.2	2.03	2	460	< 0.5	< 2	0.17	1.0	7	32	18	2.23	< 10	30	0.08	10	0.53
21200E 17000NB	201	202	< 5	30.00	< 0.2	4.10	6	1060	0.5	< 2	0.40	0.5	24	85	36	4.65	< 10	20	0.17	10	1.27
21200E 17000NC	201	202	< 5	30.00	< 0.2	2.73	8	470	< 0.5	< 2	0.24	< 0.5	12	70	21	3.32	< 10	20	0.07	10	0.86
21200E 17000ND	201	202	< 5	30.00	< 0.2	2.91	8	780	0.5	< 2	0.42	< 0.5	13	60	24	3.54	< 10	20	0.10	20	0.90
21200E 17000NE	201	202	< 5	30.00	< 0.2	2.65	10	1530	< 0.5	< 2	0.50	< 0.5	16	64	24	3.32	< 10	20	0.19	20	0.99
21200E 17000N	201	202	< 5	30.00	< 0.2	2.50	8	260	0.5	< 2	0.20	< 0.5	10	36	20	2.72	< 10	20	0.06	10	0.72
21200E 17025N	201	202	< 5	30.00	0.2	3.28	6	530	0.5	< 2	0.55	0.5	19	77	34	3.89	< 10	30	0.07	10	0.95
21200E 17050N	201	202	< 5	30.00	0.2	1.23	2	130	< 0.5	< 2	0.16	0.5	4	26	14	2.56	< 10	20	0.06	10	0.25
21200E 17075N	201	202	< 5	30.00	0.2	1.97	8	210	< 0.5	< 2	0.14	0.5	6	32	16	2.49	< 10	20	0.06	10	0.48
21200E 17100N	201	202	< 5	30.00	< 0.2	2.13	8	200	< 0.5	< 2	0.17	< 0.5	7	35	16	2.81	< 10	20	0.06	10	0.54
21200E 17125N	201	202	< 5	30.00	< 0.2	1.91	< 2	200	< 0.5	< 2	0.17	< 0.5	4	29	12	2.23	< 10	50	0.05	10	0.45
21200E 17150N	201	202	< 5	30.00	< 0.2	2.58	8	250	< 0.5	< 2	0.17	0.5	7	36	19	2.75	< 10	20	0.05	10	0.66
21200E 17175N	201	202	< 5	30.00	< 0.2	2.03	6	300	< 0.5	< 2	0.17	0.5	4	29	12	2.12	< 10	20	0.05	10	0.49
21200E 17200N	201	202	< 5	30.00	0.2	1.99	8	230	< 0.5	< 2	0.16	0.5	4	26	11	2.06	< 10	20	0.04	10	0.41
21200E 17225N	201	202	< 5	30.00	< 0.2	2.50	6	320	0.5	< 2	0.27	1.5	10	37	27	2.76	< 10	30	0.05	10	0.76
21200E 17250N	201	202	< 5	30.00	0.4	2.00	10	230	< 0.5	< 2	0.23	2.0	7	33	17	2.83	< 10	20	0.05	10	0.59
21200E 17275N	201	202	< 5	30.00	0.6	2.89	8	310	0.5	< 2	0.32	0.5	9	52	29	2.84	< 10	40	0.05	10	0.89
21200E 17300N	201	202	< 5	30.00	< 0.2	1.89	6	150	< 0.5	< 2	0.15	< 0.5	4	35	11	2.68	< 10	30	0.04	10	0.51
21200E 17325N	201	202	70	30.00	< 0.2	2.18	8	180	< 0.5	< 2	0.29	0.5	7	51	23	2.48	< 10	40	0.05	10	0.88
21200E 17350N	201	202	< 5	30.00	< 0.2	2.54	10	170	< 0.5	< 2	0.17	0.5	6	57	26	3.20	< 10	60	0.05	10	0.90
21200E 17375N	201	202	< 5	30.00	< 0.2	2.05	8	150	< 0.5	< 2	0.18	0.5	4	34	14	2.21	< 10	40	0.04	10	0.52
21200E 17400N	201	202	< 5	30.00	< 0.2	2.85	12	190	< 0.5	< 2	0.16	0.5	8	43	19	3.09	< 10	70	0.05	10	0.54
21200E 17425N	201	202	5	30.00	< 0.2	2.53	2	180	< 0.5	< 2	0.11	2.0	8	45	22	3.42	< 10	70	0.05	10	0.59
21200E 17450N	201	202	10	30.00	0.2	2.59	10	220	< 0.5	< 2	0.13	2.0	9	38	14	2.99	< 10	30	0.06	10	0.61
21200E 17475N	201	202	< 5	30.00	0.2	2.23	8	260	0.5	< 2	0.35	< 0.5	8	37	27	2.71	< 10	70	0.05	10	0.63
21200E 17500N	201	202	< 5	30.00	0.4	1.99	2	280	< 0.5	< 2	0.46	< 0.5	8	32	17	2.19	< 10	40	0.04	10	0.59
21200E 17525N	201	202	< 5	30.00	0.4	1.96	< 2	270	< 0.5	< 2	0.44	1.5	5	34	16	1.99	< 10	40	0.04	10	0.66
21200E 17550N	201	202	< 5	30.00	< 0.2	2.12	2	260	0.5	< 2	0.29	1.0	7	41	36	2.53	< 10	160	0.05	10	0.61
21200E 17575N	201	202	< 5	30.00	0.2	1.81	4	220	0.5	< 2	0.45	5.0	8	59	38	2.22	< 10	290	0.05	20	0.55
21200E 17600N	201	202	< 5	30.00	0.4	1.79	8	280	0.5	< 2	0.62	9.5	7	67	56	2.15	< 10	310	0.05	20	0.53
21200E 17625N	201	202	< 5	30.00	< 0.2	1.48	14	200	< 0.5	< 2	0.28	2.0	9	32	30	2.23	< 10	90	0.06	10	0.42
21200E 17650N	201	202	< 5	30.00	0.2	1.32	16	130	< 0.5	< 2	0.17	1.5	5	26	11	2.65	< 10	40	0.07	10	0.35
21200E 17675N	201	202	< 5	30.00	0.2	1.59	20	170	< 0.5	< 2	0.32	1.5	10	36	20	2.78	< 10	60	0.06	20	0.46
21200E 17700N	201	202	< 5	30.00	0.4	1.78	14	260	0.5	< 2	0.40	2.5	9	58	28	2.84	< 10	70	0.08	20	0.66
21200E 17725N	201	202	< 5	30.00	0.2	1.40	12	240	< 0.5	< 2	0.22	2.0	6	28	21	2.12	< 10	40	0.05	10	0.39
21200E 17750N	201	202	< 5	30.00	< 0.2	1.49	8	190	< 0.5	< 2	0.31	0.5	7	36	19	2.08	< 10	40	0.06	10	0.59
21200E 17775N	201	202	< 5	30.00	0.2	1.59	< 2	230	< 0.5	< 2	0.22	1.5	4	46	27	2.03	< 10	100	0.06	10	0.57
21200E 17800N	201	202	< 5	30.00	< 0.2	1.55	2	190	< 0.5	< 2	0.23	1.0	5	37	16	2.08	< 10	30	0.05	20	0.42

CERTIFICATION: Hank [Signature]



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

VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Page: 4-B
 Total P: 7
 Certificate No: 25-SEP-97
 Invoice No: 19742956
 P.O. Number:
 Account: LDS

CERTIFICATE OF ANALYSIS

A9742956

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21200E 16975M	201	202	230	< 1	< 0.01	17	600	16	2	3	16	0.06	< 10	< 10	63	< 10	68
21200E 17000MA	201	202	145	< 1	< 0.01	14	440	14	< 2	3	16	0.06	< 10	< 10	66	< 10	70
21200E 17000MA	201	202	240	< 1	< 0.01	20	560	12	< 2	1	21	0.06	< 10	< 10	60	< 10	52
21200E 17000MB	201	202	500	< 1	0.01	58	800	12	< 2	5	41	0.29	< 10	< 10	105	< 10	102
21200E 17000MC	201	202	275	< 1	< 0.01	35	670	10	< 2	5	28	0.16	< 10	< 10	97	< 10	64
21200E 17000MD	201	202	325	< 1	0.01	38	790	12	< 2	5	38	0.15	< 10	< 10	88	< 10	74
21200E 17000ME	201	202	345	< 1	0.02	40	930	10	< 2	5	50	0.18	< 10	< 10	85	< 10	68
21200E 17000M	201	202	295	< 1	< 0.01	25	480	16	< 2	3	20	0.08	< 10	< 10	66	< 10	74
21200E 17025M	201	202	405	< 1	< 0.01	51	650	12	2	6	39	0.19	< 10	< 10	144	< 10	130
21200E 17050M	201	202	130	< 1	< 0.01	13	580	14	< 2	1	19	0.10	< 10	< 10	93	< 10	56
21200E 17075M	201	202	255	< 1	< 0.01	19	700	14	2	3	17	0.07	< 10	< 10	67	< 10	78
21200E 17100M	201	202	255	< 1	< 0.01	21	670	16	< 2	3	19	0.07	< 10	< 10	71	< 10	76
21200E 17125M	201	202	145	< 1	< 0.01	15	420	16	< 2	1	18	0.06	< 10	< 10	68	< 10	76
21200E 17150M	201	202	215	< 1	< 0.01	27	400	18	2	3	19	0.08	< 10	< 10	86	< 10	146
21200E 17175M	201	202	120	< 1	< 0.01	18	500	20	< 2	3	19	0.06	< 10	< 10	76	< 10	96
21200E 17200M	201	202	115	< 1	< 0.01	15	330	20	< 2	3	16	0.06	< 10	< 10	72	< 10	100
21200E 17225M	201	202	255	< 1	< 0.01	48	710	32	2	3	27	0.07	< 10	< 10	98	< 10	278
21200E 17250M	201	202	350	< 1	< 0.01	27	1140	28	< 2	1	22	0.05	< 10	< 10	96	< 10	252
21200E 17275M	201	202	350	1	< 0.01	49	790	28	2	4	30	0.08	< 10	< 10	120	< 10	286
21200E 17300M	201	202	145	< 1	< 0.01	16	760	18	< 2	1	16	0.04	< 10	< 10	78	< 10	66
21200E 17325M	201	202	255	< 1	< 0.01	36	1420	22	2	2	31	0.04	< 10	< 10	90	< 10	222
21200E 17350M	201	202	230	< 1	< 0.01	37	450	26	2	4	17	0.07	< 10	< 10	202	< 10	292
21200E 17375M	201	202	125	< 1	< 0.01	22	470	8	2	3	16	0.05	< 10	< 10	108	< 10	150
21200E 17400M	201	202	265	< 1	< 0.01	33	630	10	2	4	16	0.06	< 10	< 10	107	< 10	220
21200E 17425M	201	202	305	1	< 0.01	39	320	14	< 2	4	14	0.07	< 10	< 10	221	< 10	350
21200E 17450M	201	202	315	4	< 0.01	33	200	14	< 2	4	16	0.08	< 10	< 10	165	< 10	440
21200E 17475M	201	202	415	1	< 0.01	25	810	24	< 2	4	23	0.05	< 10	< 10	74	< 10	146
21200E 17500M	201	202	435	< 1	< 0.01	18	690	8	< 2	3	24	0.05	< 10	< 10	73	< 10	108
21200E 17525M	201	202	220	< 1	< 0.01	21	700	8	< 2	3	24	0.06	< 10	< 10	74	< 10	118
21200E 17550M	201	202	195	< 1	< 0.01	50	650	8	< 2	4	23	0.06	< 10	< 10	163	< 10	314
21200E 17575M	201	202	310	< 1	< 0.01	92	1330	10	4	4	30	0.05	< 10	< 10	299	< 10	662
21200E 17600M	201	202	290	< 1	< 0.01	108	1560	10	6	4	36	0.03	< 10	< 10	379	< 10	884
21200E 17625M	201	202	280	1	< 0.01	42	1430	8	< 2	3	28	0.05	< 10	< 10	138	< 10	310
21200E 17650M	201	202	245	1	< 0.01	16	1500	12	< 2	1	16	0.04	< 10	< 10	104	< 10	132
21200E 17675M	201	202	320	1	< 0.01	30	1410	10	< 2	3	24	0.05	< 10	< 10	147	< 10	252
21200E 17700M	201	202	335	1	< 0.01	57	2220	12	2	3	29	0.06	< 10	< 10	323	< 10	654
21200E 17725M	201	202	305	< 1	< 0.01	21	900	10	< 2	1	19	0.04	< 10	< 10	93	< 10	142
21200E 17750M	201	202	225	1	< 0.01	29	920	6	< 2	3	26	0.06	< 10	< 10	117	< 10	160
21200E 17775M	201	202	135	1	< 0.01	42	1420	8	2	1	19	0.03	< 10	< 10	130	< 10	260
21200E 17800M	201	202	170	< 1	< 0.01	26	1240	8	2	3	18	0.05	< 10	< 10	105	< 10	166

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: VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Page Number: 15-A
 Total F: 7
 Certificate Date: 25-SEP-97
 Invoice No.: 19742956
 P.O. Number:
 Account: LDS

CERTIFICATE OF ANALYSIS

A9742956

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	
			FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	
21200E 17825N	201	202	< 5	30.00	< 0.2	1.76	6	220	< 0.5	< 2	0.22	1.0	5	38	22	2.23	< 10	60	0.06	10	0.48	
21200E 17850N	201	202	< 5	30.00	< 0.2	1.20	14	320	< 0.5	< 2	0.11	0.5	4	28	22	2.31	< 10	30	0.10	10	0.25	
21200E 17875N	201	202	< 5	30.00	< 0.2	1.76	8	240	< 0.5	< 2	0.16	< 0.5	5	31	23	2.62	< 10	50	0.07	10	0.39	
21200E 17900N	201	202	< 5	30.00	< 0.2	1.99	8	280	< 0.5	< 2	0.13	< 0.5	5	34	21	3.05	< 10	30	0.07	10	0.35	
21200E 17925N	201	202	< 5	30.00	< 0.2	2.25	10	320	< 0.5	< 2	0.13	< 0.5	6	45	24	3.86	< 10	60	0.07	10	0.48	
21200E 17950N	201	202	< 5	30.00	0.2	2.76	8	240	< 0.5	< 2	0.15	0.5	10	42	20	3.36	< 10	40	0.08	10	0.43	
21200E 17975N	201	202	< 5	30.00	< 0.2	2.06	4	320	< 0.5	< 2	0.11	< 0.5	5	33	14	2.49	< 10	30	0.09	10	0.35	
21400E 16000N	201	202	< 5	30.00	0.2	2.11	30	260	0.5	< 2	0.19	< 0.5	7	30	11	2.61	< 10	20	0.06	10	0.50	
21400E 16025N	201	202	< 5	30.00	0.2	1.59	32	230	< 0.5	< 2	0.29	0.5	7	31	10	2.35	< 10	20	0.12	10	0.45	
21400E 16050N	201	202	20	30.00	0.6	2.23	378	460	1.0	< 2	0.39	0.5	17	44	25	3.63	< 10	20	0.13	20	0.82	
21400E 16075N	201	202	< 5	30.00	< 0.2	1.83	30	210	< 0.5	< 2	0.22	< 0.5	7	30	17	2.46	< 10	30	0.05	10	0.51	
21400E 16100N	201	202	< 5	30.00	0.2	1.84	16	220	< 0.5	< 2	0.22	< 0.5	6	33	18	2.52	< 10	20	0.06	10	0.58	
21400E 16125N	201	202	< 5	30.00	0.2	1.96	16	230	0.5	< 2	0.16	< 0.5	11	34	19	2.87	< 10	50	0.07	20	0.53	
21400E 16150N	201	202	70	30.00	0.2	3.09	294	270	3.5	< 2	0.19	< 0.5	20	26	36	8.00	10	40	0.39	80	0.68	
21400E 16175N	201	202	40	30.00	0.2	2.54	112	140	1.5	< 2	0.13	< 0.5	9	30	21	4.07	< 10	30	0.11	20	0.54	
21400E 16200N	201	202	40	30.00	0.4	2.71	54	170	0.5	< 2	0.11	< 0.5	9	34	16	3.47	< 10	20	0.06	10	0.51	
21400E 16225N	201	202	< 5	30.00	< 0.2	2.61	14	150	0.5	< 2	0.09	< 0.5	9	34	16	3.29	< 10	10	0.05	10	0.51	
21400E 16250N	201	202	5	30.00	< 0.2	2.51	34	140	< 0.5	< 2	0.11	< 0.5	6	32	11	3.26	< 10	20	0.04	10	0.49	
21400E 16275N	201	202	10	30.00	< 0.2	2.68	30	160	0.5	< 2	0.11	< 0.5	6	31	14	3.14	< 10	30	0.05	30	0.34	
21400E 16300N	201	202	10	30.00	< 0.2	1.17	44	100	0.5	< 2	0.12	< 0.5	3	15	13	2.87	< 10	20	0.10	40	0.21	
21400E 16325N	201	202	< 5	10.00	< 0.2	1.48	20	110	0.5	< 2	0.15	< 0.5	5	26	17	2.82	< 10	40	0.10	30	0.43	
21400E 16350N	201	202	< 5	30.00	< 0.2	2.30	22	100	0.5	< 2	0.12	< 0.5	6	33	15	3.82	< 10	40	0.06	10	0.45	
21400E 16375N	201	202	< 5	30.00	< 0.2	0.93	22	50	< 0.5	< 2	0.05	< 0.5	2	12	11	2.87	< 10	10	0.11	10	0.21	
21400E 16400N	201	202	< 5	30.00	< 0.2	1.62	24	110	1.0	< 2	0.15	< 0.5	6	26	13	3.98	< 10	20	0.11	50	0.42	
21400E 16425N	201	202	20	30.00	< 0.2	1.52	42	130	0.5	< 2	0.21	< 0.5	5	41	25	2.89	< 10	10	0.11	30	0.54	
21400E 16450N	201	202	< 5	10.00	< 0.2	1.33	18	140	0.5	< 2	0.26	< 0.5	4	25	26	2.56	< 10	20	0.25	30	0.50	
21400E 16475N	201	202	not/SS	not/SS	< 0.2	0.59	6	140	< 0.5	< 2	0.10	< 0.5	2	16	19	0.98	< 10	20	0.07	10	0.11	
21400E 16500N	201	202	< 5	30.00	< 0.2	1.66	34	200	1.0	< 2	0.42	< 0.5	12	32	28	3.86	< 10	10	0.39	50	0.74	
21400E 16525N	201	202	< 5	30.00	< 0.2	1.42	10	260	0.5	< 2	0.40	< 0.5	6	26	19	2.22	< 10	30	0.08	30	0.50	
21400E 16550N	201	202	< 5	30.00	< 0.2	1.43	8	150	0.5	< 2	0.27	< 0.5	5	33	25	2.46	< 10	30	0.07	30	0.49	
21400E 16575N	201	202	< 5	10.00	< 0.2	0.66	6	90	< 0.5	< 2	0.16	< 0.5	2	18	13	1.18	< 10	30	0.07	10	0.20	
21400E 16600N	201	202	< 5	30.00	< 0.2	1.60	10	170	1.5	< 2	0.74	< 0.5	12	54	43	4.10	< 10	10	0.37	70	1.04	
21400E 16625N	201	202	< 5	30.00	< 0.2	1.53	16	160	0.5	< 2	0.35	< 0.5	7	34	20	3.08	< 10	10	0.09	30	0.67	
21400E 16650N	201	202	< 5	30.00	< 0.2	1.09	12	110	0.5	< 2	0.15	< 0.5	4	27	20	2.23	< 10	30	0.08	20	0.39	
21400E 16675N	201	202	< 5	10.00	< 0.2	1.53	24	250	0.5	< 2	0.27	< 0.5	6	42	27	2.98	< 10	20	0.18	40	0.67	
21400E 16700N	201	202	not/SS	not/SS	< 0.2	0.88	8	190	0.5	< 2	0.18	0.5	3	23	26	1.45	< 10	40	0.10	30	0.24	
21400E 16725N	201	202	< 5	30.00	0.2	1.75	42	190	1.5	< 2	0.55	< 0.5	12	41	41	4.01	< 10	20	0.28	60	0.86	
21400E 16750N	201	202	< 5	30.00	< 0.2	1.63	14	220	1.5	< 2	0.49	< 0.5	9	34	39	3.71	< 10	10	0.36	50	0.92	
21400E 16775N	201	202	< 5	10.00	< 0.2	1.31	16	170	0.5	< 2	0.23	0.5	6	32	36	2.82	< 10	40	0.11	20	0.61	
21400E 16800N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION: *Heath Beckett*



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page No. 5-B
 Total P. 7
 Certificate Date: 25-SEP-97
 Invoice No. 19742956
 P.O. Number
 Account LDS

Project: BREWERY CREEK
 Comments: ATTN:RICK DIMENT

CERTIFICATE OF ANALYSIS A9742956

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21200E 17825N	201	202	170	< 1	< 0.01	30	1530	4	< 2	3	20	0.03	< 10	< 10	173	< 10	194
21200E 17850N	201	202	180	4	< 0.01	18	900	10	< 2	1	27	0.03	< 10	< 10	199	< 10	84
21200E 17875N	201	202	155	1	< 0.01	18	870	6	< 2	2	22	0.04	< 10	< 10	128	< 10	66
21200E 17900N	201	202	280	1	< 0.01	13	940	10	2	3	19	0.05	< 10	< 10	152	< 10	58
21200E 17925N	201	202	240	3	< 0.01	17	1170	10	2	3	30	0.05	< 10	< 10	244	< 10	68
21200E 17950N	201	202	370	< 1	< 0.01	16	1010	10	< 2	4	18	0.07	< 10	< 10	147	< 10	138
21200E 17975N	201	202	205	< 1	< 0.01	12	660	8	< 2	3	24	0.05	< 10	< 10	122	< 10	62
21400E 16000N	201	202	175	< 1	< 0.01	18	270	10	< 2	3	21	0.09	< 10	< 10	65	< 10	66
21400E 16025N	201	202	245	< 1	< 0.01	17	450	10	< 2	3	26	0.12	< 10	< 10	70	< 10	88
21400E 16050N	201	202	1405	< 1	< 0.01	25	760	10	< 2	4	75	0.15	< 10	< 10	94	< 10	104
21400E 16075N	201	202	240	< 1	< 0.01	17	440	10	< 2	3	20	0.07	< 10	< 10	57	< 10	54
21400E 16100N	201	202	205	< 1	< 0.01	19	420	10	< 2	4	27	0.09	< 10	< 10	81	< 10	74
21400E 16125N	201	202	620	< 1	< 0.01	17	330	14	< 2	4	24	0.10	< 10	< 10	87	< 10	78
21400E 16150N	201	202	1395	1	< 0.01	12	1220	48	2	5	49	0.29	< 10	< 10	112	< 10	250
21400E 16175N	201	202	370	1	< 0.01	20	580	22	< 2	3	22	0.08	< 10	< 10	62	< 10	98
21400E 16200N	201	202	420	< 1	< 0.01	18	610	18	< 2	3	14	0.06	< 10	< 10	65	< 10	96
21400E 16225N	201	202	270	< 1	< 0.01	19	280	16	< 2	4	13	0.07	< 10	< 10	57	< 10	68
21400E 16250N	201	202	240	< 1	< 0.01	15	310	14	< 2	3	17	0.06	< 10	< 10	57	< 10	50
21400E 16275N	201	202	275	< 1	< 0.01	11	370	14	2	4	17	0.07	< 10	< 10	72	< 10	44
21400E 16300N	201	202	185	1	< 0.01	6	740	34	2	1	23	0.07	< 10	< 10	56	< 10	56
21400E 16325N	201	202	245	1	< 0.01	12	510	22	< 2	3	26	0.08	< 10	< 10	59	< 10	62
21400E 16350N	201	202	340	< 1	< 0.01	14	630	38	2	3	16	0.07	< 10	< 10	52	< 10	64
21400E 16375N	201	202	215	< 1	< 0.01	5	530	22	< 2	1	10	0.09	< 10	< 10	57	< 10	50
21400E 16400N	201	202	385	1	< 0.01	10	920	32	< 2	2	22	0.09	< 10	< 10	58	< 10	82
21400E 16425N	201	202	170	< 1	< 0.01	14	740	16	< 2	4	24	0.12	< 10	< 10	71	< 10	64
21400E 16450N	201	202	185	< 1	< 0.01	10	660	18	< 2	1	33	0.05	< 10	< 10	47	< 10	68
21400E 16475N	201	202	55	< 1	0.01	6	410	12	< 2	< 1	28	0.02	< 10	< 10	30	< 10	20
21400E 16500N	201	202	415	1	< 0.01	16	1030	30	< 2	4	36	0.14	< 10	< 10	100	< 10	128
21400E 16525N	201	202	200	< 1	< 0.01	15	690	10	< 2	4	46	0.08	< 10	< 10	55	< 10	56
21400E 16550N	201	202	165	< 1	< 0.01	13	760	14	< 2	3	32	0.08	< 10	< 10	57	< 10	54
21400E 16575N	201	202	60	< 1	< 0.01	7	420	14	< 2	1	28	0.05	< 10	< 10	32	< 10	28
21400E 16600N	201	202	390	< 1	< 0.01	20	1180	18	< 2	7	51	0.10	< 10	< 10	126	< 10	86
21400E 16625N	201	202	210	< 1	< 0.01	14	980	14	< 2	5	30	0.12	< 10	< 10	79	< 10	64
21400E 16650N	201	202	115	< 1	< 0.01	11	570	12	< 2	3	20	0.09	< 10	< 10	62	< 10	40
21400E 16675N	201	202	175	< 1	< 0.01	15	640	16	< 2	5	32	0.19	< 10	< 10	91	< 10	64
21400E 16700N	201	202	85	< 1	< 0.01	8	530	14	< 2	3	35	0.09	< 10	< 10	47	< 10	32
21400E 16725N	201	202	460	< 1	< 0.01	17	1390	18	2	6	43	0.15	< 10	< 10	116	< 10	78
21400E 16750N	201	202	315	< 1	< 0.01	16	1220	16	< 2	6	36	0.17	< 10	< 10	112	< 10	86
21400E 16775N	201	202	205	1	< 0.01	20	770	24	< 2	4	40	0.16	< 10	< 10	115	< 10	112
21400E 16800N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: BREWERY CREEK
Comments: ATTN: RICK DIMENT

Passport # 16-A
Total # 7
Cert. Date: 25-SEP-97
Invoice No: 19742956
P.O. Number
Account: LDS

CERTIFICATE OF ANALYSIS A9742956

SAMPLE	PREP		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	CODE		FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
21400E 16825N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21400E 16850N	201	202	< 5	10.00	0.2	3.19	12	1760	0.5	< 2	0.52	< 0.5	14	83	29	3.84	< 10	30	0.21	10	1.20
21400E 16875N	201	202	< 5	30.00	0.4	3.15	60	1890	0.5	< 2	0.62	7.5	12	73	48	5.08	< 10	40	0.13	10	1.22
21400E 16900N	201	202	< 5	30.00	0.4	3.86	68	2070	0.5	< 2	1.26	6.5	27	79	68	4.66	< 10	60	0.17	10	1.40
21400E 16925N	201	202	< 5	30.00	0.2	3.59	20	1150	0.5	< 2	0.46	0.5	21	80	31	4.88	< 10	30	0.09	10	1.60
21400E 16950N	201	202	< 5	30.00	< 0.2	2.53	8	320	< 0.5	< 2	0.16	< 0.5	11	46	21	3.24	< 10	40	0.07	10	0.72
21400E 16975N	201	202	< 5	10.00	< 0.2	2.77	10	670	0.5	< 2	0.50	< 0.5	20	145	39	4.25	< 10	30	0.14	10	0.81
21400E 17000N	201	202	< 5	30.00	< 0.2	1.55	2	180	< 0.5	< 2	0.19	2.5	6	24	12	2.33	< 10	20	0.07	10	0.41
21400E 17000NYIP	201	202	< 5	30.00	0.2	3.29	16	2300	0.5	< 2	0.63	0.5	21	95	47	3.99	< 10	20	0.30	10	1.36
21400E 17025N	201	202	< 5	30.00	1.0	2.84	< 2	780	< 0.5	< 2	0.46	1.0	17	77	33	3.58	< 10	60	0.08	10	0.93
21400E 17050N	201	202	< 5	30.00	0.6	2.52	< 2	550	0.5	< 2	1.03	< 0.5	16	66	43	2.63	< 10	90	0.06	10	1.08
21400E 17075N	201	202	< 5	30.00	0.4	3.65	< 2	1430	1.0	< 2	1.79	1.0	18	108	55	4.02	< 10	120	0.21	20	1.75
21400E 17100N	201	202	< 5	30.00	0.2	2.92	6	630	1.5	< 2	1.18	1.0	9	78	58	3.58	< 10	140	0.10	30	0.99
21400E 17125N	201	202	< 5	30.00	0.2	4.74	16	2090	1.5	< 2	1.60	< 0.5	21	213	53	6.70	10	40	0.40	20	1.31
21400E 17150N	201	202	10	30.00	< 0.2	3.16	< 2	150	0.5	< 2	0.46	< 0.5	7	46	31	2.82	< 10	20	0.12	10	1.60
21400E 17175N	201	202	< 5	30.00	0.2	3.36	< 2	220	0.5	< 2	1.50	1.0	9	41	39	2.73	< 10	70	0.14	10	1.92
21400E 17200N	201	202	< 5	30.00	0.6	1.61	8	310	0.5	< 2	0.31	1.0	6	26	15	2.15	< 10	30	0.05	10	0.41
21400E 17225N	201	202	< 5	30.00	1.0	2.37	< 2	320	0.5	< 2	0.23	3.0	9	32	23	2.49	< 10	30	0.06	10	0.53
21400E 17250N	201	202	< 5	30.00	0.2	2.16	6	150	0.5	< 2	0.14	1.0	7	30	10	2.79	< 10	20	0.04	< 10	0.46
21400E 17275N	201	202	< 5	30.00	0.4	2.23	4	230	0.5	< 2	0.32	0.5	8	38	24	2.80	< 10	30	0.05	10	0.64
21400E 17300N	201	202	< 5	30.00	0.4	2.19	6	220	< 0.5	< 2	0.16	< 0.5	7	35	16	2.76	< 10	30	0.04	10	0.53
21400E 17325N	201	202	< 5	30.00	0.2	1.95	< 2	240	< 0.5	< 2	0.33	< 0.5	7	39	21	2.47	< 10	40	0.05	10	0.60
21400E 17350N	201	202	< 5	30.00	0.2	2.26	6	220	< 0.5	< 2	0.29	< 0.5	7	39	17	2.62	< 10	30	0.06	10	0.66
21400E 17375N	201	202	< 5	30.00	< 0.2	2.00	2	190	< 0.5	< 2	0.23	< 0.5	5	34	14	2.44	< 10	30	0.06	10	0.52
21400E 17400N	201	202	< 5	30.00	< 0.2	2.28	10	230	< 0.5	< 2	0.30	< 0.5	7	42	21	2.81	< 10	30	0.07	10	0.73
21400E 17425N	201	202	< 5	30.00	0.2	2.32	4	250	< 0.5	< 2	0.28	< 0.5	6	38	18	2.61	< 10	30	0.06	10	0.64
21400E 17450N	201	202	< 5	30.00	0.6	2.35	6	330	< 0.5	< 2	0.29	< 0.5	7	39	21	2.75	< 10	30	0.05	10	0.64
21400E 17475N	201	202	< 5	30.00	0.6	2.44	< 2	340	< 0.5	< 2	0.52	0.5	7	51	24	2.78	< 10	70	0.06	10	0.93
21400E 17500N	201	202	< 5	30.00	0.6	2.36	12	330	0.5	< 2	0.37	1.0	8	40	24	2.83	< 10	30	0.06	10	0.77
21400E 17525N	201	202	< 5	30.00	1.2	2.38	8	350	0.5	< 2	0.32	1.5	6	36	16	3.04	< 10	30	0.06	10	0.47
21400E 17550N	201	202	< 5	30.00	0.8	1.74	2	190	< 0.5	< 2	0.19	0.5	5	28	9	2.48	< 10	20	0.05	10	0.40
21400E 17575N	201	202	< 5	30.00	1.0	2.53	12	310	0.5	< 2	0.28	< 0.5	8	35	18	3.01	< 10	50	0.05	10	0.60
21400E 17600N	201	202	< 5	30.00	0.2	2.80	10	190	0.5	< 2	0.16	< 0.5	9	39	16	3.39	< 10	40	0.04	10	0.53
21400E 17625N	201	202	< 5	10.00	0.6	1.81	< 2	240	0.5	< 2	0.89	4.0	7	34	43	1.97	< 10	90	0.04	10	0.57
21400E 17650N	201	202	< 5	30.00	0.2	1.66	6	190	0.5	< 2	0.30	2.0	6	23	15	2.52	< 10	40	0.05	< 10	0.40
21400E 17675N	201	202	< 5	10.00	0.2	1.31	6	230	0.5	< 2	0.55	8.5	8	18	22	1.96	< 10	70	0.08	< 10	0.38
21400E 17700N	201	202	20	30.00	0.2	2.49	12	300	1.0	< 2	0.36	2.5	7	38	37	2.96	< 10	170	0.06	10	0.85
21400E 17725N	201	202	< 5	30.00	2.4	2.68	12	330	1.5	< 2	1.85	3.0	9	74	67	2.65	< 10	210	0.06	30	1.12
21400E 17750N	201	202	20	30.00	< 0.2	1.83	12	170	< 0.5	< 2	0.26	0.5	7	33	15	3.31	< 10	20	0.07	10	0.60
21400E 17775N	201	202	< 5	30.00	< 0.2	1.87	2	270	< 0.5	< 2	0.29	0.5	4	34	23	2.21	< 10	60	0.07	10	0.52

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: BREWERY CREEK
Comments: ATTN:RICK DIMENT

Page No. 6-B
Total F 7
Certificate Date 25-SEP-97
Invoice No. 19742956
P.O. Number
Account LDS

CERTIFICATE OF ANALYSIS

A9742956

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21400E 16825N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
21400E 16850N	201	202	270	< 1	0.01	49	1110	14	< 2	6	65	0.23	< 10	< 10	105	< 10	92
21400E 16875N	201	202	265	2	0.01	51	860	24	8	8	192	0.18	< 10	< 10	207	< 10	164
21400E 16900N	201	202	700	1	0.01	84	1000	36	10	6	259	0.19	< 10	< 10	334	< 10	402
21400E 16925N	201	202	340	< 1	< 0.01	81	530	12	< 2	5	69	0.20	< 10	< 10	111	< 10	94
21400E 16950N	201	202	285	< 1	< 0.01	33	600	14	< 2	4	19	0.10	< 10	< 10	74	< 10	72
21400E 16975N	201	202	255	< 1	< 0.01	97	1210	2	< 2	7	53	0.16	< 10	< 10	109	< 10	74
21400E 17000N	201	202	210	< 1	< 0.01	17	310	12	< 2	2	18	0.06	< 10	< 10	62	< 10	118
21400E 17000NYIP	201	202	425	< 1	0.01	77	1140	42	6	6	121	0.19	< 10	< 10	170	< 10	272
21400E 17025N	201	202	445	4	< 0.01	47	1210	20	< 2	5	69	0.16	< 10	< 10	156	< 10	116
21400E 17050N	201	202	335	1	< 0.01	54	1130	14	< 2	5	88	0.12	< 10	< 10	97	< 10	138
21400E 17075N	201	202	385	< 1	< 0.01	74	1670	10	4	9	242	0.22	< 10	< 10	130	< 10	136
21400E 17100N	201	202	125	1	< 0.01	81	1400	16	8	8	161	0.09	< 10	< 10	85	< 10	94
21400E 17125N	201	202	215	1	< 0.01	73	3370	18	8	10	1220	0.13	< 10	< 10	137	< 10	90
21400E 17150N	201	202	165	< 1	< 0.01	28	180	14	< 2	5	46	0.12	< 10	< 10	69	< 10	82
21400E 17175N	201	202	235	< 1	< 0.01	33	1050	20	2	5	71	0.10	< 10	< 10	65	< 10	146
21400E 17200N	201	202	240	< 1	< 0.01	21	450	16	< 2	2	31	0.05	< 10	< 10	64	< 10	156
21400E 17225N	201	202	570	< 1	< 0.01	33	490	16	< 2	3	24	0.07	< 10	< 10	74	< 10	216
21400E 17250N	201	202	270	< 1	< 0.01	22	650	14	< 2	3	13	0.05	< 10	< 10	73	< 10	218
21400E 17275N	201	202	305	< 1	< 0.01	42	740	14	< 2	3	33	0.05	< 10	< 10	83	< 10	258
21400E 17300N	201	202	215	< 1	< 0.01	20	400	10	< 2	4	16	0.06	< 10	< 10	69	< 10	110
21400E 17325N	201	202	240	< 1	< 0.01	28	540	14	< 2	3	26	0.07	< 10	< 10	87	< 10	144
21400E 17350N	201	202	230	< 1	< 0.01	23	430	10	< 2	4	26	0.08	< 10	< 10	72	< 10	98
21400E 17375N	201	202	175	< 1	< 0.01	17	430	12	2	3	21	0.07	< 10	< 10	64	< 10	70
21400E 17400N	201	202	205	< 1	< 0.01	26	680	18	< 2	4	26	0.08	< 10	< 10	81	< 10	112
21400E 17425N	201	202	185	< 1	< 0.01	20	350	14	< 2	4	23	0.09	< 10	< 10	72	< 10	96
21400E 17450N	201	202	305	< 1	< 0.01	22	400	16	< 2	4	21	0.08	< 10	< 10	83	< 10	104
21400E 17475N	201	202	365	< 1	< 0.01	30	710	12	< 2	4	32	0.10	< 10	< 10	115	< 10	148
21400E 17500N	201	202	315	< 1	< 0.01	31	540	14	2	4	23	0.08	< 10	< 10	88	< 10	128
21400E 17525N	201	202	375	< 1	< 0.01	15	440	12	< 2	4	23	0.11	< 10	< 10	100	< 10	180
21400E 17550N	201	202	215	1	< 0.01	12	400	10	< 2	3	17	0.08	< 10	< 10	72	< 10	88
21400E 17575N	201	202	230	< 1	< 0.01	25	270	8	< 2	4	21	0.08	< 10	< 10	69	< 10	74
21400E 17600N	201	202	265	< 1	< 0.01	25	440	10	< 2	4	14	0.07	< 10	< 10	73	< 10	106
21400E 17625N	201	202	515	1	0.01	35	1290	16	< 2	1	50	0.03	< 10	< 10	67	< 10	156
21400E 17650N	201	202	345	2	< 0.01	15	710	12	< 2	1	20	0.03	< 10	< 10	54	< 10	80
21400E 17675N	201	202	505	4	0.01	18	1210	10	< 2	< 1	25	0.03	< 10	< 10	50	< 10	130
21400E 17700N	201	202	265	1	< 0.01	42	600	10	4	4	22	0.07	< 10	< 10	121	< 10	304
21400E 17725N	201	202	490	< 1	< 0.01	89	2270	12	< 2	5	53	0.05	< 10	< 10	108	< 10	302
21400E 17750N	201	202	265	< 1	< 0.01	21	880	10	< 2	3	19	0.08	< 10	< 10	101	< 10	126
21400E 17775N	201	202	140	< 1	< 0.01	22	690	8	< 2	2	23	0.05	< 10	< 10	85	< 10	104

CERTIFICATION: Hart Buehler



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project : BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Page: 7-A
 Total F: 7
 Certificate Date: 25-SEP-97
 Invoice No.: 19742956
 P.O. Number:
 Account: LDS

CERTIFICATE OF ANALYSIS A9742956

SAMPLE	PREP CODE		Au ppb fusion	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	
			FA+AA wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	
21400E 17800N	201	202	5 30.00	0.2	1.87	2	240	< 0.5	< 2	0.35	< 0.5	5	37	19	2.36	< 10	50	0.05	10	0.61	
21400E 17825N	201	202	< 5 30.00	< 0.2	2.13	2	210	< 0.5	< 2	0.32	< 0.5	7	55	24	2.81	< 10	100	0.06	10	0.63	
21400E 17850N	201	202	< 5 30.00	< 0.2	2.07	2	240	0.5	< 2	0.20	0.5	2	47	20	1.86	< 10	100	0.07	10	0.27	
21400E 17875N	201	202	< 5 30.00	< 0.2	2.39	< 2	230	< 0.5	< 2	0.37	0.5	8	53	25	2.75	< 10	50	0.08	10	0.67	
21400E 17900N	201	202	< 5 30.00	< 0.2	1.58	2	140	< 0.5	< 2	0.13	< 0.5	3	31	8	1.89	< 10	40	0.06	10	0.27	
21400E 17925N	201	202	< 5 30.00	< 0.2	1.86	2	290	< 0.5	< 2	0.12	< 0.5	4	56	17	2.50	< 10	20	0.06	10	0.39	
21400E 17950N	201	202	< 5 30.00	< 0.2	1.94	8	470	0.5	< 2	0.08	0.5	4	45	35	2.58	< 10	50	0.05	30	0.51	
21400E 17975N	201	202	< 5 30.00	< 0.2	1.50	6	280	0.5	< 2	0.13	0.5	4	28	32	2.36	< 10	60	0.04	20	0.34	
21400E 18000N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION: [Signature]



Chemex Labs Ltd.

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

TO: VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Page Number: 17-B
 Total Pages: 17
 Certificate No: 25-SEP-97
 Invoice No: 19742956
 P.O. Number:
 Account: LDS

CERTIFICATE OF ANALYSIS A9742956

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
21400E 17800N	201	202	145	< 1	< 0.01	26	520	8	< 2	3	23	0.08	< 10	< 10	85	< 10	110
21400E 17825N	201	202	220	< 1	< 0.01	46	1440	8	< 2	3	22	0.05	< 10	< 10	104	< 10	276
21400E 17850N	201	202	75	< 1	< 0.01	19	2650	10	< 2	< 1	20	< 0.01	< 10	< 10	69	< 10	110
21400E 17875N	201	202	275	< 1	< 0.01	45	1410	6	< 2	4	28	0.05	< 10	< 10	112	< 10	238
21400E 17900N	201	202	90	< 1	< 0.01	12	1430	8	< 2	< 1	16	0.01	< 10	< 10	80	< 10	56
21400E 17925N	201	202	185	< 1	< 0.01	23	1170	10	< 2	3	24	0.05	< 10	< 10	287	< 10	130
21400E 17950N	201	202	160	1	< 0.01	24	960	14	4	4	39	0.03	< 10	< 10	215	< 10	142
21400E 17975N	201	202	160	5	< 0.01	17	1260	10	8	< 1	27	0.01	< 10	< 10	133	< 10	102
21400E 18000N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION: _____



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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Page: 1-A
 Total F: 4
 Certificate Date: 26-SEP-97
 Invoice No.: 19742959
 P.O. Number:
 Account: LDS

CERTIFICATE OF ANALYSIS A9742959

SAMPLE	PREP CODE		Au ppb fusion	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
22200E 17125N	201	202	< 5 30.00	< 0.2	2.94	30	300	1.5	< 2	0.15	0.5	15	101	35	4.80	10	20	0.15	10	0.77
22200E 17150N	201	202	< 5 30.00	< 0.2	2.48	16	220	0.5	< 2	0.12	< 0.5	11	117	19	5.30	10	20	0.08	10	0.45
22200E 17175N	201	202	< 5 30.00	< 0.2	1.71	12	170	< 0.5	< 2	0.21	< 0.5	6	40	14	2.56	< 10	20	0.07	10	0.39
22200E 17200N	201	202	< 5 10.00	0.2	1.75	< 2	570	0.5	< 2	0.52	< 0.5	10	37	29	1.92	< 10	90	0.03	10	0.19
22200E 17225N	201	202	not/ss not/ss	< 0.2	0.24	< 2	230	< 0.5	< 2	3.13	< 0.5	1	3	9	0.23	< 10	70	0.01	< 10	0.05
22200E 17250N	201	202	< 5 15.00	< 0.2	1.56	2	240	< 0.5	< 2	3.21	0.5	10	29	25	2.53	< 10	50	0.03	10	0.32
22200E 17275N	201	202	< 5 15.00	< 0.2	1.22	4	160	0.5	< 2	0.19	1.5	6	18	26	1.85	< 10	30	0.06	10	0.23
22200E 17300N	201	202	< 5 15.00	< 0.2	1.12	12	150	< 0.5	< 2	0.12	< 0.5	3	23	12	1.95	< 10	40	0.05	10	0.31
22200E 17325N	201	202	not/ss not/ss	< 0.2	0.38	< 2	120	< 0.5	< 2	0.20	0.5	1	7	10	0.56	< 10	90	0.04	< 10	0.06
22200E 17350N	201	202	< 5 15.00	< 0.2	0.79	< 2	230	0.5	< 2	0.06	0.5	1	13	24	0.85	< 10	30	0.04	10	0.08
22200E 17375N	201	202	< 5 10.00	0.2	1.11	< 2	220	0.5	< 2	0.09	0.5	3	15	19	1.41	< 10	110	0.05	10	0.12
22200E 17400N	201	202	< 5 15.00	0.6	1.80	8	450	1.5	< 2	0.57	1.5	5	26	37	1.90	< 10	100	0.07	20	0.37
22200E 17425N	201	202	< 5 30.00	< 0.2	2.84	18	410	0.5	< 2	0.50	0.5	11	40	25	2.92	< 10	50	0.09	20	0.91
22200E 17450N	201	202	< 5 30.00	< 0.2	1.24	14	150	< 0.5	< 2	0.35	< 0.5	4	21	12	1.84	< 10	40	0.05	10	0.30
22200E 17475N	201	202	< 5 15.00	0.2	1.98	26	500	0.5	< 2	0.43	1.0	11	29	35	3.12	10	60	0.07	20	0.56
22200E 17500N	201	202	< 5 10.00	< 0.2	2.23	12	680	0.5	< 2	0.54	0.5	9	35	13	2.30	< 10	20	0.05	10	1.24
22200E 17525N	201	202	< 5 10.00	0.2	1.04	10	290	0.5	< 2	3.48	2.0	5	15	23	1.13	< 10	100	0.03	10	0.34
22200E 17550N	201	202	5 5.00	< 0.2	0.54	8	150	< 0.5	< 2	3.17	1.5	4	10	17	0.59	< 10	100	0.03	< 10	0.15
22200E 17575N	201	202	not/ss not/ss	0.4	0.83	22	210	< 0.5	< 2	2.70	2.0	6	15	22	0.96	< 10	90	0.03	< 10	0.22
22200E 17600N	201	202	10 15.00	1.2	1.61	18	280	1.0	< 2	1.81	0.5	10	25	41	1.47	< 10	130	0.05	10	0.97
22200E 17625N	201	202	< 5 15.00	0.2	1.05	6	170	0.5	< 2	4.31	3.0	7	13	23	0.83	< 10	80	0.03	10	0.16
22200E 17650N	201	202	< 5 15.00	0.4	1.30	10	240	0.5	< 2	3.93	2.5	6	21	30	1.27	< 10	100	0.05	10	0.57
22200E 17675N	201	202	< 5 15.00	0.2	1.69	12	530	0.5	< 2	3.13	3.0	8	29	30	1.76	< 10	80	0.05	20	0.70
22200E 17700N	201	202	< 5 10.00	0.8	0.94	32	140	0.5	< 2	2.66	6.5	5	25	48	1.08	< 10	120	0.04	10	0.39
22200E 17725N	201	202	< 5 30.00	0.6	1.86	8	230	0.5	< 2	0.79	5.0	6	48	36	2.20	< 10	50	0.04	10	0.76
22200E 17750N	201	202	< 5 30.00	0.2	1.95	14	210	0.5	< 2	0.74	4.0	7	52	48	2.17	< 10	40	0.04	10	0.74
22200E 17775N	201	202	< 5 30.00	1.8	1.69	20	170	< 0.5	< 2	0.46	2.0	4	53	54	2.13	< 10	60	0.05	10	0.59
22200E 17800N	201	202	< 5 30.00	0.8	1.45	6	220	< 0.5	< 2	0.39	3.5	5	39	32	2.07	< 10	50	0.05	10	0.47
22200E 17825N	201	202	< 5 30.00	0.2	2.06	8	320	< 0.5	< 2	0.76	4.0	8	54	37	2.47	< 10	20	0.05	10	0.68
22200E 17850N	201	202	< 5 30.00	0.2	2.13	18	190	0.5	2	0.41	2.0	7	44	21	2.65	< 10	10	0.04	10	0.49
22200E 17875N	201	202	< 5 30.00	0.4	1.53	14	180	< 0.5	< 2	0.20	2.5	6	32	15	2.25	< 10	70	0.04	10	0.34
22200E 17900N	201	202	< 5 30.00	< 0.2	1.66	16	200	< 0.5	< 2	0.77	2.5	7	48	26	2.30	< 10	10	0.05	10	0.45
22200E 17925N	201	202	< 5 30.00	0.6	1.82	8	360	0.5	< 2	0.46	3.5	8	39	15	2.83	< 10	20	0.03	< 10	0.47
22200E 17950N	201	202	< 5 30.00	0.6	2.48	10	310	0.5	< 2	0.40	6.5	10	65	55	3.53	< 10	20	0.04	10	0.81
22200E 17975N	201	202	< 5 30.00	0.2	1.68	8	220	< 0.5	< 2	1.12	6.5	7	82	55	2.04	< 10	30	0.04	10	1.43
22200E 18000N	201	202	< 5 30.00	1.4	1.77	8	300	1.0	< 2	0.48	14.5	6	46	53	2.07	< 10	50	0.05	20	0.65
22400E 17150N	--	--	NotRed NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22400E 17175N	--	--	NotRed NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22400E 17200N	201	202	< 5 15.00	0.2	1.61	6	250	< 0.5	< 2	0.54	1.5	6	46	36	2.61	< 10	80	0.07	10	0.55
22400E 17225N	201	202	< 5 15.00	0.2	2.03	8	510	0.5	< 2	1.86	1.0	18	60	33	2.88	< 10	50	0.06	10	0.57

CERTIFICATION:



Chemex Labs Ltd.

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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: BREWERY CREEK
 Comments: ATTN:RICK DIMENT

Page: 1-B
 Total P: 4
 Certificate Date: 26-SEP-97
 Invoice No.: I9742959
 P.O. Number:
 Account: LDS

CERTIFICATE OF ANALYSIS A9742959

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
22200E 17125N	201	202	280	< 1	< 0.01	51	540	12	< 2	6	24	0.18	< 10	< 10	120	< 10	72
22200E 17150N	201	202	230	< 1	< 0.01	38	740	10	6	5	13	0.19	< 10	< 10	140	< 10	68
22200E 17175N	201	202	135	< 1	< 0.01	19	590	8	< 2	3	20	0.08	< 10	< 10	69	< 10	44
22200E 17200N	201	202	60	< 1	0.01	40	1170	4	< 2	3	69	0.05	< 10	< 10	25	< 10	18
22200E 17225N	201	202	205	< 1	0.01	7	730	< 2	< 2	< 1	108	< 0.01	< 10	< 10	20	< 10	8
22200E 17250N	201	202	455	< 1	0.01	46	1190	6	2	3	105	0.05	< 10	< 10	30	< 10	44
22200E 17275N	201	202	230	< 1	< 0.01	13	690	8	< 2	1	19	0.03	< 10	< 10	38	< 10	42
22200E 17300N	201	202	180	< 1	< 0.01	10	420	12	< 2	2	13	0.06	< 10	< 10	60	< 10	38
22200E 17325N	201	202	120	< 1	0.01	5	1140	6	< 2	< 1	14	0.01	< 10	< 10	14	< 10	32
22200E 17350N	201	202	30	< 1	0.01	8	640	12	< 2	< 1	12	< 0.01	< 10	< 10	21	< 10	10
22200E 17375N	201	202	55	< 1	0.01	8	1320	12	2	< 1	14	< 0.01	< 10	< 10	22	< 10	20
22200E 17400N	201	202	120	< 1	0.01	20	1130	18	< 2	1	49	0.02	< 10	< 10	36	< 10	68
22200E 17425N	201	202	330	< 1	< 0.01	26	680	20	< 2	5	42	0.10	< 10	< 10	65	< 10	92
22200E 17450N	201	202	115	< 1	< 0.01	11	400	10	< 2	1	30	0.07	< 10	< 10	54	< 10	36
22200E 17475N	201	202	1015	< 1	0.01	21	550	26	2	3	49	0.14	< 10	< 10	60	< 10	90
22200E 17500N	201	202	190	< 1	< 0.01	26	380	10	< 2	3	53	0.12	< 10	< 10	52	< 10	66
22200E 17525N	201	202	535	< 1	< 0.01	14	1080	8	< 2	1	86	0.03	< 10	< 10	21	< 10	78
22200E 17550N	201	202	345	< 1	0.01	12	1120	6	2	1	68	0.02	< 10	< 10	13	< 10	40
22200E 17575N	201	202	615	< 1	0.01	13	1330	20	2	1	66	0.03	< 10	< 10	27	< 10	78
22200E 17600N	201	202	225	< 1	0.01	27	1670	20	< 2	3	63	0.04	< 10	< 10	40	< 10	142
22200E 17625N	201	202	410	< 1	0.01	16	1120	8	< 2	1	72	0.03	< 10	< 10	20	< 10	72
22200E 17650N	201	202	380	< 1	0.02	22	1140	12	< 2	2	74	0.06	< 10	< 10	33	< 10	66
22200E 17675N	201	202	500	< 1	0.01	24	1320	12	< 2	4	85	0.08	< 10	< 10	65	< 10	134
22200E 17700N	201	202	160	< 1	0.01	38	1110	10	< 2	1	72	0.03	< 10	30	133	< 10	104
22200E 17725N	201	202	285	< 1	< 0.01	43	960	16	< 2	4	50	0.08	< 10	< 10	248	< 10	400
22200E 17750N	201	202	240	< 1	< 0.01	62	810	12	< 2	4	46	0.08	< 10	< 10	213	< 10	398
22200E 17775N	201	202	125	< 1	< 0.01	58	630	14	< 2	3	35	0.07	< 10	< 10	169	< 10	278
22200E 17800N	201	202	170	< 1	< 0.01	35	880	14	< 2	3	40	0.05	< 10	< 10	247	< 10	308
22200E 17825N	201	202	295	< 1	< 0.01	45	1450	10	< 2	3	58	0.08	< 10	< 10	108	< 10	236
22200E 17850N	201	202	205	< 1	< 0.01	30	770	12	< 2	3	40	0.10	< 10	< 10	121	< 10	200
22200E 17875N	201	202	170	< 1	< 0.01	22	680	8	< 2	3	24	0.05	< 10	< 10	91	< 10	172
22200E 17900N	201	202	175	< 1	< 0.01	41	3580	8	< 2	3	57	0.04	< 10	< 10	120	< 10	424
22200E 17925N	201	202	270	< 1	< 0.01	30	2320	10	< 2	3	30	0.04	< 10	< 10	102	< 10	232
22200E 17950N	201	202	260	< 1	< 0.01	45	1840	14	< 2	4	41	0.09	< 10	< 10	170	< 10	570
22200E 17975N	201	202	365	< 1	< 0.01	89	1540	14	< 2	1	81	0.02	< 10	< 10	595	< 10	980
22200E 18000N	201	202	330	< 1	< 0.01	49	1190	16	< 2	1	40	0.03	< 10	< 10	312	< 10	570
22400E 17150N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22400E 17175N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22400E 17200N	201	202	95	< 1	< 0.01	40	1210	8	< 2	4	47	0.13	< 10	< 10	43	< 10	82
22400E 17225N	201	202	670	< 1	< 0.01	40	1110	10	< 2	5	78	0.11	< 10	< 10	65	< 10	80

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: BREWERY CREEK
Comments: ATTN: RICK DIMENT

Page: 12-A
Total F: 4
Certificate Date: 26-SEP-97
Invoice No.: 19742959
P.O. Number:
Account: LDS

CERTIFICATE OF ANALYSIS A9742959

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	
			FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	
22400E 17250N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22400E 17275N	201	202	< 5	10.00	0.2	1.72	10	450	< 0.5	< 2	0.87	0.5	7	40	28	2.50	< 10	60	0.07	10	0.33	
22400E 17300N	201	202	< 5	15.00	0.2	2.02	12	460	0.5	< 2	2.43	1.5	13	33	38	2.50	< 10	60	0.07	10	0.45	
22400E 17325N	201	202	< 5	15.00	0.2	2.08	10	400	0.5	< 2	2.23	1.0	10	34	32	2.22	< 10	60	0.06	20	0.52	
22400E 17350N	201	202	not/	not/	0.2	1.36	< 2	320	0.5	< 2	1.17	0.5	4	24	22	1.50	< 10	60	0.05	10	0.29	
22400E 17375N	201	202	not/	not/	< 0.2	1.41	< 2	190	0.5	< 2	3.40	2.5	5	18	32	1.35	< 10	60	0.04	10	0.37	
22400E 17400N	201	202	< 5	10.00	0.4	1.88	8	260	0.5	< 2	3.21	2.0	9	24	27	1.69	< 10	80	0.05	10	0.68	
22400E 17425N	201	202	< 5	15.00	0.6	2.21	8	240	0.5	< 2	1.11	1.5	13	28	24	2.42	< 10	50	0.05	10	0.51	
22400E 17450N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22400E 17475N	201	202	< 5	10.00	0.6	1.55	10	200	0.5	< 2	3.28	3.0	10	19	32	1.66	< 10	90	0.04	10	0.34	
22400E 17500N	201	202	< 5	10.00	0.6	1.41	6	170	0.5	< 2	3.03	2.5	7	15	22	1.42	< 10	90	0.03	10	0.27	
22400E 17525N	201	202	not/	not/	0.2	0.59	< 2	140	< 0.5	< 2	3.59	2.0	3	7	18	0.52	< 10	80	0.02	< 10	0.13	
22400E 17550N	201	202	< 5	15.00	0.8	1.44	6	270	0.5	< 2	2.66	3.5	8	19	27	1.31	< 10	110	0.05	10	0.38	
22400E 17575N	201	202	< 5	10.00	0.8	1.41	8	250	0.5	< 2	2.27	3.0	8	20	30	1.33	< 10	110	0.05	10	0.36	
22400E 17600N	201	202	< 5	15.00	0.8	1.42	8	240	0.5	< 2	2.35	2.5	8	20	30	1.31	< 10	90	0.05	10	0.39	
22400E 17625N	201	202	< 5	30.00	0.8	1.83	6	370	0.5	< 2	2.07	1.5	8	26	25	1.89	< 10	90	0.06	10	0.77	
22400E 17650N	201	202	not/	not/	0.2	0.72	2	170	< 0.5	< 2	3.26	3.0	4	9	27	0.72	< 10	80	0.03	< 10	0.16	
22400E 17675N	201	202	< 5	10.00	0.4	0.93	2	230	< 0.5	< 2	3.20	3.5	5	13	31	0.96	< 10	120	0.03	< 10	0.22	
22400E 17700N	201	202	< 5	15.00	0.2	1.61	84	490	0.5	< 2	3.89	1.5	9	42	37	1.71	< 10	80	0.07	< 10	0.88	
22400E 17725N	201	202	< 5	10.00	0.2	2.13	116	690	0.5	< 2	2.54	1.0	12	63	33	2.81	< 10	70	0.09	10	1.24	
22400E 17750N	201	202	< 5	30.00	0.4	2.55	116	410	0.5	< 2	0.98	1.0	16	91	31	3.19	< 10	40	0.13	10	0.83	
22400E 17775N	201	202	< 5	30.00	0.2	2.26	76	420	0.5	< 2	1.07	0.5	12	61	35	3.22	< 10	40	0.07	10	1.06	
22400E 17800N	201	202	< 5	30.00	< 0.2	2.29	28	350	0.5	< 2	0.39	0.5	9	65	26	3.24	< 10	20	0.06	10	0.75	
22400E 17825N	201	202	< 5	30.00	< 0.2	2.34	16	280	< 0.5	< 2	0.17	0.5	9	100	18	3.78	< 10	10	0.06	10	0.67	
22400E 17850N	201	202	< 5	30.00	0.2	2.70	44	370	0.5	< 2	0.25	0.5	15	78	37	6.42	< 10	20	0.07	10	0.57	
22400E 17875N	201	202	< 5	30.00	< 0.2	2.26	14	220	< 0.5	< 2	0.16	0.5	23	42	17	2.91	< 10	30	0.04	10	0.49	
22400E 17900N	201	202	< 5	15.00	< 0.2	1.69	16	160	< 0.5	< 2	0.11	< 0.5	4	41	13	3.71	< 10	30	0.05	10	0.37	
22400E 17925N	201	202	< 5	30.00	0.2	1.64	26	190	< 0.5	< 2	1.07	0.5	5	23	22	1.93	< 10	30	0.05	10	0.37	
22400E 17950N	201	202	< 5	15.00	0.6	1.60	6	200	0.5	< 2	2.66	2.5	7	34	52	1.63	< 10	90	0.04	10	0.75	
22400E 17975N	201	202	< 5	15.00	1.6	1.70	10	250	1.0	< 2	2.67	9.0	5	62	127	1.63	< 10	140	0.05	30	0.62	
22400E 18000N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22600E 17125N	201	202	< 5	15.00	< 0.2	2.62	18	450	3.0	< 2	0.37	0.5	10	47	65	3.71	< 10	70	0.11	110	0.43	
22600E 17150N	201	202	< 5	30.00	< 0.2	2.45	12	290	0.5	< 2	0.15	0.5	12	97	20	4.18	10	20	0.13	10	0.85	
22600E 17175N	201	202	not/	not/	< 0.2	2.19	26	580	< 0.5	< 2	0.33	0.5	13	80	37	4.84	< 10	50	0.04	< 10	0.61	
22600E 17200N	201	202	< 5	10.00	0.2	0.72	< 2	850	< 0.5	< 2	4.60	0.5	5	23	29	0.78	< 10	60	0.03	< 10	0.30	
22600E 17225N	201	202	< 5	10.00	0.2	2.15	< 2	950	< 0.5	< 2	1.77	1.5	13	81	27	3.07	< 10	50	0.13	< 10	1.38	
22600E 17250N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22600E 17275N	201	202	not/	not/	< 0.2	0.85	< 2	350	< 0.5	< 2	1.09	0.5	2	52	21	1.08	< 10	70	0.04	< 10	0.28	
22600E 17300N	201	202	not/	not/	< 0.2	0.58	< 2	590	0.5	< 2	1.04	0.5	4	8	28	0.89	< 10	120	0.01	10	0.06	
22600E 17325N	201	202	not/	not/	< 0.2	1.29	< 2	500	< 0.5	< 2	0.58	0.5	5	59	20	1.64	< 10	60	0.06	< 10	0.58	

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Page No: 2-B
Total P: 4
Certificate No: 26-SEP-97
Invoice No: 19742959
P.O. Number:
Account: LDS

Project: BREWERY CREEK
Comments: ATTN:RICK DIMENT

CERTIFICATE OF ANALYSIS

A9742959

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
22400E 17250N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22400E 17275N	201	202	125	< 1	0.01	29	1100	12	< 2	4	73	0.08	< 10	< 10	42	< 10	64
22400E 17300N	201	202	420	< 1	0.03	49	1420	8	< 2	4	104	0.07	< 10	< 10	43	< 10	102
22400E 17325N	201	202	340	1	0.02	30	1100	12	< 2	4	99	0.08	< 10	< 10	47	< 10	88
22400E 17350N	201	202	100	< 1	0.01	15	910	6	< 2	3	63	0.07	< 10	< 10	33	< 10	48
22400E 17375N	201	202	80	< 1	0.01	19	780	14	< 2	2	76	0.05	< 10	< 10	25	< 10	60
22400E 17400N	201	202	390	< 1	0.01	21	1010	20	2	3	86	0.05	< 10	< 10	38	< 10	150
22400E 17425N	201	202	390	< 1	< 0.01	22	800	34	2	3	42	0.06	< 10	< 10	58	< 10	154
22400E 17450N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22400E 17475N	201	202	540	< 1	0.01	18	1170	34	2	2	74	0.04	< 10	< 10	36	< 10	142
22400E 17500N	201	202	415	1	< 0.01	15	930	26	< 2	1	63	0.03	< 10	< 10	29	< 10	106
22400E 17525N	201	202	155	< 1	0.01	8	920	2	4	1	69	0.01	< 10	< 10	11	< 10	36
22400E 17550N	201	202	445	< 1	< 0.01	18	1130	24	< 2	3	69	0.04	< 10	< 10	31	< 10	144
22400E 17575N	201	202	490	1	0.01	18	1350	26	4	3	64	0.04	< 10	< 10	35	< 10	134
22400E 17600N	201	202	460	< 1	0.01	19	1250	30	2	2	66	0.04	< 10	< 10	35	< 10	142
22400E 17625N	201	202	390	< 1	0.01	20	970	22	2	4	88	0.06	< 10	< 10	45	< 10	132
22400E 17650N	201	202	510	< 1	0.01	11	1100	10	2	< 1	68	0.02	< 10	< 10	16	< 10	74
22400E 17675N	201	202	465	< 1	0.01	16	1050	16	2	1	63	0.02	< 10	< 10	20	< 10	112
22400E 17700N	201	202	465	< 1	0.01	28	1020	6	4	3	91	0.08	< 10	< 10	55	< 10	40
22400E 17725N	201	202	305	< 1	0.01	42	1180	2	< 2	4	89	0.16	< 10	< 10	80	< 10	44
22400E 17750N	201	202	245	1	0.01	53	1150	12	8	5	95	0.07	< 10	< 10	112	< 10	60
22400E 17775N	201	202	260	< 1	0.01	43	1100	8	< 2	5	66	0.09	< 10	< 10	82	< 10	70
22400E 17800N	201	202	140	< 1	< 0.01	32	880	8	4	4	47	0.06	< 10	< 10	93	< 10	54
22400E 17825N	201	202	165	< 1	< 0.01	31	670	8	< 2	4	26	0.05	< 10	< 10	93	< 10	50
22400E 17850N	201	202	245	4	0.01	57	1450	8	6	4	105	0.04	< 10	< 10	140	< 10	104
22400E 17875N	201	202	325	1	< 0.01	50	560	6	< 2	3	25	0.06	< 10	< 10	56	< 10	86
22400E 17900N	201	202	160	< 1	0.01	12	660	4	2	3	35	0.08	< 10	< 10	84	< 10	50
22400E 17925N	201	202	180	< 1	< 0.01	19	580	6	< 2	2	41	0.05	< 10	< 10	81	< 10	90
22400E 17950N	201	202	235	< 1	< 0.01	46	1430	10	< 2	3	46	0.04	< 10	< 10	84	< 10	128
22400E 17975N	201	202	260	< 1	0.01	76	1630	8	< 2	2	65	0.04	< 10	< 10	121	< 10	234
22400E 18000N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22600E 17125N	201	202	115	2	0.01	65	1130	28	2	4	83	0.06	< 10	< 10	51	< 10	90
22600E 17150N	201	202	240	< 1	< 0.01	30	530	12	< 2	4	34	0.13	< 10	< 10	101	< 10	58
22600E 17175N	201	202	345	< 1	< 0.01	58	840	12	4	3	55	0.22	< 10	< 10	95	< 10	54
22600E 17200N	201	202	320	< 1	0.01	23	750	2	< 2	1	86	0.05	< 10	< 10	20	< 10	16
22600E 17225N	201	202	355	< 1	< 0.01	40	850	8	< 2	5	93	0.23	< 10	< 10	91	< 10	68
22600E 17250N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22600E 17275N	201	202	55	< 1	0.01	20	1000	6	< 2	3	56	0.10	< 10	< 10	18	< 10	16
22600E 17300N	201	202	50	< 1	< 0.01	23	1090	2	2	1	48	0.01	< 10	< 10	5	< 10	12
22600E 17325N	201	202	95	< 1	< 0.01	30	640	6	< 2	3	37	0.16	< 10	< 10	27	< 10	30

CERTIFICATION: Handwritten Signature



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
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Page No: 13-A
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 Invoice No.: 19742959
 P.O. Number:
 Account: LDS

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9742959

SAMPLE	PREP CODE		Au ppb fusion FA+AA wt. gm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
22600E 17350N	201	202	15 15.00	0.2	3.91	20	960	0.5	< 2	0.87	< 0.5	44	294	53	5.23	10	30	0.33	10	3.62
22600E 17375N	201	202	< 5 30.00	< 0.2	2.20	6	710	< 0.5	< 2	1.68	< 0.5	15	89	25	3.03	< 10	30	0.12	10	1.05
22600E 17400N	201	202	< 5 15.00	< 0.2	1.44	6	280	< 0.5	< 2	2.50	< 0.5	9	47	26	1.85	< 10	50	0.07	10	0.46
22600E 17425N	201	202	< 5 15.00	0.2	2.16	14	420	0.5	< 2	2.23	0.5	9	42	31	2.31	< 10	100	0.09	10	0.53
22600E 17450N	201	202	not/ss not/ss	0.2	0.87	< 2	220	< 0.5	< 2	1.47	0.5	1	14	18	0.68	< 10	120	0.04	< 10	0.14
22600E 17475N	201	202	5 30.00	< 0.2	2.53	14	280	0.5	< 2	0.35	< 0.5	8	31	21	2.75	< 10	20	0.08	10	0.65
22600E 17500N	201	202	< 5 30.00	< 0.2	4.85	< 2	1790	0.5	< 2	0.79	< 0.5	22	119	40	7.64	10	40	0.21	10	2.31
22600E 17525N	201	202	< 5 30.00	< 0.2	1.37	< 2	270	< 0.5	< 2	0.18	< 0.5	3	21	7	1.31	< 10	20	0.06	10	0.25
22600E 17550N	201	202	not/ss not/ss	< 0.2	1.00	2	630	< 0.5	< 2	2.73	< 0.5	13	22	16	1.32	< 10	80	0.05	< 10	0.38
22600E 17575N	201	202	< 5 15.00	< 0.2	2.09	16	1390	< 0.5	< 2	2.20	< 0.5	13	48	23	2.42	< 10	50	0.09	10	1.10
22600E 17600N	201	202	< 5 15.00	0.2	2.17	6	1430	< 0.5	< 2	1.16	0.5	14	51	30	2.40	< 10	90	0.07	10	1.10
22600E 17625N	201	202	< 5 15.00	< 0.2	1.60	< 2	630	< 0.5	< 2	0.53	< 0.5	4	43	16	1.55	< 10	70	0.05	< 10	0.58
22600E 17650N	201	202	< 5 15.00	< 0.2	1.58	8	960	< 0.5	< 2	1.23	0.5	9	38	25	2.13	< 10	80	0.04	10	0.62
22600E 17675N	201	202	< 5 30.00	0.2	1.96	2	730	0.5	< 2	1.49	0.5	13	42	24	2.13	< 10	70	0.05	10	0.97
22600E 17725N	201	202	< 5 15.00	0.6	1.76	38	320	1.0	< 2	2.11	6.5	8	17	43	2.16	< 10	80	0.07	30	0.83
22600E 17750N	201	202	< 5 15.00	< 0.2	1.72	< 2	460	< 0.5	< 2	3.47	0.5	10	54	25	2.04	< 10	60	0.06	10	0.99
22600E 17775N	201	202	< 5 30.00	< 0.2	3.13	6	930	0.5	< 2	1.45	0.5	22	98	45	4.82	10	50	0.07	10	1.50
22600E 17800N	201	202	< 5 30.00	0.6	5.14	50	2900	1.0	< 2	0.45	1.5	30	93	63	7.69	10	30	0.23	10	1.28
22600E 17825N	201	202	< 5 30.00	< 0.2	3.41	8	540	0.5	< 2	0.20	0.5	19	103	29	5.39	10	20	0.09	10	1.48
22600E 17850N	201	202	< 5 30.00	< 0.2	2.73	8	390	0.5	< 2	0.28	< 0.5	13	50	32	3.43	< 10	30	0.10	10	0.80
22600E 17875N	201	202	< 5 30.00	< 0.2	2.99	10	550	0.5	< 2	0.36	0.5	20	84	35	4.67	10	20	0.12	20	1.20
22600E 17900N	201	202	< 5 30.00	< 0.2	3.36	10	510	0.5	< 2	0.60	< 0.5	41	94	35	5.82	10	20	0.11	20	1.35
22600E 17925N	201	202	< 5 15.00	1.2	2.27	8	520	0.5	< 2	1.38	1.0	20	70	40	3.64	< 10	100	0.13	20	1.26
22600E 17950N	201	202	< 5 15.00	0.4	2.37	< 2	440	0.5	< 2	1.67	< 0.5	24	57	34	3.18	< 10	90	0.08	10	0.95
22600E 17975N	201	202	< 5 15.00	0.6	2.29	< 2	550	0.5	< 2	2.49	0.5	19	68	46	2.97	< 10	110	0.06	10	1.19
22600E 18000N	201	202	< 5 15.00	0.4	1.29	6	170	< 0.5	< 2	2.10	0.5	7	46	36	1.47	< 10	80	0.05	10	0.95
22800E 17125N	--	--	NotRed NotRed NotRed NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17150N	201	202	< 5 30.00	0.2	3.35	6	2360	1.5	< 2	2.13	< 0.5	22	157	49	4.48	10	60	0.32	30	2.22
22800E 17175N	201	202	< 5 15.00	0.2	3.82	24	2400	0.5	< 2	1.64	0.5	26	217	53	4.99	10	50	0.32	10	2.87
22800E 17200N	201	202	< 5 15.00	0.2	2.41	2	1760	0.5	< 2	3.30	< 0.5	15	85	32	3.30	< 10	70	0.21	10	1.55
22800E 17225N	201	202	< 5 30.00	< 0.2	2.78	< 2	1530	< 0.5	< 2	1.35	1.0	20	143	24	4.48	10	40	0.12	10	2.02
22800E 17250N	201	202	< 5 30.00	< 0.2	2.82	16	230	0.5	< 2	0.27	0.5	8	39	18	3.89	< 10	30	0.09	10	0.60
22800E 17275N	201	202	< 5 30.00	< 0.2	1.20	4	120	< 0.5	< 2	0.19	< 0.5	3	18	13	1.88	< 10	30	0.04	10	0.33
22800E 17300N	--	--	NotRed NotRed NotRed NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17325N	201	202	< 5 30.00	< 0.2	3.01	< 2	300	0.5	< 2	0.65	< 0.5	7	36	26	2.99	10	40	0.11	10	2.28
22800E 17350N	--	--	NotRed NotRed NotRed NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17375N	201	202	< 5 15.00	0.2	2.73	< 2	1980	0.5	< 2	1.68	2.5	23	135	45	3.75	10	60	0.11	10	2.26
22800E 17400N	201	202	< 5 15.00	< 0.2	3.29	< 2	1980	0.5	< 2	2.73	0.5	25	164	42	4.15	10	50	0.22	10	2.68
22800E 17425N	201	202	< 5 10.00	< 0.2	3.37	36	1220	0.5	< 2	1.45	0.5	33	154	34	6.19	10	30	0.26	10	2.45
22800E 17450N	201	202	< 5 15.00	0.2	1.90	14	770	0.5	< 2	2.25	2.0	14	33	48	2.37	< 10	130	0.06	10	0.68

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project : BREWERY CREEK
 Comments: ATTN:RICK DIMENT

Page N : 3-B
 Total F : 4
 Certificate Date: 26-SEP-97
 Invoice No. : 19742959
 P.O. Number :
 Account : LDS

CERTIFICATE OF ANALYSIS

A9742959

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
22600E 17350N	201	202	805	< 1	< 0.01	173	1120	16	< 2	6	99	0.30	< 10	< 10	112	< 10	114
22600E 17375N	201	202	385	< 1	0.02	52	1050	6	< 2	5	78	0.16	< 10	< 10	75	< 10	66
22600E 17400N	201	202	310	< 1	0.01	43	970	6	< 2	4	66	0.07	< 10	< 10	41	< 10	52
22600E 17425N	201	202	350	1	0.01	43	1490	14	2	4	74	0.07	< 10	< 10	59	< 10	96
22600E 17450N	201	202	35	< 1	< 0.01	15	780	< 2	< 2	2	65	0.03	< 10	< 10	15	< 10	30
22600E 17475N	201	202	185	1	< 0.01	28	280	10	< 2	3	29	0.10	< 10	< 10	75	< 10	82
22600E 17500N	201	202	530	< 1	< 0.01	43	720	6	< 2	7	75	0.59	< 10	< 10	178	< 10	58
22600E 17525N	201	202	90	< 1	< 0.01	7	330	10	< 2	1	27	0.12	< 10	< 10	50	< 10	24
22600E 17550N	201	202	340	< 1	0.01	23	1160	2	2	2	72	0.10	< 10	< 10	26	< 10	38
22600E 17575N	201	202	555	< 1	< 0.01	29	980	6	< 2	5	71	0.28	< 10	< 10	75	< 10	54
22600E 17600N	201	202	295	1	< 0.01	39	1110	6	< 2	6	66	0.22	< 10	< 10	67	< 10	78
22600E 17625N	201	202	80	1	< 0.01	19	900	6	< 2	3	62	0.13	< 10	< 10	48	< 10	30
22600E 17650N	201	202	205	< 1	< 0.01	33	1100	6	< 2	4	53	0.12	< 10	< 10	46	< 10	62
22600E 17675N	201	202	560	< 1	< 0.01	30	900	14	< 2	4	63	0.09	< 10	< 10	67	< 10	106
22600E 17725N	201	202	280	1	0.01	63	1710	14	< 2	4	100	0.08	< 10	10	172	< 10	332
22600E 17750N	201	202	330	1	0.01	46	950	< 2	< 2	5	100	0.07	< 10	< 10	76	< 10	64
22600E 17775N	201	202	610	3	0.01	61	800	6	< 2	10	78	0.10	< 10	< 10	139	< 10	76
22600E 17800N	201	202	480	7	0.04	103	930	12	8	10	320	0.07	< 10	< 10	210	< 10	240
22600E 17825N	201	202	375	3	< 0.01	54	650	6	< 2	7	52	0.09	< 10	< 10	159	< 10	74
22600E 17850N	201	202	245	1	< 0.01	39	380	8	< 2	5	68	0.08	< 10	< 10	86	< 10	70
22600E 17875N	201	202	500	2	0.01	60	840	10	< 2	8	87	0.07	< 10	< 10	122	< 10	102
22600E 17900N	201	202	1175	4	0.01	68	950	12	2	9	96	0.11	< 10	< 10	157	< 10	132
22600E 17925N	201	202	955	7	0.01	69	2020	8	2	9	115	0.06	< 10	< 10	147	< 10	204
22600E 17950N	201	202	1240	3	0.01	51	1380	14	2	9	129	0.07	< 10	< 10	92	< 10	98
22600E 17975N	201	202	980	2	0.01	69	1250	8	< 2	9	133	0.08	< 10	< 10	95	< 10	100
22600E 18000N	201	202	230	1	< 0.01	53	1450	6	< 2	3	78	0.04	< 10	< 10	132	< 10	162
22800E 17125N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17150N	201	202	610	< 1	< 0.01	80	1110	14	2	6	179	0.33	< 10	< 10	108	< 10	100
22800E 17175N	201	202	620	< 1	0.01	111	1100	8	2	8	120	0.36	< 10	< 10	128	< 10	116
22800E 17200N	201	202	1035	< 1	< 0.01	45	880	2	< 2	5	178	0.27	< 10	< 10	83	< 10	68
22800E 17225N	201	202	500	< 1	< 0.01	62	520	4	< 2	7	95	0.50	< 10	< 10	130	< 10	78
22800E 17250N	201	202	220	7	< 0.01	32	340	36	< 2	4	57	0.11	< 10	< 10	106	< 10	188
22800E 17275N	201	202	210	3	< 0.01	12	320	8	< 2	1	29	0.09	< 10	< 10	62	< 10	54
22800E 17300N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17325N	201	202	155	5	0.01	33	370	12	2	4	261	0.14	< 10	< 10	72	< 10	232
22800E 17350N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17375N	201	202	810	3	< 0.01	79	1190	6	< 2	6	129	0.33	< 10	< 10	190	< 10	188
22800E 17400N	201	202	885	< 1	< 0.01	92	1290	10	< 2	7	198	0.31	< 10	< 10	116	< 10	104
22800E 17425N	201	202	805	< 1	0.03	85	1590	18	2	6	162	0.26	< 10	< 10	115	< 10	144
22800E 17450N	201	202	2330	13	0.01	39	1010	8	2	5	88	0.11	< 10	< 10	88	< 10	140

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

Page #: 4-A
 Total P: 4
 Certificate Date: 26-SEP-97
 Invoice No.: 19742959
 P.O. Number:
 Account: LDS

CERTIFICATE OF ANALYSIS A9742959

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	
	PA	AA	wt.	gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	
22800E 17475N	201	202	< 5	30.00	< 0.2	1.33	2	270	< 0.5	< 2	0.41	0.5	3	27	14	1.39	< 10	150	0.04	10	0.73	
22800E 17500N	201	202	20	15.00	0.8	2.01	38	310	0.5	< 2	0.38	0.5	7	33	33	2.55	< 10	100	0.06	10	0.86	
22800E 17525N	201	202	< 5	30.00	< 0.2	1.89	184	200	< 0.5	< 2	0.08	< 0.5	6	25	20	3.36	< 10	10	0.10	10	0.46	
22800E 17550N	201	202	< 5	30.00	< 0.2	1.90	44	190	< 0.5	< 2	0.07	< 0.5	5	21	20	3.03	< 10	10	0.12	30	0.32	
22800E 17575N	201	202	< 5	15.00	< 0.2	1.41	6	150	< 0.5	< 2	0.10	< 0.5	3	20	9	2.50	< 10	30	0.07	10	0.19	
22800E 17600N	201	202	< 5	30.00	< 0.2	1.53	2	110	< 0.5	< 2	0.10	< 0.5	3	20	11	2.04	< 10	30	0.07	10	0.21	
22800E 17625N	201	202	< 5	15.00	< 0.2	2.11	12	130	< 0.5	< 2	0.09	< 0.5	5	30	13	4.49	< 10	30	0.11	10	0.32	
22800E 17650N	201	202	< 5	30.00	0.4	2.02	14	250	0.5	< 2	0.13	< 0.5	8	25	23	2.13	< 10	50	0.17	20	0.40	
22800E 17675N	201	202	< 5	15.00	0.4	2.30	12	330	0.5	< 2	0.17	< 0.5	9	25	37	2.08	< 10	70	0.12	20	0.38	
22800E 17700N	201	202	< 5	10.00	< 0.2	1.84	40	230	0.5	< 2	0.08	< 0.5	7	23	33	3.36	< 10	40	0.18	30	0.31	
22800E 17725N	201	202	< 5	10.00	0.4	0.78	4	260	< 0.5	< 2	3.29	3.5	6	17	20	0.80	< 10	70	0.03	< 10	0.24	
22800E 17750N	201	202	< 5	15.00	0.4	1.52	28	400	0.5	< 2	2.59	6.5	7	36	57	1.74	< 10	90	0.05	10	0.66	
22800E 17775N	201	202	< 5	10.00	0.4	1.52	32	340	0.5	< 2	2.91	4.0	8	38	31	1.77	< 10	70	0.06	10	0.76	
22800E 17800N	201	202	< 5	15.00	0.4	1.83	38	390	0.5	< 2	1.39	4.0	9	54	40	2.33	< 10	90	0.08	30	0.92	
22800E 17825N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17850N	201	202	10	15.00	< 0.2	1.70	62	390	0.5	< 2	0.58	0.5	10	27	26	2.62	< 10	60	0.19	30	0.61	
22800E 17875N	201	202	10	30.00	0.2	1.23	38	360	< 0.5	< 2	1.22	2.0	11	18	18	1.76	< 10	70	0.08	10	0.43	
22800E 17900N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17925N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17950N	201	202	< 5	30.00	1.4	1.38	96	450	0.5	< 2	0.63	0.5	11	34	27	3.40	< 10	90	0.15	10	0.46	
22800E 17975N	201	202	< 5	15.00	0.4	1.19	230	310	< 0.5	< 2	0.09	< 0.5	5	15	34	3.48	< 10	20	0.12	10	0.19	
22800E 18000N	201	202	< 5	30.00	0.4	2.48	84	300	0.5	< 2	0.12	< 0.5	16	30	33	4.69	< 10	20	0.16	10	0.52	

CERTIFICATION: _____



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Analytical Chemists * Geochemists * Registered Assayers

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VICEROY RESOURCE CORPORATION
 BREWERY CREEK OPERATIONS
 BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page No: 4-B
 Total P: 4
 Certificate Date: 26-SEP-97
 Invoice No.: 19742959
 P.O. Number:
 Account: LDS

Project: BREWERY CREEK
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS A9742959

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
22800E 17475N	201 202	100	1 < 0.01		20	510	10	< 2	3	46	0.09	< 10	< 10	79	< 10	132
22800E 17500N	201 202	180	5 < 0.01		37	390	30	2	3	56	0.06	< 10	< 10	121	< 10	204
22800E 17525N	201 202	165	2 < 0.01		16	340	14	< 2	3	31	0.04	< 10	< 10	68	< 10	80
22800E 17550N	201 202	135	2 < 0.01		13	310	14	2	3	43	0.02	< 10	< 10	51	< 10	66
22800E 17575N	201 202	145	1 < 0.01		7	400	10	< 2	2	16	0.06	< 10	< 10	63	< 10	40
22800E 17600N	201 202	105	< 1 < 0.01		6	500	10	< 2	2	14	0.06	< 10	< 10	49	< 10	38
22800E 17625N	201 202	220	1 < 0.01		10	480	8	< 2	3	17	0.06	< 10	< 10	66	< 10	48
22800E 17650N	201 202	300	1 < 0.01		12	520	16	< 2	3	27	0.04	< 10	< 10	46	< 10	68
22800E 17675N	201 202	260	1 0.01		17	840	10	< 2	3	56	0.04	< 10	< 10	38	< 10	60
22800E 17700N	201 202	205	3 0.01		18	800	20	2	3	45	0.02	< 10	< 10	60	< 10	76
22800E 17725N	201 202	210	1 0.01		26	1180	6	2	1	133	0.03	< 10	30	85	< 10	84
22800E 17750N	201 202	345	4 0.01		70	1170	12	< 2	4	109	0.07	< 10	40	167	< 10	226
22800E 17775N	201 202	365	3 0.01		47	1640	10	< 2	3	120	0.08	< 10	20	216	< 10	246
22800E 17800N	201 202	330	2 0.01		59	2130	14	2	4	106	0.09	< 10	10	214	< 10	410
22800E 17825N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17850N	201 202	440	2 < 0.01		37	800	14	74	4	54	0.02	< 10	< 10	61	< 10	140
22800E 17875N	201 202	1760	7 < 0.01		29	800	6	24	3	84	0.02	< 10	< 10	49	< 10	132
22800E 17900N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17925N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
22800E 17950N	201 202	585	3 < 0.01		21	780	36	8	4	69	0.06	< 10	< 10	62	< 10	98
22800E 17975N	201 202	105	1 < 0.01		15	740	24	8	1	44	0.04	< 10	< 10	56	< 10	66
22800E 18000N	201 202	200	1 < 0.01		32	470	22	6	3	39	0.08	< 10	< 10	76	< 10	134

CERTIFICATION: _____



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT

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Total Pg 6
Certificate No. 25-AUG-97
Invoice No. 19737990
P.O. Number
Account OQN

CERTIFICATE OF ANALYSIS

A9737980

SAMPLE	PREP		Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	CODE		FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm
L21700E 18000W	201	202	10	0.2	1.46	8	190	< 0.5	< 2	0.37	2.5	5	30	25	2.08	< 10	50	0.06	10	0.52	190
L21700E 18025W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21700E 18050W	201	202	5	< 0.2	1.34	8	150	< 0.5	< 2	0.22	1.0	5	27	20	2.09	< 10	40	0.05	10	0.39	160
L21700E 18075W	201	202	< 5	0.2	2.12	8	210	0.5	2	0.09	1.0	7	29	17	3.75	< 10	50	0.06	10	0.25	295
L21700E 18100W	201	202	10	0.4	1.02	8	260	< 0.5	< 2	0.07	0.5	3	18	25	2.87	< 10	60	0.09	20	0.12	80
L21700E 18125W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21700E 18150W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21700E 18175W	201	202	< 5	< 0.2	1.58	8	200	0.5	< 2	0.16	0.5	24	34	27	3.81	< 10	40	0.08	10	0.39	780
L21700E 18200W	201	202	< 5	0.2	1.56	6	220	< 0.5	< 2	0.23	0.5	5	28	15	2.10	< 10	70	0.07	10	0.40	155
L21700E 18225W	201	202	< 5	< 0.2	1.62	2	130	< 0.5	< 2	0.12	< 0.5	4	26	11	2.41	< 10	20	0.06	10	0.33	140
L21700E 18250W	201	202	< 5	< 0.2	1.58	8	160	< 0.5	< 2	0.19	< 0.5	6	27	14	2.35	< 10	60	0.07	10	0.36	180
L21700E 18275W	201	202	< 5	< 0.2	1.49	8	160	< 0.5	< 2	0.12	< 0.5	3	25	9	1.98	< 10	20	0.05	10	0.19	120
L21700E 18300W	201	202	< 5	< 0.2	1.37	10	140	< 0.5	< 2	0.12	< 0.5	5	29	15	2.35	< 10	20	0.05	10	0.31	190
L21700E 18325W	201	202	< 5	< 0.2	1.27	10	130	< 0.5	< 2	0.10	< 0.5	3	30	13	2.05	< 10	30	0.04	10	0.25	135
L21700E 18350W	201	202	< 5	< 0.2	1.56	8	140	< 0.5	< 2	0.10	< 0.5	4	27	7	2.79	< 10	10	0.04	10	0.31	130
L21700E 18375W	201	202	< 5	< 0.2	1.44	6	130	< 0.5	< 2	0.12	< 0.5	4	24	10	2.22	< 10	20	0.05	10	0.31	110
L21700E 18400W	201	202	< 5	< 0.2	1.40	6	140	< 0.5	< 2	0.10	< 0.5	2	24	9	1.98	< 10	20	0.05	10	0.20	60
L21700E 18425W	201	202	5	< 0.2	1.50	8	140	< 0.5	< 2	0.15	< 0.5	4	25	11	2.25	< 10	30	0.06	10	0.32	145
L21700E 18450W	201	202	< 5	< 0.2	1.53	12	130	< 0.5	< 2	0.14	< 0.5	3	28	10	2.25	< 10	30	0.06	10	0.28	110
L21700E 18475W	201	202	5	< 0.2	1.52	10	130	< 0.5	< 2	0.15	< 0.5	5	26	10	2.34	< 10	30	0.05	10	0.33	130
L21700E 18500W	201	202	< 5	< 0.2	1.46	6	130	< 0.5	< 2	0.13	< 0.5	3	27	13	2.20	< 10	50	0.05	10	0.27	90
L21700E 18525W	201	202	< 5	< 0.2	1.78	8	130	< 0.5	< 2	0.15	< 0.5	5	30	10	2.38	< 10	50	0.05	10	0.32	155
L21700E 18550W	201	202	< 5	< 0.2	1.74	8	130	< 0.5	< 2	0.15	< 0.5	4	30	9	2.44	< 10	30	0.06	10	0.33	100
L21700E 18575W	201	202	< 5	< 0.2	1.87	8	120	< 0.5	2	0.16	< 0.5	5	31	9	3.02	< 10	60	0.05	10	0.40	135
L21700E 18600W	201	202	< 5	< 0.2	1.61	10	110	< 0.5	< 2	0.14	< 0.5	5	29	7	3.04	< 10	70	0.05	10	0.38	155
L21700E 18625W	201	202	< 5	< 0.2	1.48	6	100	< 0.5	< 2	0.13	< 0.5	4	24	9	2.20	< 10	20	0.04	10	0.32	105
L21700E 18650W	201	202	< 5	< 0.2	1.21	< 2	90	< 0.5	< 2	0.08	< 0.5	3	23	6	2.24	< 10	60	0.03	10	0.21	80
L21700E 18675W	201	202	< 5	< 0.2	1.04	4	90	< 0.5	< 2	0.11	< 0.5	3	21	8	1.89	< 10	70	0.03	10	0.25	85
L21700E 18700W	201	202	5	0.2	1.29	4	150	< 0.5	< 2	0.27	1.0	6	28	24	2.22	< 10	200	0.05	10	0.38	205
L21700E 18725W	201	202	5	< 0.2	1.34	8	170	< 0.5	< 2	0.18	< 0.5	5	24	15	1.95	< 10	60	0.07	10	0.33	135
L21700E 18750W	201	202	10	< 0.2	1.61	6	260	< 0.5	< 2	0.25	< 0.5	6	29	20	2.47	< 10	120	0.08	10	0.43	225
L21700E 18775W	201	202	10	0.2	1.58	14	200	< 0.5	< 2	0.37	0.5	4	36	20	2.36	< 10	400	0.08	10	0.37	180
L21700E 18800W	201	202	415	1.6	0.66	1025	420	1.0	< 2	0.33	7.0	7	27	54	3.65	< 10	720	0.19	30	0.06	495
L21700E 18825W	201	202	10	0.2	0.82	20	200	< 0.5	< 2	0.04	< 0.5	3	14	18	1.45	< 10	70	0.14	10	0.04	45
L21700E 18850W	201	202	10	< 0.2	0.83	64	200	< 0.5	< 2	0.05	0.5	5	16	34	2.47	< 10	80	0.13	20	0.05	110
L21700E 18875W	201	202	30	1.0	0.85	106	580	0.5	2	1.14	4.0	6	23	55	2.25	< 10	440	0.16	30	0.17	210
L21700E 18900W	201	202	10	1.0	0.98	6	350	< 0.5	< 2	1.25	3.5	6	25	34	1.33	< 10	840	0.06	10	0.26	440
L21700E 18925W	201	202	< 10	0.4	0.29	< 2	340	< 0.5	< 2	0.75	2.5	1	5	8	0.36	< 10	160	0.05	< 10	0.06	215
L21700E 18950W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21700E 18975W	201	202	5	0.2	1.41	2	210	< 0.5	< 2	0.33	0.5	6	28	13	1.97	< 10	460	0.08	10	0.40	165

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Page: 1-B
 Total P: 6
 Certificate: 25-AUG-97
 Invoice No.: 19737980
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS A9737980

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L21700E 18000N	201 202	< 1	< 0.01	55	1390	32	< 2	1	26	0.02	< 10	< 10	88	< 10	474
L21700E 18025N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21700E 18050N	201 202	< 1	< 0.01	40	830	12	< 2	1	19	0.03	< 10	< 10	99	< 10	304
L21700E 18075N	201 202	3	< 0.01	14	490	10	< 2	3	12	0.07	< 10	< 10	79	< 10	106
L21700E 18100N	201 202	7	0.01	12	880	20	< 2	< 1	25	0.03	< 10	< 10	82	< 10	74
L21700E 18125N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21700E 18150N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21700E 18175N	201 202	6	< 0.01	32	1320	20	2	1	32	0.04	< 10	< 10	124	< 10	182
L21700E 18200N	201 202	1	< 0.01	19	840	8	< 2	1	20	0.03	< 10	< 10	80	< 10	120
L21700E 18225N	201 202	1	< 0.01	13	490	10	< 2	2	13	0.05	< 10	< 10	64	< 10	50
L21700E 18250N	201 202	1	< 0.01	15	520	8	< 2	3	18	0.05	< 10	< 10	90	< 10	54
L21700E 18275N	201 202	1	< 0.01	8	580	12	< 2	< 1	17	0.04	< 10	< 10	123	< 10	44
L21700E 18300N	201 202	5	< 0.01	19	720	8	4	< 1	18	0.03	< 10	< 10	156	< 10	96
L21700E 18325N	201 202	1	< 0.01	14	840	10	< 2	< 1	13	0.02	< 10	< 10	112	< 10	72
L21700E 18350N	201 202	1	< 0.01	11	440	10	< 2	2	12	0.05	< 10	< 10	103	< 10	50
L21700E 18375N	201 202	1	< 0.01	11	450	10	2	1	13	0.04	< 10	< 10	59	< 10	42
L21700E 18400N	201 202	< 1	< 0.01	7	720	10	< 2	< 1	13	0.01	< 10	< 10	57	< 10	26
L21700E 18425N	201 202	< 1	< 0.01	11	490	8	< 2	2	17	0.06	< 10	< 10	70	< 10	44
L21700E 18450N	201 202	< 1	< 0.01	10	500	12	< 2	1	16	0.05	< 10	< 10	65	< 10	36
L21700E 18475N	201 202	< 1	< 0.01	12	430	8	2	2	15	0.06	< 10	< 10	68	< 10	46
L21700E 18500N	201 202	1	< 0.01	10	500	10	< 2	< 1	15	0.03	< 10	< 10	70	< 10	36
L21700E 18525N	201 202	< 1	< 0.01	10	600	8	< 2	3	15	0.07	< 10	< 10	68	< 10	42
L21700E 18550N	201 202	< 1	< 0.01	10	570	8	< 2	2	16	0.06	< 10	< 10	64	< 10	38
L21700E 18575N	201 202	< 1	< 0.01	15	390	8	2	3	14	0.06	< 10	< 10	69	< 10	56
L21700E 18600N	201 202	1	< 0.01	13	340	8	< 2	3	12	0.06	< 10	< 10	62	< 10	46
L21700E 18625N	201 202	< 1	< 0.01	11	410	8	< 2	1	12	0.04	< 10	< 10	49	< 10	42
L21700E 18650N	201 202	1	< 0.01	8	630	10	< 2	1	10	0.03	< 10	< 10	66	< 10	40
L21700E 18675N	201 202	< 1	< 0.01	10	430	8	< 2	1	11	0.03	< 10	< 10	63	< 10	46
L21700E 18700N	201 202	4	< 0.01	29	1020	6	< 2	3	22	0.05	< 10	< 10	127	< 10	176
L21700E 18725N	201 202	1	< 0.01	15	510	8	< 2	2	20	0.05	< 10	< 10	62	< 10	60
L21700E 18750N	201 202	1	< 0.01	23	680	8	< 2	4	22	0.06	< 10	10	72	< 10	82
L21700E 18775N	201 202	3	< 0.01	27	730	10	4	2	29	0.05	< 10	< 10	141	< 10	136
L21700E 18800N	201 202	9	< 0.01	80	2140	148	534	4	69	< 0.01	< 10	< 10	112	< 10	688
L21700E 18825N	201 202	1	0.01	11	710	20	14	< 1	27	< 0.01	< 10	< 10	35	< 10	66
L21700E 18850N	201 202	4	< 0.01	26	1250	32	30	1	13	< 0.01	< 10	< 10	43	< 10	140
L21700E 18875N	201 202	14	< 0.01	66	1200	42	120	3	78	< 0.01	< 10	< 10	226	< 10	450
L21700E 18900N	201 202	3	< 0.01	44	1190	8	18	3	66	0.02	< 10	< 10	128	< 10	258
L21700E 18925N	201 202	1	0.01	7	1040	2	< 2	< 1	55	0.01	< 10	< 10	10	< 10	32
L21700E 18950N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21700E 18975N	201 202	3	< 0.01	23	900	8	16	3	27	0.06	< 10	< 10	125	< 10	160

CERTIFICATION: _____



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Page 12-A
 Total P. 6
 Certificate 25-AUG-97
 Invoice No. 1973798C
 P.O. Number
 Account OQN

CERTIFICATE OF ANALYSIS A9737980

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
L21700E 19000N	201	202	< 5	0.8	1.59	< 2	290	< 0.5	< 2	0.33	1.5	13	30	16	1.89	< 10	590	0.08	10	0.34	485
L21700E 19025N	201	202	5	0.6	1.01	2	180	< 0.5	< 2	0.34	1.0	5	24	16	1.56	< 10	380	0.06	10	0.29	155
L21700E 19050N	201	202	< 5	0.8	1.36	6	270	< 0.5	< 2	0.27	1.5	6	30	21	1.97	< 10	490	0.07	10	0.29	175
L21700E 19075N	201	202	< 5	0.4	1.55	8	290	< 0.5	< 2	0.26	2.0	6	33	16	1.63	< 10	350	0.07	10	0.34	150
L21700E 19100N	201	202	5	0.4	1.34	< 2	320	< 0.5	< 2	0.24	0.5	3	25	10	1.20	< 10	260	0.09	10	0.25	85
L21700E 19125N	201	202	< 5	0.2	1.49	8	480	< 0.5	< 2	0.20	< 0.5	4	22	11	1.81	< 10	120	0.11	20	0.30	105
L21700E 19150N	201	202	< 5	< 0.2	1.53	12	390	< 0.5	< 2	0.12	< 0.5	7	23	21	2.69	< 10	60	0.13	20	0.26	185
L21700E 19175N	201	202	< 5	0.2	1.63	6	710	< 0.5	< 2	0.44	1.5	7	23	22	2.50	< 10	50	0.12	10	0.44	180
L21700E 19200N	201	202	< 5	1.0	1.57	4	1310	0.5	< 2	0.44	2.0	7	20	19	1.76	< 10	230	0.19	10	0.20	125
L21700E 19225N	201	202	< 5	< 0.2	1.20	8	320	< 0.5	2	0.17	0.5	9	22	18	2.67	< 10	90	0.09	20	0.30	350
L21700E 19250N	201	202	< 5	0.6	1.07	< 2	750	< 0.5	< 2	0.37	0.5	6	14	22	2.21	< 10	210	0.09	10	0.14	160
L21700E 19275N	201	202	< 5	0.2	1.44	6	490	< 0.5	< 2	0.12	< 0.5	4	22	15	2.27	< 10	80	0.15	10	0.32	115
L21700E 19300N	201	202	< 5	0.2	1.26	4	490	< 0.5	< 2	0.11	< 0.5	5	20	18	1.98	< 10	140	0.08	10	0.26	155
L21700E 19325N	201	202	< 5	< 0.2	1.41	8	370	< 0.5	< 2	0.08	< 0.5	5	20	15	2.37	< 10	60	0.06	< 10	0.28	155
L21700E 19350N	201	202	< 5	< 0.2	1.29	< 2	380	< 0.5	< 2	0.06	< 0.5	3	19	13	2.13	< 10	30	0.04	< 10	0.22	90
L21800E 19375N	201	202	< 5	< 0.2	1.13	< 2	170	< 0.5	< 2	0.12	< 0.5	4	18	12	1.84	< 10	10	0.04	< 10	0.34	145
L21800E 18000N	201	202	< 5	0.2	1.58	6	260	0.5	< 2	0.67	3.5	9	50	29	2.48	< 10	40	0.07	10	0.76	530
L21800E 18025N	201	202	< 5	0.6	1.02	< 2	340	< 0.5	< 2	0.26	1.5	3	28	18	1.76	< 10	40	0.11	10	0.30	110
L21800E 18050N	201	202	< 5	0.8	0.46	< 2	130	< 0.5	< 2	0.11	3.5	1	13	15	0.64	< 10	120	0.08	< 10	0.09	65
L21800E 18075N	201	202	< 5	0.8	1.11	< 2	440	< 0.5	< 2	0.26	0.5	4	34	28	1.91	< 10	110	0.13	10	0.33	160
L21800E 18100N	201	202	15	0.2	0.84	< 2	180	< 0.5	< 2	0.15	0.5	4	30	22	1.95	< 10	60	0.09	10	0.20	95
L21800E 18125N	201	202	< 5	0.6	1.33	< 2	320	0.5	< 2	0.38	2.5	7	31	38	2.18	< 10	70	0.16	10	0.35	170
L21800E 18150N	201	202	not/ass	0.6	1.88	< 2	460	0.5	< 2	0.51	3.0	6	49	34	2.84	< 10	20	0.20	30	0.56	285
L21800E 18175N	201	202	10	1.0	2.43	6	510	1.0	< 2	0.61	3.0	21	43	48	3.12	< 10	70	0.10	30	0.58	600
L21800E 18200N	201	202	< 5	1.6	0.56	< 2	260	< 0.5	2	0.77	5.0	1	19	30	0.82	< 10	130	0.04	20	0.10	25
L21800E 18225N	201	202	10	2.4	1.22	2	280	0.5	< 2	0.59	3.5	3	66	57	1.44	< 10	150	0.06	10	0.36	55
L21800E 18250N	201	202	< 5	0.4	1.48	8	220	< 0.5	< 2	0.20	< 0.5	3	26	15	2.00	< 10	50	0.05	10	0.36	105
L21800E 18275N	201	202	< 5	< 0.2	1.52	6	180	< 0.5	< 2	0.18	0.5	6	26	15	2.23	< 10	30	0.05	10	0.38	220
L21800E 18300N	201	202	10	< 0.2	1.25	2	110	< 0.5	< 2	0.12	< 0.5	3	22	10	1.78	< 10	50	0.04	10	0.26	105
L21800E 18325N	201	202	< 5	0.2	1.34	8	160	< 0.5	< 2	0.18	0.5	4	35	14	2.02	< 10	50	0.05	10	0.31	150
L21800E 18350N	201	202	< 5	< 0.2	1.53	10	160	< 0.5	< 2	0.16	1.0	4	53	21	2.15	< 10	40	0.06	10	0.30	140
L21800E 18375N	201	202	< 5	< 0.2	1.90	10	190	< 0.5	< 2	0.20	0.5	5	45	16	2.63	< 10	70	0.07	10	0.39	175
L21800E 18400N	201	202	< 5	0.2	2.23	10	220	0.5	< 2	0.18	1.0	6	65	31	2.55	< 10	110	0.09	10	0.37	180
L21800E 18425N	201	202	< 5	0.2	2.10	8	180	< 0.5	< 2	0.20	0.5	5	49	29	2.69	< 10	100	0.08	10	0.43	210
L21800E 18450N	201	202	< 5	0.2	1.74	16	180	< 0.5	< 2	0.31	1.5	7	66	36	2.77	< 10	50	0.11	20	0.40	295
L21800E 18475N	201	202	< 5	< 0.2	1.86	4	180	< 0.5	< 2	0.13	1.0	4	34	13	2.13	< 10	50	0.05	10	0.27	195
L21800E 18500N	201	202	< 5	< 0.2	1.90	6	130	< 0.5	2	0.12	< 0.5	4	41	8	2.79	< 10	30	0.06	10	0.34	225
L21800E 18525N	201	202	< 5	< 0.2	1.62	4	130	< 0.5	< 2	0.17	< 0.5	3	34	7	2.25	< 10	70	0.06	10	0.34	115
L21800E 18550N	201	202	< 5	< 0.2	1.76	8	120	< 0.5	< 2	0.14	< 0.5	6	38	15	2.94	< 10	80	0.05	10	0.40	195
L21800E 18575N	201	202	< 5	< 0.2	1.35	8	150	< 0.5	< 2	0.23	< 0.5	4	26	17	1.93	< 10	100	0.05	10	0.33	160

CERTIFICATION:



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
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Page: 12-B
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 Certificate No.: 25-AUG-97
 Invoice No.: 19737980
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CERTIFICATE OF ANALYSIS A9737980

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L21700E 19000W	201 202	3 < 0.01		23	1030	8	26	3	29	0.03	< 10	< 10	153	< 10	176
L21700E 19025W	201 202	3 < 0.01		23	860	8	42	3	26	0.04	< 10	< 10	106	< 10	164
L21700E 19050W	201 202	5 < 0.01		22	1120	8	8	2	28	0.03	< 10	< 10	237	< 10	160
L21700E 19075W	201 202	2 < 0.01		22	890	8	4	3	24	0.04	< 10	< 10	186	< 10	164
L21700E 19100W	201 202	< 1 < 0.01		15	570	6	2	2	24	0.04	< 10	< 10	105	< 10	62
L21700E 19125W	201 202	1 < 0.01		16	520	12	8	3	32	0.01	< 10	< 10	53	< 10	64
L21700E 19150W	201 202	1 0.01		20	620	20	2	4	36	0.01	< 10	< 10	48	< 10	94
L21700E 19175W	201 202	1 0.01		28	450	12	2	4	77	0.01	< 10	< 10	49	< 10	94
L21700E 19200W	201 202	1 0.01		34	1030	16	< 2	5	79	< 0.01	< 10	< 10	46	< 10	82
L21700E 19225W	201 202	1 < 0.01		24	580	14	< 2	4	32	0.02	< 10	< 10	43	< 10	98
L21700E 19250W	201 202	2 0.01		23	1410	20	< 2	6	65	0.01	< 10	< 10	33	< 10	64
L21700E 19275W	201 202	3 0.01		17	490	18	2	3	59	0.01	< 10	< 10	65	< 10	88
L21700E 19300W	201 202	2 < 0.01		16	570	12	< 2	2	38	0.01	< 10	< 10	43	< 10	58
L21700E 19325W	201 202	1 < 0.01		14	440	12	2	2	26	0.01	< 10	< 10	44	< 10	60
L21700E 19350W	201 202	1 < 0.01		11	390	8	< 2	2	15	0.01	< 10	< 10	42	< 10	38
L21700E 19375W	201 202	1 < 0.01		14	300	6	< 2	1	12	0.02	< 10	< 10	31	< 10	44
L21800E 18000W	201 202	1 < 0.01		48	1550	14	< 2	3	33	0.09	< 10	< 10	110	< 10	300
L21800E 18025W	201 202	< 1 < 0.01		21	910	12	< 2	< 1	36	0.04	< 10	< 10	117	< 10	104
L21800E 18050W	201 202	2 < 0.01		7	880	4	< 2	< 1	18	0.04	< 10	< 10	32	< 10	84
L21800E 18075W	201 202	2 < 0.01		29	1100	10	2	1	24	0.09	< 10	< 10	73	< 10	80
L21800E 18100W	201 202	1 < 0.01		17	730	10	< 2	1	27	0.08	< 10	< 10	71	< 10	68
L21800E 18125W	201 202	2 0.01		29	1250	10	< 2	1	53	0.08	< 10	< 10	67	< 10	106
L21800E 18150W	201 202	1 < 0.01		41	1000	20	< 2	4	94	0.11	< 10	< 10	130	< 10	254
L21800E 18175W	201 202	3 0.01		48	1360	72	< 2	5	127	0.09	< 10	< 10	139	< 10	314
L21800E 18200W	201 202	1 < 0.01		29	1720	10	< 2	3	78	0.03	< 10	< 10	28	< 10	130
L21800E 18225W	201 202	1 0.01		86	1650	12	2	2	77	0.04	< 10	< 10	137	< 10	804
L21800E 18250W	201 202	1 < 0.01		18	730	8	< 2	1	19	0.03	< 10	< 10	77	< 10	100
L21800E 18275W	201 202	1 < 0.01		18	720	14	2	1	16	0.03	< 10	< 10	76	< 10	88
L21800E 18300W	201 202	1 < 0.01		11	620	8	< 2	< 1	12	0.01	< 10	< 10	64	< 10	52
L21800E 18325W	201 202	2 < 0.01		27	1030	8	< 2	< 1	15	0.01	< 10	< 10	164	< 10	168
L21800E 18350W	201 202	4 < 0.01		42	1760	10	2	< 1	14	0.01	< 10	< 10	222	< 10	260
L21800E 18375W	201 202	2 < 0.01		32	1090	10	< 2	3	17	0.06	< 10	< 10	129	< 10	220
L21800E 18400W	201 202	3 < 0.01		62	1580	14	< 2	4	17	0.05	< 10	< 10	242	< 10	566
L21800E 18425W	201 202	4 < 0.01		47	1020	10	4	3	18	0.05	< 10	< 10	222	< 10	360
L21800E 18450W	201 202	10 < 0.01		103	1860	8	6	3	21	0.03	< 10	< 10	356	< 10	872
L21800E 18475W	201 202	1 < 0.01		13	1050	12	4	3	14	0.05	< 10	< 10	151	< 10	116
L21800E 18500W	201 202	3 < 0.01		18	370	10	< 2	3	14	0.07	< 10	< 10	189	< 10	146
L21800E 18525W	201 202	1 < 0.01		13	570	10	< 2	1	17	0.05	< 10	< 10	108	< 10	82
L21800E 18550W	201 202	3 < 0.01		23	590	10	< 2	3	14	0.06	< 10	< 10	142	< 10	128
L21800E 18575W	201 202	1 < 0.01		19	780	8	< 2	< 1	18	0.03	< 10	< 10	72	< 10	136

CERTIFICATION: *Heather B...*



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: VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT

Page 3-A
Total 6
Certif. Date: 25-AUG-97
Invoice No. 19737980
P.O. Number
Account OQN

CERTIFICATE OF ANALYSIS

A9737980

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
L21800E 18600W	201	202	< 5	< 0.2	1.25	4	100	< 0.5	< 2	0.16	< 0.5	3	26	12	1.76	< 10	190	0.04	10	0.26	95
L21800E 18625W	201	202	< 5	< 0.2	1.53	12	320	< 0.5	< 2	0.38	0.5	8	29	26	2.28	< 10	170	0.05	10	0.46	260
L21800E 18650W	201	202	< 5	< 0.2	1.32	6	100	< 0.5	< 2	0.11	< 0.5	3	26	10	2.18	< 10	150	0.04	10	0.25	155
L21800E 18675W	201	202	< 5	< 0.2	1.31	6	130	< 0.5	< 2	0.17	< 0.5	3	30	16	1.70	< 10	390	0.05	10	0.23	85
L21800E 18700W	201	202	< 5	0.6	1.43	8	280	0.5	< 2	0.22	1.0	5	29	40	1.84	< 10	400	0.05	10	0.20	120
L21800E 18725W	201	202	< 5	0.6	1.45	2	310	< 0.5	< 2	0.57	0.5	5	31	22	1.73	< 10	420	0.07	10	0.34	145
L21800E 18750W	201	202	< 5	< 0.2	1.30	6	160	< 0.5	< 2	0.18	< 0.5	4	25	10	1.73	< 10	110	0.07	10	0.32	110
L21800E 18775W	201	202	< 5	< 0.2	1.41	12	180	< 0.5	< 2	0.18	< 0.5	4	26	12	1.88	< 10	100	0.07	10	0.34	120
L21800E 18800W	201	202	< 5	< 0.2	1.26	10	180	< 0.5	2	0.20	0.5	5	27	21	1.95	< 10	240	0.09	10	0.29	140
L21800E 18825W	201	202	< 5	< 0.2	1.52	16	210	< 0.5	< 2	0.13	< 0.5	3	26	17	1.74	< 10	230	0.09	10	0.18	80
L21800E 18850W	201	202	< 5	< 0.2	1.45	40	170	< 0.5	< 2	0.10	< 0.5	5	21	11	2.62	< 10	10	0.08	10	0.23	140
L21800E 18875W	201	202	< 5	< 0.2	1.20	10	190	< 0.5	< 2	0.06	< 0.5	3	14	10	1.13	< 10	10	0.08	20	0.09	125
L21800E 18900W	201	202	< 5	< 0.2	1.87	26	150	< 0.5	< 2	0.09	< 0.5	7	28	18	4.07	< 10	10	0.12	20	0.31	275
L21800E 18925W	201	202	< 5	< 0.2	1.59	22	180	0.5	< 2	0.11	< 0.5	14	24	25	3.88	< 10	40	0.13	20	0.31	595
L21800E 18950W	201	202	< 5	< 0.2	1.23	14	140	< 0.5	< 2	0.06	< 0.5	7	17	26	3.26	< 10	40	0.10	20	0.11	210
L21800E 18975W	201	202	< 5	< 0.2	1.39	2	240	< 0.5	< 2	0.06	< 0.5	3	16	24	2.35	< 10	40	0.13	30	0.11	95
L21800E 19000W	201	202	< 5	< 0.2	1.34	8	160	< 0.5	< 2	0.08	< 0.5	7	22	23	3.34	< 10	30	0.12	20	0.24	255
L21800E 19025W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21800E 19050W	201	202	10	0.8	1.37	8	550	0.5	< 2	0.80	2.5	11	27	30	1.95	< 10	580	0.07	10	0.34	1275
L21800E 19075W	201	202	< 5	0.6	1.67	< 2	340	< 0.5	< 2	0.38	0.5	7	30	13	1.89	< 10	340	0.07	10	0.38	290
L21800E 19100W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21800E 19125W	201	202	< 5	0.4	1.68	6	290	< 0.5	< 2	0.29	1.0	9	35	14	1.94	< 10	340	0.09	10	0.39	335
L21800E 19150W	201	202	< 5	0.2	1.65	4	310	< 0.5	< 2	0.29	1.5	7	34	14	1.93	< 10	320	0.08	10	0.37	300
L21800E 19175W	201	202	< 5	< 0.2	1.34	6	240	< 0.5	< 2	0.19	< 0.5	3	25	12	1.53	< 10	210	0.07	10	0.26	80
L21800E 19200W	201	202	< 5	< 0.2	1.41	10	250	< 0.5	< 2	0.22	< 0.5	5	25	10	1.91	< 10	100	0.08	10	0.32	265
L21800E 19225W	201	202	< 5	< 0.2	1.39	2	500	< 0.5	< 2	0.37	< 0.5	6	23	12	1.85	< 10	180	0.09	10	0.33	400
L21800E 19250W	201	202	< 5	0.6	1.49	16	1210	0.5	< 2	0.06	1.5	8	22	47	3.03	< 10	330	0.21	< 10	0.28	155
L21800E 19275W	201	202	< 5	< 0.2	2.53	16	400	0.5	2	0.01	< 0.5	18	37	29	5.23	< 10	20	0.19	< 10	0.52	545
L21800E 19300W	201	202	< 5	0.2	1.68	16	1100	0.5	< 2	0.15	< 0.5	6	25	24	2.53	< 10	340	0.15	10	0.34	170
L21800E 19325W	201	202	25	0.2	1.74	42	1190	0.5	2	0.26	1.5	9	26	14	2.72	< 10	90	0.08	10	0.28	645
L21800E 19350W	201	202	< 5	< 0.2	1.94	8	400	< 0.5	2	0.13	< 0.5	8	28	13	2.77	< 10	< 10	0.07	10	0.44	215
L21800E 19375W	201	202	< 5	< 0.2	1.66	2	260	< 0.5	< 2	0.13	< 0.5	6	24	9	2.14	< 10	30	0.05	10	0.32	175
L21800E 19400W	201	202	< 5	< 0.2	1.64	2	200	< 0.5	< 2	0.18	< 0.5	5	25	9	2.22	< 10	20	0.05	10	0.35	120
L21900E 18000W	201	202	< 5	0.2	1.15	8	130	< 0.5	< 2	0.15	1.5	3	31	28	2.00	< 10	30	0.07	10	0.30	130
L21900E 18025W	201	202	< 5	0.2	1.09	< 2	160	< 0.5	< 2	0.09	1.0	4	19	16	2.07	< 10	10	0.05	10	0.15	285
L21900E 18050W	201	202	< 5	0.2	2.04	18	160	0.5	< 2	0.12	0.5	7	35	15	3.37	< 10	40	0.08	10	0.41	340
L21900E 18075W	201	202	< 5	0.2	2.37	10	270	0.5	2	0.13	0.5	8	46	34	3.60	< 10	70	0.13	20	0.47	240
L21900E 18100W	201	202	< 5	< 0.2	1.44	14	160	< 0.5	< 2	0.12	< 0.5	7	28	22	3.58	< 10	40	0.12	10	0.27	425
L21900E 18125W	201	202	< 5	0.2	2.40	26	480	1.5	< 2	0.19	2.0	8	56	40	4.00	< 10	30	0.20	50	0.75	270
L21900E 18150W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION:

[Handwritten Signature]



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Page: 3-B
 Total: 6
 Certificate: 25-AUG-97
 Invoice No.: 19737980
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS A9737980

SAMPLE	PREP		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L21800E 18600W	201	202	< 1	< 0.01	12	1100	8	< 2	< 1	13	0.01	< 10	< 10	82	< 10	82
L21800E 18625W	201	202	1	< 0.01	33	720	6	< 2	4	22	0.04	< 10	< 10	99	< 10	136
L21800E 18650W	201	202	3	< 0.01	14	610	10	< 2	1	11	0.04	< 10	< 10	117	< 10	84
L21800E 18675W	201	202	3	< 0.01	21	1020	8	< 2	< 1	14	0.01	< 10	< 10	136	< 10	114
L21800E 18700W	201	202	2	0.01	30	1330	8	4	1	21	0.01	< 10	< 10	107	< 10	128
L21800E 18725W	201	202	1	0.01	25	1010	8	4	1	36	0.03	< 10	< 10	116	< 10	148
L21800E 18750W	201	202	< 1	< 0.01	12	550	6	6	1	17	0.05	< 10	< 10	72	< 10	56
L21800E 18775W	201	202	1	< 0.01	14	540	8	6	1	17	0.04	< 10	< 10	63	< 10	58
L21800E 18800W	201	202	2	< 0.01	23	1050	12	54	1	20	0.01	< 10	< 10	98	< 10	118
L21800E 18825W	201	202	1	< 0.01	14	890	16	74	< 1	17	0.01	< 10	< 10	73	< 10	70
L21800E 18850W	201	202	1	< 0.01	10	280	18	98	2	30	0.04	< 10	< 10	55	< 10	48
L21800E 18875W	201	202	< 1	< 0.01	7	280	8	22	1	15	0.01	< 10	< 10	41	< 10	32
L21800E 18900W	201	202	1	< 0.01	20	450	12	12	3	19	0.06	< 10	< 10	75	< 10	74
L21800E 18925W	201	202	1	< 0.01	28	760	20	6	3	19	0.03	< 10	< 10	52	< 10	88
L21800E 18950W	201	202	1	< 0.01	17	580	16	2	2	16	0.02	< 10	< 10	52	< 10	70
L21800E 18975W	201	202	1	0.01	10	550	12	< 2	2	18	0.01	< 10	< 10	40	< 10	54
L21800E 19000W	201	202	1	< 0.01	15	670	12	4	2	16	0.03	< 10	< 10	51	< 10	70
L21800E 19025W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21800E 19050W	201	202	3	< 0.01	35	1390	12	36	3	44	0.01	< 10	< 10	100	< 10	204
L21800E 19075W	201	202	2	< 0.01	19	1070	10	30	3	27	0.03	< 10	< 10	108	< 10	142
L21800E 19100W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21800E 19125W	201	202	4	< 0.01	22	940	8	12	3	26	0.05	< 10	< 10	214	< 10	182
L21800E 19150W	201	202	3	< 0.01	22	930	8	4	3	26	0.05	< 10	< 10	215	< 10	176
L21800E 19175W	201	202	< 1	< 0.01	14	640	6	< 2	1	20	0.04	< 10	< 10	79	< 10	56
L21800E 19200W	201	202	1	< 0.01	15	640	10	2	2	21	0.04	< 10	< 10	80	< 10	68
L21800E 19225W	201	202	1	< 0.01	18	510	10	< 2	3	46	0.02	< 10	< 10	56	< 10	60
L21800E 19250W	201	202	9	0.03	41	590	20	2	4	207	< 0.01	< 10	< 10	132	< 10	192
L21800E 19275W	201	202	3	0.01	35	600	20	< 2	5	78	< 0.01	< 10	< 10	61	< 10	182
L21800E 19300W	201	202	1	< 0.01	31	610	14	< 2	5	52	< 0.01	< 10	< 10	53	< 10	98
L21800E 19325W	201	202	< 1	< 0.01	15	410	14	< 2	3	39	0.06	< 10	< 10	60	< 10	68
L21800E 19350W	201	202	< 1	< 0.01	20	180	8	< 2	3	23	0.05	< 10	< 10	59	< 10	70
L21800E 19375W	201	202	1	< 0.01	15	240	8	< 2	3	14	0.06	< 10	< 10	48	< 10	56
L21800E 19400W	201	202	< 1	< 0.01	14	410	8	< 2	3	16	0.05	< 10	< 10	49	< 10	48
L21900E 18000W	201	202	3	< 0.01	25	560	14	< 2	< 1	20	0.04	< 10	< 10	185	< 10	218
L21900E 18025W	201	202	< 1	< 0.01	9	760	12	< 2	1	12	0.04	< 10	< 10	67	< 10	68
L21900E 18050W	201	202	2	< 0.01	20	470	10	< 2	3	14	0.08	< 10	< 10	109	< 10	88
L21900E 18075W	201	202	< 1	< 0.01	33	1020	20	< 2	3	16	0.06	< 10	< 10	98	< 10	110
L21900E 18100W	201	202	1	< 0.01	18	730	22	< 2	2	14	0.07	< 10	< 10	93	< 10	78
L21900E 18125W	201	202	1	< 0.01	50	740	32	< 2	7	18	0.09	< 10	10	125	< 10	264
L21900E 18150W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION: _____



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
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Project:
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Page 4-A
 Total 6
 Certificate Date: 25-AUG-97
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CERTIFICATE OF ANALYSIS A9737980

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
L21900E 18175N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21900E 18200N	201 202	30	< 0.2	1.76	8	230	0.5	< 2	0.18	1.0	4	27	39	2.30	< 10	40	0.08	30	0.34	170
L21900E 18225N	201 202	< 5	1.0	2.05	10	660	1.5	< 2	3.51	40.0	5	97	117	1.63	< 10	40	0.08	40	0.64	340
L21900E 18250N	201 202	< 5	0.6	0.49	< 2	370	0.5	< 2	4.39	31.0	2	17	69	0.57	< 10	110	0.03	< 10	0.16	450
L21900E 18275N	201 202	< 5	0.4	1.11	10	360	0.5	< 2	2.23	19.5	5	74	76	1.32	< 10	60	0.06	30	0.61	270
L21900E 18300N	201 202	< 5	0.2	0.46	2	130	< 0.5	< 2	2.98	10.5	1	34	36	0.59	< 10	90	0.04	< 10	0.14	110
L21900E 18325N	201 202	< 5	0.2	0.85	6	250	0.5	< 2	3.53	30.5	3	31	82	0.93	< 10	140	0.04	10	0.29	280
L21900E 18350N	201 202	< 5	0.6	1.58	2	610	0.5	< 2	2.19	7.5	9	30	44	1.66	< 10	170	0.07	10	0.37	1090
L21900E 18375N	201 202	< 5	0.2	1.88	12	260	0.5	< 2	0.25	0.5	7	32	21	2.50	< 10	60	0.08	10	0.62	165
L21900E 18400N	201 202	< 5	< 0.2	2.29	30	390	0.5	< 2	0.71	0.5	5	35	23	2.11	< 10	40	0.07	10	1.22	165
L21900E 18425N	201 202	< 5	0.2	1.12	18	150	< 0.5	< 2	0.31	0.5	4	19	14	1.77	< 10	20	0.06	10	0.39	130
L21900E 18450N	201 202	not/##	0.2	0.87	4	250	< 0.5	< 2	0.83	1.5	8	14	13	1.36	< 10	60	0.07	< 10	0.35	725
L21900E 18475N	201 202	< 5	< 0.2	1.15	2	180	< 0.5	< 2	0.24	0.5	5	18	9	1.76	< 10	40	0.08	10	0.40	160
L21900E 18500N	201 202	< 5	0.2	2.02	2	200	< 0.5	< 2	0.17	< 0.5	7	28	10	2.69	< 10	10	0.07	10	0.47	225
L21900E 18525N	201 202	< 5	< 0.2	1.80	2	220	< 0.5	< 2	0.19	< 0.5	7	28	6	3.47	< 10	10	0.09	10	0.41	275
L21900E 18550N	201 202	< 5	0.4	1.04	8	200	< 0.5	< 2	0.13	1.0	4	18	17	1.71	< 10	20	0.12	20	0.24	120
L21900E 18575N	201 202	< 5	0.2	1.04	6	290	< 0.5	< 2	0.28	0.5	5	18	14	1.42	< 10	30	0.11	10	0.34	265
L21900E 18600N	201 202	25	0.2	0.37	< 2	200	< 0.5	< 2	1.52	3.5	1	9	16	0.50	< 10	90	0.03	< 10	0.15	40
L21900E 18625N	201 202	< 5	0.6	0.89	< 2	270	< 0.5	< 2	3.09	1.5	4	13	24	0.93	< 10	210	0.05	10	0.49	325
L21900E 18650N	201 202	230	0.4	1.29	606	180	0.5	2	0.24	3.5	8	26	21	3.60	< 10	110	0.11	30	0.29	585
L21900E 18675N	201 202	< 5	< 0.2	2.03	12	170	< 0.5	< 2	0.11	0.5	6	28	12	2.99	< 10	30	0.10	20	0.31	345
L21900E 18700N	201 202	< 5	< 0.2	1.95	10	140	< 0.5	< 2	0.16	< 0.5	5	27	9	3.03	< 10	40	0.06	10	0.33	300
L21900E 18725N	201 202	< 5	< 0.2	2.38	12	190	0.5	2	0.20	< 0.5	10	32	14	2.88	< 10	50	0.09	10	0.49	360
L21900E 18750N	201 202	< 5	< 0.2	1.43	6	340	< 0.5	2	0.15	< 0.5	9	21	20	2.58	< 10	30	0.12	20	0.35	280
L21900E 18775N	201 202	< 5	0.2	1.29	6	140	< 0.5	< 2	0.17	< 0.5	4	24	9	1.82	< 10	100	0.05	10	0.32	110
L21900E 18800N	201 202	< 5	< 0.2	1.40	4	200	< 0.5	< 2	0.16	< 0.5	4	23	13	2.04	< 10	150	0.05	10	0.32	110
L21900E 18825N	201 202	< 5	0.2	1.48	10	240	< 0.5	< 2	0.20	< 0.5	5	25	18	2.21	< 10	260	0.06	10	0.33	120
L21900E 18850N	201 202	< 5	0.4	1.66	12	310	< 0.5	< 2	0.24	< 0.5	8	29	22	2.40	< 10	310	0.08	10	0.35	310
L21900E 18875N	201 202	< 5	< 0.2	1.41	14	200	< 0.5	< 2	0.19	< 0.5	5	25	20	2.08	< 10	210	0.09	10	0.35	155
L21900E 18900N	201 202	5	< 0.2	1.39	10	220	< 0.5	< 2	0.20	< 0.5	5	23	17	1.86	< 10	100	0.08	10	0.35	120
L21900E 18925N	201 202	< 5	< 0.2	1.65	10	290	< 0.5	< 2	0.17	< 0.5	4	25	18	2.09	< 10	70	0.08	20	0.28	150
L21900E 18950N	201 202	< 5	< 0.2	1.41	8	220	< 0.5	< 2	0.10	< 0.5	5	20	11	2.32	< 10	20	0.07	10	0.21	190
L21900E 18975N	201 202	< 5	< 0.2	1.81	6	90	< 0.5	< 2	0.10	< 0.5	6	27	8	3.96	< 10	30	0.06	10	0.28	325
L21900E 19000N	201 202	< 5	< 0.2	1.39	< 2	110	< 0.5	< 2	0.10	< 0.5	2	19	7	1.95	< 10	10	0.07	20	0.18	155
L21900E 19025N	201 202	< 5	< 0.2	1.18	2	360	0.5	< 2	0.06	0.5	7	19	31	3.16	< 10	30	0.16	40	0.13	190
L21900E 19050N	201 202	< 5	< 0.2	1.85	4	450	0.5	< 2	0.12	< 0.5	16	47	36	3.72	< 10	40	0.20	30	0.77	605
L21900E 19075N	201 202	< 5	< 0.2	1.70	8	540	0.5	< 2	0.19	< 0.5	20	38	35	3.39	< 10	40	0.16	30	0.64	845
L21900E 19100N	201 202	not/##	< 0.2	1.02	2	270	< 0.5	< 2	0.10	< 0.5	6	20	16	1.82	< 10	80	0.11	10	0.21	170
L21900E 19125N	201 202	< 5	< 0.2	1.28	6	340	0.5	< 2	0.18	< 0.5	7	22	18	2.06	< 10	60	0.13	20	0.35	175
L21900E 19150N	201 202	< 5	0.2	1.74	8	390	< 0.5	< 2	0.33	0.5	12	27	13	1.96	< 10	310	0.10	10	0.36	550

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Page: 4-B
 Total: 6
 Certif. Date: 25-AUG-97
 Invoice No.: 19737980
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS

A9737980

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L21900E 18175N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L21900E 18200N	201	202	1	0.01	34	780	26	< 2	1	36	0.05	< 10	< 10	96	< 10	166
L21900E 18225N	201	202	1	< 0.01	365	6510	12	< 2	5	150	0.06	< 10	< 10	603	< 10	2750
L21900E 18250N	201	202	< 1	0.01	82	1460	< 2	2	1	166	0.03	< 10	< 10	164	< 10	552
L21900E 18275N	201	202	1	0.01	231	2330	14	< 2	3	114	0.04	< 10	< 10	486	< 10	2230
L21900E 18300N	201	202	3	< 0.01	50	1060	6	< 2	2	113	0.04	< 10	< 10	234	< 10	484
L21900E 18325N	201	202	< 1	0.01	110	1770	8	2	2	122	0.04	< 10	< 10	252	< 10	754
L21900E 18350N	201	202	1	0.01	52	1660	2	< 2	4	103	0.04	< 10	< 10	100	< 10	248
L21900E 18375N	201	202	1	< 0.01	29	300	8	< 2	4	18	0.06	< 10	< 10	85	< 10	118
L21900E 18400N	201	202	1	< 0.01	28	590	6	2	3	122	0.09	< 10	< 10	72	< 10	102
L21900E 18425N	201	202	1	< 0.01	14	330	8	2	1	34	0.05	< 10	< 10	62	< 10	82
L21900E 18450N	201	202	1	< 0.01	12	550	6	< 2	1	41	0.04	< 10	< 10	48	< 10	66
L21900E 18475N	201	202	1	< 0.01	14	360	6	< 2	2	15	0.04	< 10	< 10	60	< 10	92
L21900E 18500N	201	202	1	< 0.01	19	220	8	< 2	3	14	0.07	< 10	< 10	82	< 10	130
L21900E 18525N	201	202	1	< 0.01	14	340	12	< 2	3	16	0.09	< 10	< 10	89	< 10	100
L21900E 18550N	201	202	2	< 0.01	19	470	8	< 2	1	12	0.03	< 10	< 10	88	< 10	130
L21900E 18575N	201	202	1	< 0.01	16	360	10	< 2	1	14	0.03	< 10	< 10	70	< 10	132
L21900E 18600N	201	202	1	0.01	10	870	2	2	1	33	0.03	< 10	< 10	18	< 10	82
L21900E 18625N	201	202	5	0.01	31	1550	4	16	3	73	0.02	< 10	< 10	73	< 10	162
L21900E 18650N	201	202	4	< 0.01	28	1460	96	1085	5	28	0.01	< 10	< 10	95	< 10	448
L21900E 18675N	201	202	1	< 0.01	13	520	14	412	3	13	0.04	< 10	< 10	67	< 10	100
L21900E 18700N	201	202	< 1	< 0.01	12	470	10	252	3	16	0.05	< 10	< 10	56	< 10	60
L21900E 18725N	201	202	< 1	< 0.01	21	530	8	52	4	17	0.07	< 10	< 10	52	< 10	82
L21900E 18750N	201	202	1	< 0.01	19	610	14	50	2	21	0.02	< 10	< 10	41	< 10	80
L21900E 18775N	201	202	1	< 0.01	13	600	6	< 2	1	15	0.03	< 10	< 10	68	< 10	68
L21900E 18800N	201	202	1	< 0.01	15	710	6	4	1	16	0.02	< 10	< 10	60	< 10	68
L21900E 18825N	201	202	1	< 0.01	17	960	8	16	1	20	0.02	< 10	< 10	73	< 10	76
L21900E 18850N	201	202	2	< 0.01	23	1020	10	30	1	25	0.01	< 10	< 10	96	< 10	104
L21900E 18875N	201	202	1	< 0.01	21	770	10	56	2	19	0.03	< 10	< 10	66	< 10	100
L21900E 18900N	201	202	< 1	< 0.01	16	570	8	44	1	19	0.03	< 10	< 10	50	< 10	64
L21900E 18925N	201	202	< 1	< 0.01	14	590	10	12	1	20	0.03	< 10	< 10	46	< 10	46
L21900E 18950N	201	202	1	< 0.01	11	240	10	8	2	16	0.05	< 10	< 10	56	< 10	40
L21900E 18975N	201	202	< 1	< 0.01	9	350	12	< 2	3	12	0.08	< 10	< 10	68	< 10	42
L21900E 19000N	201	202	1	< 0.01	6	330	10	< 2	2	12	0.06	< 10	< 10	54	< 10	30
L21900E 19025N	201	202	1	< 0.01	21	690	20	< 2	1	11	0.01	< 10	< 10	44	< 10	70
L21900E 19050N	201	202	< 1	0.02	54	860	12	< 2	4	17	0.04	< 10	< 10	61	< 10	80
L21900E 19075N	201	202	< 1	< 0.01	52	620	16	< 2	5	29	0.04	< 10	< 10	46	< 10	110
L21900E 19100N	201	202	< 1	< 0.01	14	730	10	< 2	3	19	0.05	< 10	< 10	34	< 10	50
L21900E 19125N	201	202	< 1	< 0.01	19	490	12	< 2	3	21	0.03	< 10	< 10	34	< 10	66
L21900E 19150N	201	202	2	< 0.01	20	870	8	38	3	25	0.03	< 10	< 10	90	< 10	126

CERTIFICATION:

Hart Bunker



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT

Page: 5-A
Total: 6
Certificate: 25-AUG-97
Invoice No.: 19737980
P.O. Number:
Account: OQN

CERTIFICATE OF ANALYSIS

A9737980

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
L21900E 19175W	201 202	< 5	< 0.2	1.15	8	150	< 0.5	< 2	0.19	0.5	4	24	11	1.59	< 10	240	0.07	10	0.25	170
L21900E 19200W	201 202	< 5	0.6	1.17	6	180	< 0.5	< 2	0.19	2.0	4	25	13	1.31	< 10	330	0.08	10	0.19	155
L21900E 19225W	201 202	< 5	0.2	1.46	8	210	< 0.5	< 2	0.23	0.5	6	30	11	1.57	< 10	250	0.07	10	0.33	165
L21900E 19250W	201 202	< 5	< 0.2	1.09	4	210	< 0.5	< 2	0.18	< 0.5	3	20	10	1.23	< 10	140	0.06	10	0.23	95
L21900E 19275W	201 202	< 5	< 0.2	1.02	12	150	< 0.5	< 2	0.14	< 0.5	5	20	9	2.03	< 10	50	0.06	10	0.27	270
L21900E 19300W	201 202	35	< 0.2	1.24	44	420	< 0.5	< 2	0.19	< 0.5	8	20	10	2.04	< 10	140	0.05	10	0.30	280
L21900E 19325W	201 202	15	< 0.2	1.39	40	310	< 0.5	< 2	0.12	< 0.5	6	23	10	2.36	< 10	70	0.05	10	0.32	225
L21900E 19350W	201 202	< 5	< 0.2	1.28	14	270	< 0.5	< 2	0.14	< 0.5	4	21	11	2.17	< 10	70	0.05	10	0.31	150
L21900E 19375W	201 202	< 5	< 0.2	1.28	24	400	0.5	< 2	0.15	< 0.5	8	26	20	2.96	< 10	280	0.06	30	0.33	290
L21900E 19400W	201 202	< 5	< 0.2	1.69	14	390	0.5	< 2	0.22	< 0.5	11	33	16	2.66	< 10	70	0.08	20	0.51	395
L22000E 18000W	201 202	< 5	< 0.2	1.54	4	150	< 0.5	< 2	0.20	< 0.5	4	26	17	2.35	< 10	20	0.08	10	0.40	130
L22000E 18025W	201 202	< 5	< 0.2	2.00	10	200	0.5	2	0.25	< 0.5	11	30	25	2.91	< 10	20	0.09	20	0.49	330
L22000E 18050W	201 202	< 5	< 0.2	1.44	< 2	120	0.5	< 2	0.15	< 0.5	3	26	12	2.14	< 10	20	0.06	10	0.26	125
L22000E 18075W	201 202	< 5	0.2	1.92	6	160	0.5	< 2	0.26	1.5	7	31	24	2.78	< 10	50	0.09	20	0.50	265
L22000E 18100W	201 202	< 5	0.6	1.40	4	190	0.5	< 2	0.29	1.5	5	33	28	2.30	< 10	30	0.10	20	0.36	215
L22000E 18125W	201 202	< 5	1.0	1.71	10	150	0.5	< 2	0.20	1.5	5	32	19	2.30	< 10	80	0.06	10	0.35	175
L22000E 18150W	201 202	< 5	0.2	1.37	8	180	< 0.5	2	0.39	2.5	3	39	25	1.93	< 10	30	0.06	10	0.52	165
L22000E 18175W	201 202	not/see	0.8	0.68	2	300	0.5	< 2	2.67	27.0	4	12	58	0.60	< 10	40	0.03	< 10	0.22	620
L22000E 18200W	201 202	< 5	1.2	1.28	8	340	0.5	< 2	1.66	24.0	12	44	58	1.57	< 10	90	0.05	20	0.62	825
L22000E 18225W	201 202	< 5	0.8	1.28	2	310	0.5	< 2	1.44	16.5	11	40	48	1.70	< 10	110	0.05	20	0.64	710
L22000E 18250W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22000E 18275W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22000E 18300W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22000E 18325W	201 202	< 5	0.4	1.22	14	170	< 0.5	< 2	0.61	0.5	8	35	26	2.18	< 10	30	0.09	20	0.82	240
L22000E 18350W	201 202	< 5	0.8	1.11	2	220	< 0.5	< 2	0.68	1.5	5	27	19	1.31	< 10	60	0.06	10	0.38	175
L22000E 18375W	201 202	< 5	0.2	1.84	6	370	0.5	< 2	0.70	4.0	11	32	28	2.05	< 10	90	0.08	20	0.45	475
L22000E 18400W	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22000E 18425W	201 202	< 5	0.2	1.05	< 2	250	0.5	< 2	1.69	0.5	5	19	30	1.23	< 10	70	0.04	20	0.39	135
L22000E 18450W	201 202	< 25	< 0.2	1.00	2	130	< 0.5	2	0.82	< 0.5	3	22	17	1.17	< 10	40	0.04	10	0.33	80
L22000E 18475W	201 202	< 5	< 0.2	1.79	14	320	0.5	< 2	0.61	< 0.5	7	36	24	2.14	< 10	20	0.05	20	0.94	185
L22000E 18500W	201 202	< 5	0.4	2.39	16	470	0.5	< 2	0.64	< 0.5	10	64	40	2.74	< 10	60	0.06	10	1.35	200
L22000E 18525W	201 202	< 5	0.8	1.73	18	330	0.5	2	0.36	< 0.5	6	33	23	2.05	< 10	110	0.07	20	0.69	185
L22000E 18550W	201 202	< 5	0.2	1.81	12	370	0.5	< 2	0.66	< 0.5	5	32	18	1.89	< 10	80	0.07	10	1.18	170
L22000E 18575W	201 202	< 5	0.6	1.34	8	450	0.5	< 2	1.40	3.0	8	24	29	1.49	< 10	180	0.06	20	0.47	840
L22000E 18600W	201 202	< 10	< 0.2	0.33	< 2	550	< 0.5	< 2	2.03	< 0.5	2	4	11	0.41	< 10	100	0.02	< 10	0.33	20
L22000E 18625W	201 202	< 5	< 0.2	1.59	4	220	< 0.5	< 2	0.08	< 0.5	6	22	16	2.88	< 10	10	0.13	20	0.35	150
L22000E 18650W	201 202	< 5	< 0.2	1.80	2	170	< 0.5	< 2	0.10	< 0.5	6	23	9	2.59	< 10	< 10	0.06	20	0.34	230
L22000E 18675W	201 202	< 5	< 0.2	1.24	6	140	< 0.5	< 2	0.09	< 0.5	4	16	5	2.33	< 10	40	0.04	10	0.19	175
L22000E 18700W	201 202	< 5	< 0.2	1.80	16	120	< 0.5	< 2	0.07	< 0.5	7	27	13	4.64	< 10	20	0.08	10	0.37	315
L22000E 18725W	201 202	< 5	< 0.2	1.09	14	140	< 0.5	< 2	0.16	< 0.5	5	17	13	1.89	< 10	20	0.04	10	0.33	160

CERTIFICATION:

[Handwritten signature]



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
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CERTIFICATE OF ANALYSIS

A9737980

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L21900E 19175N	201 202	3 < 0.01		15	600	10	56	1	18	0.03	< 10	< 10	140	< 10	106
L21900E 19200N	201 202	3 < 0.01		13	880	16	592	< 1	19	0.03	< 10	< 10	128	< 10	84
L21900E 19225N	201 202	3 < 0.01		17	810	6	14	2	22	0.04	< 10	< 10	186	< 10	146
L21900E 19250N	201 202	< 1 < 0.01		11	520	6	< 2	1	18	0.03	< 10	< 10	66	< 10	58
L21900E 19275N	201 202	4 < 0.01		13	580	8	6	1	16	0.02	< 10	< 10	84	< 10	66
L21900E 19300N	201 202	< 1 < 0.01		15	560	12	8	3	25	0.03	< 10	< 10	38	< 10	58
L21900E 19325N	201 202	< 1 < 0.01		14	380	14	2	3	16	0.03	< 10	< 10	48	< 10	58
L21900E 19350N	201 202	< 1 < 0.01		13	400	12	< 2	3	16	0.04	< 10	< 10	46	< 10	48
L21900E 19375N	201 202	1 < 0.01		27	490	18	2	5	26	0.04	< 10	< 10	48	< 10	106
L21900E 19400N	201 202	< 1 < 0.01		20	510	8	< 2	5	23	0.08	< 10	< 10	61	< 10	60
L22000E 18000N	201 202	2 < 0.01		18	660	18	< 2	2	21	0.05	< 10	< 10	101	< 10	76
L22000E 18025N	201 202	1 < 0.01		30	730	16	< 2	4	32	0.08	< 10	< 10	75	< 10	158
L22000E 18050N	201 202	1 < 0.01		14	370	26	< 2	3	27	0.11	< 10	< 10	90	< 10	94
L22000E 18075N	201 202	1 < 0.01		27	810	44	2	3	43	0.08	< 10	< 10	86	< 10	220
L22000E 18100N	201 202	3 < 0.01		34	1010	52	< 2	1	80	0.05	< 10	< 10	174	< 10	278
L22000E 18125N	201 202	7 < 0.01		34	760	28	< 2	2	35	0.06	< 10	< 10	301	< 10	220
L22000E 18150N	201 202	4 < 0.01		51	490	16	< 2	3	45	0.09	< 10	< 10	663	< 10	506
L22000E 18175N	201 202	4 0.01		83	1350	< 2	< 2	1	162	0.01	< 10	< 10	180	< 10	428
L22000E 18200N	201 202	3 0.01		102	1620	12	< 2	4	106	0.05	< 10	10	511	< 10	1150
L22000E 18225N	201 202	3 0.01		109	1550	12	< 2	4	90	0.05	< 10	< 10	405	< 10	1120
L22000E 18250N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22000E 18275N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22000E 18300N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22000E 18325N	201 202	2 < 0.01		36	1270	10	< 2	3	43	0.08	< 10	< 10	161	< 10	226
L22000E 18350N	201 202	< 1 < 0.01		23	990	8	< 2	3	37	0.05	< 10	< 10	73	< 10	180
L22000E 18375N	201 202	3 < 0.01		43	990	14	2	3	38	0.05	< 10	< 10	146	< 10	358
L22000E 18400N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22000E 18425N	201 202	1 < 0.01		24	790	< 2	6	3	64	0.06	< 10	< 10	36	< 10	58
L22000E 18450N	201 202	1 < 0.01		13	380	4	8	3	64	0.07	< 10	< 10	47	< 10	46
L22000E 18475N	201 202	< 1 < 0.01		26	470	8	6	4	64	0.10	< 10	< 10	81	< 10	86
L22000E 18500N	201 202	1 0.01		56	970	8	20	6	50	0.12	< 10	< 10	91	< 10	166
L22000E 18525N	201 202	< 1 < 0.01		32	670	6	72	4	26	0.06	< 10	< 10	66	< 10	126
L22000E 18550N	201 202	3 < 0.01		31	660	4	36	5	27	0.06	< 10	< 10	76	< 10	126
L22000E 18575N	201 202	3 0.01		45	1090	6	68	3	45	0.02	< 10	< 10	102	< 10	322
L22000E 18600N	201 202	1 < 0.01		13	480	< 2	8	1	147	< 0.01	< 10	< 10	9	< 10	30
L22000E 18625N	201 202	< 1 < 0.01		15	320	12	8	3	17	0.03	< 10	< 10	44	< 10	58
L22000E 18650N	201 202	< 1 < 0.01		13	310	8	2	3	14	0.04	< 10	< 10	55	< 10	70
L22000E 18675N	201 202	< 1 < 0.01		7	290	8	< 2	1	10	0.05	< 10	< 10	52	< 10	34
L22000E 18700N	201 202	< 1 < 0.01		15	630	14	6	3	12	0.02	< 10	< 10	56	< 10	62
L22000E 18725N	201 202	< 1 < 0.01		15	540	6	8	1	13	0.02	< 10	< 10	28	< 10	48

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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Page: 6-A
 Total: 6
 Certificate Date: 25-AUG-97
 Invoice No.: 19737980
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS

A9737980

SAMPLE	PREP		Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	CODE		FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm
L22000E 18750W	201	202	35	< 0.2	0.96	36	180	< 0.5	< 2	0.09	< 0.5	4	15	17	1.76	< 10	40	0.06	10	0.28	95
L22000E 18775W	201	202	10	< 0.2	0.96	6	170	< 0.5	< 2	0.17	< 0.5	3	16	7	1.43	< 10	110	0.04	10	0.25	90
L22000E 18800W	201	202	< 5	< 0.2	1.19	10	130	< 0.5	< 2	0.21	< 0.5	6	21	12	1.93	< 10	70	0.05	10	0.40	190
L22000E 18825W	201	202	< 5	< 0.2	1.47	6	190	< 0.5	< 2	0.19	< 0.5	6	24	17	1.98	< 10	110	0.06	10	0.37	175
L22000E 18850W	201	202	< 5	< 0.2	1.37	12	180	< 0.5	< 2	0.17	< 0.5	4	22	16	1.86	< 10	120	0.05	10	0.34	100
L22000E 18875W	201	202	< 5	< 0.2	1.34	4	170	< 0.5	2	0.23	< 0.5	5	22	15	1.78	< 10	100	0.05	10	0.37	120
L22000E 18900W	201	202	< 5	0.2	1.25	< 2	140	< 0.5	< 2	0.13	< 0.5	4	21	13	1.56	< 10	110	0.05	10	0.27	115
L22000E 18925W	201	202	< 5	< 0.2	1.44	8	170	< 0.5	< 2	0.16	< 0.5	5	23	17	1.70	< 10	90	0.06	10	0.34	100
L22000E 18950W	201	202	< 5	0.6	1.08	< 2	410	< 0.5	< 2	0.32	< 0.5	3	18	20	1.27	< 10	200	0.07	10	0.19	75
L22000E 18975W	201	202	< 5	< 0.2	1.05	12	180	< 0.5	< 2	0.12	< 0.5	5	20	20	1.85	< 10	60	0.07	20	0.30	140
L22000E 19000W	201	202	< 5	< 0.2	1.38	6	230	< 0.5	< 2	0.11	< 0.5	8	22	18	1.89	< 10	80	0.06	10	0.29	335
L22000E 19025W	201	202	< 5	< 0.2	2.79	8	200	0.5	< 2	0.10	< 0.5	11	36	21	3.22	< 10	50	0.06	10	0.41	310
L22000E 19050W	201	202	< 5	< 0.2	2.31	12	110	0.5	< 2	0.09	< 0.5	7	29	13	3.54	< 10	40	0.06	10	0.39	370
L22000E 19075W	201	202	< 5	< 0.2	1.00	2	90	< 0.5	< 2	0.04	< 0.5	1	11	6	1.57	< 10	< 10	0.04	10	0.08	95
L22000E 19100W	201	202	< 5	< 0.2	1.30	6	200	0.5	< 2	0.03	< 0.5	9	12	29	3.46	< 10	20	0.12	20	0.16	165
L22000E 19125W	201	202	< 5	< 0.2	1.33	6	150	< 0.5	< 2	0.04	< 0.5	5	15	17	2.91	< 10	10	0.10	20	0.15	170
L22000E 19150W	201	202	< 5	< 0.2	0.96	6	120	< 0.5	< 2	0.03	< 0.5	4	12	16	2.39	< 10	30	0.09	10	0.10	105
L22000E 19175W	201	202	< 5	< 0.2	1.10	< 2	220	< 0.5	2	0.06	< 0.5	5	13	17	1.95	< 10	60	0.10	20	0.13	110
L22000E 19200W	201	202	< 5	< 0.2	1.43	4	280	< 0.5	< 2	0.13	< 0.5	9	20	10	1.77	< 10	160	0.07	10	0.28	390
L22000E 19225W	201	202	< 5	0.2	1.35	6	250	< 0.5	< 2	0.14	< 0.5	7	20	12	2.12	< 10	330	0.08	10	0.23	310
L22000E 19250W	201	202	< 5	0.2	1.47	8	380	< 0.5	< 2	0.22	0.5	13	21	12	1.89	< 10	220	0.06	10	0.30	525
L22000E 19275W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22000E 19300W	201	202	< 5	< 0.2	0.66	238	360	0.5	2	0.11	< 0.5	7	14	16	3.36	< 10	130	0.08	40	0.09	330

CERTIFICATION: _____



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Page 1 : 6-B
 Total : 6
 Certificate Date: 25-AUG-97
 Invoice No. : 19737980
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9737980

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L22000E 18750N	201	202	< 1	< 0.01	13	450	8	44	1	18	0.01	< 10	< 10	25	< 10	50
L22000E 18775N	201	202	< 1	< 0.01	10	570	8	14	< 1	15	0.01	< 10	< 10	39	< 10	56
L22000E 18800N	201	202	< 1	< 0.01	16	730	6	28	2	17	0.03	< 10	< 10	48	< 10	78
L22000E 18825N	201	202	1	< 0.01	18	700	8	20	3	18	0.03	< 10	< 10	57	< 10	78
L22000E 18850N	201	202	< 1	< 0.01	14	720	6	12	1	15	0.02	< 10	< 10	48	< 10	60
L22000E 18875N	201	202	< 1	< 0.01	16	640	8	16	1	19	0.03	< 10	< 10	44	< 10	68
L22000E 18900N	201	202	< 1	< 0.01	12	770	8	22	< 1	13	0.01	< 10	< 10	34	< 10	56
L22000E 18925N	201	202	< 1	< 0.01	15	560	10	10	1	15	0.03	< 10	< 10	37	< 10	64
L22000E 18950N	201	202	< 1	0.01	14	1050	8	6	< 1	34	0.01	< 10	< 10	24	< 10	38
L22000E 18975N	201	202	1	< 0.01	19	420	10	14	2	15	0.03	< 10	< 10	38	< 10	72
L22000E 19000N	201	202	< 1	< 0.01	15	580	12	6	1	14	0.01	< 10	< 10	37	< 10	54
L22000E 19025N	201	202	< 1	< 0.01	23	340	12	< 2	4	10	0.04	< 10	< 10	46	< 10	66
L22000E 19050N	201	202	1	< 0.01	15	480	12	< 2	3	10	0.03	< 10	< 10	49	< 10	66
L22000E 19075N	201	202	1	< 0.01	4	140	8	< 2	1	7	0.03	< 10	< 10	47	< 10	22
L22000E 19100N	201	202	1	< 0.01	21	440	22	< 2	3	23	< 0.01	< 10	< 10	25	< 10	86
L22000E 19125N	201	202	1	< 0.01	13	390	18	< 2	1	14	< 0.01	< 10	< 10	41	< 10	60
L22000E 19150N	201	202	1	< 0.01	11	470	14	< 2	1	12	< 0.01	< 10	< 10	38	< 10	52
L22000E 19175N	201	202	1	< 0.01	13	440	14	6	1	17	< 0.01	< 10	< 10	37	< 10	58
L22000E 19200N	201	202	1	< 0.01	14	460	10	22	2	14	0.01	< 10	< 10	47	< 10	74
L22000E 19225N	201	202	1	< 0.01	12	980	8	36	2	14	0.01	< 10	< 10	47	< 10	64
L22000E 19250N	201	202	1	< 0.01	16	730	10	30	3	20	0.01	< 10	< 10	56	< 10	106
L22000E 19275N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22000E 19300N	201	202	1	< 0.01	17	490	42	28	3	38	0.01	< 10	< 10	45	< 10	156

CERTIFICATION: _____



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Page : 1-A
 Total : 5
 Certificate No.: 23-AUG-97
 Invoice No.: 19737981
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9737981

SAMPLE	PREP		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	CODE		FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L22500E 18000N	201	202	130	10.00	0.8	1.27	196	410	0.5	< 2	2.22	2.0	8	30	29	1.91	< 10	140	0.06	20	0.70
L22500E 18025N	201	202	575	30.00	3.2	1.14	1505	610	1.0	< 2	1.43	1.5	12	22	50	2.91	< 10	410	0.11	30	0.38
L22500E 18050N	201	202	85	10.00	1.8	0.71	702	320	< 0.5	< 2	0.08	< 0.5	3	8	19	2.86	< 10	30	0.20	20	0.08
L22500E 18075N	201	202	200	30.00	0.8	1.01	1995	200	0.5	< 2	0.28	1.5	11	27	21	3.87	< 10	70	0.08	30	0.38
L22500E 18100N	201	202	180	10.00	1.6	0.70	1115	390	< 0.5	< 2	0.17	0.5	4	11	27	3.44	< 10	50	0.21	10	0.13
L22500E 18125N	201	202	20	30.00	< 0.2	1.18	56	210	< 0.5	< 2	0.12	< 0.5	9	17	19	2.48	< 10	10	0.11	10	0.36
L22500E 18150N	201	202	10	30.00	< 0.2	1.57	38	230	0.5	< 2	0.10	< 0.5	20	32	31	3.91	< 10	10	0.12	10	0.47
L22500E 18175N	201	202	< 5	10.00	< 0.2	1.29	40	140	< 0.5	< 2	0.06	< 0.5	6	16	15	2.76	< 10	40	0.08	10	0.20
L22500E 18200N	201	202	< 5	10.00	< 0.2	0.66	8	120	< 0.5	< 2	0.06	< 0.5	2	11	21	1.69	< 10	60	0.06	10	0.07
L22500E 18225N	201	202	50	30.00	0.4	1.20	108	250	< 0.5	< 2	0.65	0.5	8	26	20	1.95	< 10	70	0.08	10	0.74
L22500E 18250N	201	202	< 5	30.00	< 0.2	1.45	26	310	0.5	< 2	0.19	< 0.5	15	20	43	3.35	< 10	20	0.19	30	0.45
L22500E 18275N	201	202	< 5	30.00	< 0.2	1.38	24	280	0.5	< 2	0.20	< 0.5	13	20	42	3.32	< 10	10	0.15	30	0.46
L22500E 18300N	201	202	< 5	30.00	0.2	1.41	< 2	200	< 0.5	< 2	0.12	< 0.5	7	22	22	1.75	< 10	70	0.07	10	0.40
L22500E 18325N	201	202	< 5	30.00	< 0.2	1.14	8	170	< 0.5	< 2	0.16	< 0.5	9	18	24	2.52	< 10	10	0.09	10	0.38
L22500E 18350N	201	202	< 5	10.00	< 0.2	1.59	22	190	0.5	< 2	0.05	< 0.5	12	21	30	3.91	< 10	10	0.16	30	0.43
L22500E 18375N	201	202	< 5	30.00	< 0.2	1.62	2	190	< 0.5	< 2	0.04	< 0.5	5	18	18	2.73	< 10	20	0.08	20	0.23
L22500E 18400N	201	202	< 5	30.00	0.2	1.18	< 2	220	< 0.5	< 2	0.05	< 0.5	4	14	9	1.92	< 10	10	0.10	30	0.14
L22500E 18425N	201	202	< 5	10.00	0.4	1.18	< 2	360	< 0.5	< 2	0.19	< 0.5	8	17	17	2.53	< 10	60	0.14	10	0.22
L22500E 18450N	201	202	< 5	30.00	0.4	1.20	2	240	< 0.5	< 2	0.05	< 0.5	8	15	15	2.52	< 10	20	0.09	10	0.17
L22500E 18475N	201	202	< 5	10.00	0.2	1.21	2	310	< 0.5	< 2	0.04	< 0.5	7	15	18	2.74	< 10	30	0.11	10	0.20
L22500E 18500N	201	202	< 5	30.00	< 0.2	1.08	4	160	< 0.5	< 2	0.08	< 0.5	5	15	9	2.40	< 10	< 10	0.07	10	0.16
L22500E 18525N	201	202	< 5	30.00	0.4	1.32	2	400	< 0.5	< 2	0.10	< 0.5	18	17	10	2.47	< 10	20	0.14	20	0.18
L22500E 18550N	201	202	< 5	10.00	0.2	1.79	< 2	410	< 0.5	< 2	0.08	< 0.5	21	21	14	2.96	< 10	20	0.13	30	0.25
L22500E 18575N	201	202	< 5	10.00	0.4	1.83	< 2	420	< 0.5	< 2	0.14	< 0.5	9	22	14	2.79	< 10	40	0.13	20	0.27
L22500E 18600N	201	202	< 5	30.00	0.2	1.93	4	360	< 0.5	< 2	0.07	< 0.5	9	22	18	3.08	< 10	20	0.12	20	0.33
L22500E 18625N	201	202	< 5	10.00	0.6	2.57	2	470	0.5	< 2	0.10	< 0.5	27	32	20	4.10	< 10	30	0.11	20	0.43
L22500E 18650N	201	202	< 5	30.00	< 0.2	2.41	8	280	< 0.5	< 2	0.06	< 0.5	7	28	14	3.23	< 10	< 10	0.06	20	0.35
L22500E 18675N	201	202	< 5	10.00	< 0.2	1.99	6	260	0.5	< 2	0.05	< 0.5	11	24	22	3.70	< 10	30	0.10	20	0.32
L22500E 18700N	201	202	< 5	30.00	< 0.2	1.68	8	120	< 0.5	< 2	0.09	< 0.5	5	24	7	3.43	< 10	< 10	0.04	10	0.32
L22500E 18725N	201	202	5	30.00	< 0.2	1.53	6	110	< 0.5	< 2	0.14	< 0.5	7	23	12	2.64	< 10	10	0.03	10	0.37
L22500E 18750N	201	202	< 5	30.00	< 0.2	1.52	6	340	< 0.5	< 2	0.26	< 0.5	13	29	28	2.80	< 10	20	0.07	10	0.57
L22500E 18775N	201	202	< 5	30.00	< 0.2	1.45	8	290	< 0.5	< 2	0.22	< 0.5	8	24	19	2.22	< 10	30	0.06	10	0.42
L22500E 18800N	201	202	< 5	30.00	< 0.2	1.33	10	400	< 0.5	< 2	0.36	0.5	9	29	29	2.66	< 10	20	0.06	10	0.53
L22500E 18825N	201	202	< 5	30.00	< 0.2	1.36	6	350	< 0.5	< 2	0.37	< 0.5	10	28	25	2.57	< 10	20	0.05	10	0.54
L22500E 18850N	201	202	10	30.00	< 0.2	1.26	14	280	< 0.5	< 2	0.50	0.5	7	23	12	2.29	< 10	40	0.05	10	0.49
L22500E 18875N	201	202	10	30.00	0.4	1.31	44	430	< 0.5	< 2	0.63	2.5	14	23	17	2.88	< 10	50	0.05	10	0.48
L22500E 18900N	201	202	5	30.00	0.6	1.10	14	620	< 0.5	< 2	0.71	2.0	14	19	24	2.13	< 10	140	0.08	10	0.37
L22500E 18925N	201	202	< 5	30.00	< 0.2	1.37	8	280	< 0.5	< 2	0.20	0.5	9	22	18	2.80	< 10	10	0.07	10	0.46
L22500E 18950N	201	202	< 5	10.00	0.2	1.82	12	450	0.5	< 2	0.06	0.5	16	26	18	3.48	< 10	10	0.08	10	0.41
L22500E 18975N	201	202	< 5	10.00	0.2	1.67	66	300	1.5	2	0.03	< 0.5	22	19	28	6.58	< 10	10	0.07	30	0.20

CERTIFICATION: Robert Powell



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN: RICK DIMENT

Page : 1-B
 Total : 5
 Certif. : 23-AUG-97
 Invoice No. : 19737981
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9737981

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L22500E 18000N	201 202	800	3 < 0.01		28	950	12	198	4	87	0.03	< 10	< 10	64	< 10	126
L22500E 18025N	201 202	1640	2 < 0.01		36	1260	24	774	6	86	< 0.01	< 10	< 10	28	< 10	128
L22500E 18050N	201 202	90	2 < 0.01		9	460	62	506	1	72	< 0.01	< 10	< 10	22	< 10	58
L22500E 18075N	201 202	690	3 < 0.01		26	740	40	1580	4	24	0.01	< 10	< 10	43	< 10	166
L22500E 18100N	201 202	200	3 0.01		12	970	26	126	1	56	< 0.01	< 10	< 10	19	< 10	82
L22500E 18125N	201 202	215	< 1 < 0.01		22	390	16	18	2	30	< 0.01	< 10	< 10	21	< 10	78
L22500E 18150N	201 202	635	< 1 < 0.01		31	590	24	10	3	39	0.01	< 10	< 10	33	< 10	112
L22500E 18175N	201 202	210	< 1 < 0.01		14	490	18	18	1	16	0.01	< 10	< 10	31	< 10	52
L22500E 18200N	201 202	65	< 1 < 0.01		7	520	8	8	1	12	0.01	< 10	< 10	25	< 10	32
L22500E 18225N	201 202	485	< 1 < 0.01		26	770	8	164	3	37	0.03	< 10	< 10	42	< 10	118
L22500E 18250N	201 202	680	2 0.01		34	580	20	34	3	56	< 0.01	< 10	< 10	27	< 10	122
L22500E 18275N	201 202	550	1 0.01		35	540	18	36	3	65	0.01	< 10	< 10	27	< 10	122
L22500E 18300N	201 202	100	< 1 < 0.01		18	390	14	< 2	3	18	0.01	< 10	< 10	22	< 10	68
L22500E 18325N	201 202	180	< 1 < 0.01		22	390	12	2	2	22	0.03	< 10	< 10	26	< 10	88
L22500E 18350N	201 202	320	1 < 0.01		25	570	24	2	3	18	< 0.01	< 10	< 10	30	< 10	100
L22500E 18375N	201 202	115	1 < 0.01		13	480	14	< 2	1	20	0.01	< 10	< 10	39	< 10	58
L22500E 18400N	201 202	145	< 1 < 0.01		8	420	14	2	1	10	0.01	< 10	< 10	33	< 10	42
L22500E 18425N	201 202	415	< 1 < 0.01		14	630	16	< 2	1	25	0.01	< 10	< 10	34	< 10	80
L22500E 18450N	201 202	245	1 < 0.01		14	400	14	< 2	1	14	0.01	< 10	< 10	33	< 10	78
L22500E 18475N	201 202	240	< 1 < 0.01		13	490	16	2	1	12	< 0.01	< 10	< 10	31	< 10	74
L22500E 18500N	201 202	175	< 1 < 0.01		9	360	12	< 2	1	12	0.03	< 10	< 10	40	< 10	56
L22500E 18525N	201 202	1180	< 1 < 0.01		10	420	18	< 2	1	17	0.01	< 10	< 10	37	< 10	100
L22500E 18550N	201 202	1050	< 1 < 0.01		15	510	16	< 2	3	15	0.01	< 10	< 10	43	< 10	96
L22500E 18575N	201 202	510	< 1 0.01		14	560	16	< 2	2	20	0.01	< 10	< 10	42	< 10	98
L22500E 18600N	201 202	275	< 1 < 0.01		16	430	14	< 2	3	19	0.01	< 10	< 10	38	< 10	90
L22500E 18625N	201 202	860	1 < 0.01		25	530	24	< 2	3	20	0.01	< 10	< 10	49	< 10	172
L22500E 18650N	201 202	160	1 < 0.01		15	270	14	< 2	3	14	0.01	< 10	< 10	46	< 10	68
L22500E 18675N	201 202	240	2 < 0.01		19	500	20	< 2	3	18	0.01	< 10	< 10	43	< 10	96
L22500E 18700N	201 202	170	< 1 0.01		12	220	14	< 2	2	12	0.05	< 10	< 10	51	< 10	54
L22500E 18725N	201 202	195	1 < 0.01		16	440	12	< 2	2	12	0.03	< 10	< 10	33	< 10	52
L22500E 18750N	201 202	395	< 1 < 0.01		25	580	16	< 2	4	26	0.05	< 10	< 10	38	< 10	92
L22500E 18775N	201 202	230	< 1 < 0.01		19	510	12	< 2	2	19	0.03	< 10	< 10	35	< 10	68
L22500E 18800N	201 202	335	< 1 < 0.01		27	750	10	< 2	4	27	0.06	< 10	< 10	41	< 10	86
L22500E 18825N	201 202	345	1 < 0.01		24	720	10	< 2	4	29	0.06	< 10	< 10	39	< 10	84
L22500E 18850N	201 202	365	< 1 < 0.01		23	810	8	18	3	33	0.03	< 10	< 10	41	< 10	130
L22500E 18875N	201 202	2230	3 < 0.01		38	790	12	44	3	43	0.01	< 10	< 10	61	< 10	216
L22500E 18900N	201 202	910	1 < 0.01		27	530	16	12	4	122	< 0.01	< 10	< 10	38	< 10	120
L22500E 18925N	201 202	195	< 1 < 0.01		29	170	12	< 2	3	50	< 0.01	< 10	< 10	37	< 10	106
L22500E 18950N	201 202	620	1 < 0.01		32	330	14	2	3	35	< 0.01	< 10	< 10	48	< 10	154
L22500E 18975N	201 202	380	2 < 0.01		49	490	34	6	6	48	< 0.01	< 10	< 10	36	< 10	254

CERTIFICATION: _____



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SAMPLE	PREP CODE	Au ppb fusion FA+AA wt. gm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	
L22500E 19000W	201 202	< 5 30.00	< 0.2	1.01	6	220	< 0.5	< 2	0.15	< 0.5	5	17	6	2.49	< 10	40	0.05	10	0.22	
L22500E 19025W	201 202	< 5 30.00	< 0.2	1.41	6	140	< 0.5	< 2	0.08	< 0.5	6	21	5	2.85	< 10	10	0.03	10	0.30	
L22500E 19050W	201 202	< 5 10.00	0.2	0.44	< 2	150	< 0.5	< 2	0.31	0.5	2	9	14	0.75	< 10	120	0.04	< 10	0.05	
L22500E 19075W	201 202	< 5 10.00	< 0.2	0.74	8	180	0.5	< 2	0.16	< 0.5	4	15	12	1.50	< 10	100	0.05	10	0.07	
L22500E 19100W	201 202	< 5 10.00	< 0.2	1.14	8	430	0.5	< 2	0.29	< 0.5	9	21	21	2.52	< 10	150	0.08	20	0.16	
L22500E 19125W	201 202	< 5 30.00	< 0.2	1.41	24	410	0.5	< 2	0.26	0.5	12	27	22	3.01	< 10	40	0.08	10	0.37	
L22500E 19150W	201 202	< 5 30.00	0.2	1.45	14	310	0.5	< 2	0.32	0.5	17	53	22	3.57	< 10	30	0.09	10	0.52	
L22500E 19175W	201 202	< 5 30.00	< 0.2	1.38	46	210	< 0.5	< 2	0.19	< 0.5	13	38	12	3.39	< 10	30	0.07	10	0.41	
L22500E 19200W	201 202	< 5 30.00	0.2	1.33	32	290	0.5	< 2	0.16	< 0.5	14	36	15	3.31	< 10	50	0.07	10	0.36	
L22500E 19225W	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	
L22500E 19250W	201 202	< 5 10.00	0.2	1.00	< 2	690	0.5	< 2	0.57	0.5	6	29	18	1.89	< 10	150	0.07	40	0.29	
L22500E 19275W	201 202	not/ss	not/ss	0.2	0.41	< 2	630	< 0.5	< 2	0.46	0.5	3	7	7	1.36	< 10	110	0.03	< 10	0.09
L22500E 19300W	201 202	< 5 30.00	< 0.2	1.01	6	320	< 0.5	< 2	0.28	< 0.5	4	28	8	1.66	< 10	70	0.05	10	0.35	
L22500E 19325W	201 202	< 5 30.00	0.2	1.32	6	440	0.5	< 2	0.46	< 0.5	12	33	14	2.77	< 10	120	0.05	10	0.46	
L22500E 19350W	201 202	< 5 30.00	< 0.2	1.37	10	420	< 0.5	< 2	0.24	< 0.5	6	33	12	2.68	< 10	70	0.05	10	0.45	
L22500E 19375W	201 202	< 5 30.00	0.2	1.15	8	970	< 0.5	< 2	0.31	0.5	9	25	14	2.55	< 10	120	0.06	10	0.43	
L22500E 19400W	201 202	< 5 30.00	0.2	1.43	6	1400	< 0.5	< 2	0.27	0.5	6	28	13	1.88	< 10	160	0.06	10	0.43	
L22600E 18000W	201 202	20 10.00	0.2	0.53	20	300	0.5	< 2	1.28	0.5	11	5	60	1.76	< 10	250	0.01	20	0.10	
L22600E 18025W	201 202	< 5 10.00	0.8	0.87	2	350	< 0.5	< 2	0.80	0.5	4	12	20	1.29	< 10	450	0.05	< 10	0.16	
L22600E 18050W	201 202	10 30.00	0.4	1.48	42	550	0.5	< 2	0.62	2.5	15	22	29	2.30	< 10	160	0.07	10	0.46	
L22600E 18075W	201 202	30 30.00	0.2	1.12	74	310	0.5	4	0.09	0.5	7	18	29	3.36	< 10	70	0.13	10	0.36	
L22600E 18100W	201 202	< 5 30.00	< 0.2	1.36	20	190	< 0.5	< 2	0.10	< 0.5	6	23	14	2.53	< 10	20	0.04	< 10	0.41	
L22600E 18125W	201 202	10 30.00	< 0.2	1.31	36	190	< 0.5	< 2	0.16	< 0.5	7	23	20	2.24	< 10	50	0.05	10	0.43	
L22600E 18150W	201 202	15 30.00	1.0	1.40	68	580	0.5	2	0.31	2.5	45	19	41	2.81	< 10	70	0.09	10	0.27	
L22600E 18175W	201 202	10 30.00	0.4	1.61	46	450	0.5	< 2	0.36	1.5	13	26	27	2.81	< 10	80	0.07	10	0.48	
L22600E 18200W	201 202	< 5 30.00	< 0.2	1.49	42	250	< 0.5	< 2	0.14	< 0.5	7	24	19	2.57	< 10	10	0.08	10	0.48	
L22600E 18225W	201 202	< 5 30.00	0.2	0.98	26	270	< 0.5	< 2	0.08	< 0.5	3	13	13	1.90	< 10	10	0.13	10	0.19	
L22600E 18250W	201 202	< 5 30.00	0.2	1.04	14	290	< 0.5	< 2	0.11	0.5	5	16	18	2.66	< 10	10	0.13	10	0.24	
L22600E 18275W	201 202	< 5 30.00	0.2	1.43	20	380	0.5	< 2	0.12	1.5	12	20	19	2.70	< 10	10	0.12	10	0.33	
L22600E 18300W	201 202	< 5 30.00	0.2	1.52	20	430	0.5	< 2	0.08	1.0	7	22	30	3.28	< 10	10	0.11	20	0.36	
L22600E 18325W	201 202	< 5 30.00	0.6	1.38	6	380	< 0.5	< 2	0.12	0.5	7	20	11	2.42	< 10	30	0.11	10	0.29	
L22600E 18350W	201 202	< 5 30.00	0.8	1.30	6	480	0.5	< 2	0.18	0.5	10	17	18	2.75	< 10	30	0.12	10	0.26	
L22600E 18375W	201 202	< 5 30.00	0.2	1.53	4	250	0.5	< 2	0.08	0.5	9	19	14	2.71	< 10	10	0.10	10	0.27	
L22600E 18400W	201 202	< 5 30.00	< 0.2	1.18	4	150	< 0.5	< 2	0.07	< 0.5	5	17	8	2.31	< 10	10	0.06	< 10	0.27	
L22600E 18425W	201 202	< 5 30.00	0.2	1.25	4	170	< 0.5	< 2	0.06	< 0.5	7	17	12	2.44	< 10	10	0.05	< 10	0.25	
L22600E 18450W	201 202	< 5 30.00	< 0.2	1.07	< 2	280	< 0.5	< 2	0.08	< 0.5	5	12	10	2.18	< 10	10	0.06	10	0.18	
L22600E 18475W	201 202	< 5 30.00	0.4	1.12	2	240	< 0.5	< 2	0.05	< 0.5	7	14	12	2.37	< 10	10	0.05	10	0.20	
L22600E 18500W	201 202	< 5 30.00	< 0.2	1.25	10	180	< 0.5	< 2	0.05	< 0.5	7	15	15	2.51	< 10	10	0.06	10	0.26	
L22600E 18525W	201 202	< 5 30.00	< 0.2	1.22	8	140	< 0.5	< 2	0.04	< 0.5	4	16	7	1.93	< 10	20	0.03	< 10	0.24	
L22600E 18550W	201 202	< 5 30.00	< 0.2	1.18	6	200	< 0.5	< 2	0.09	< 0.5	6	17	18	1.98	< 10	40	0.06	10	0.25	

CERTIFICATION:



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SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L22500E 19000N	201	202	345	1 < 0.01	10	340	12	< 2	1	23	0.03	< 10	< 10	47	< 10	50	
L22500E 19025N	201	202	275	< 1 < 0.01	11	330	12	< 2	2	12	0.03	< 10	< 10	47	< 10	50	
L22500E 19050N	201	202	70	< 1 < 0.01	7	920	16	< 2	< 1	27	< 0.01	< 10	< 10	15	< 10	34	
L22500E 19075N	201	202	205	1 < 0.01	8	1310	16	< 2	< 1	20	< 0.01	< 10	< 10	22	< 10	38	
L22500E 19100N	201	202	560	1 < 0.01	16	1100	24	< 2	4	39	< 0.01	< 10	< 10	32	< 10	62	
L22500E 19125N	201	202	365	1 < 0.01	32	570	18	< 2	4	46	0.01	< 10	< 10	40	< 10	118	
L22500E 19150N	201	202	940	1 < 0.01	29	920	18	< 2	7	46	0.04	< 10	< 10	62	< 10	130	
L22500E 19175N	201	202	665	1 < 0.01	23	720	26	< 2	2	40	0.02	< 10	< 10	56	< 10	106	
L22500E 19200N	201	202	600	1 < 0.01	23	750	22	< 2	4	43	0.01	< 10	< 10	50	< 10	104	
L22500E 19225N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	
L22500E 19250N	201	202	345	1 < 0.01	16	1240	20	< 2	8	84	0.02	< 10	< 10	33	< 10	62	
L22500E 19275N	201	202	125	< 1 < 0.01	8	930	8	< 2	3	55	0.01	< 10	< 10	8	< 10	32	
L22500E 19300N	201	202	90	< 1 < 0.01	12	730	16	< 2	3	43	0.03	< 10	< 10	35	< 10	60	
L22500E 19325N	201	202	660	1 < 0.01	18	950	18	< 2	5	53	0.03	< 10	< 10	45	< 10	80	
L22500E 19350N	201	202	165	1 < 0.01	17	760	18	< 2	4	27	0.03	< 10	< 10	47	< 10	86	
L22500E 19375N	201	202	340	2 < 0.01	21	780	14	< 2	3	55	0.04	< 10	< 10	48	< 10	90	
L22500E 19400N	201	202	140	1 < 0.01	18	680	16	< 2	3	53	0.04	< 10	< 10	48	< 10	88	
L22600E 18000N	201	202	55	< 1 < 0.01	86	1070	6	2	2	119	0.01	< 10	< 10	8	< 10	34	
L22600E 18025N	201	202	25	1 < 0.01	20	1400	8	8	1	102	0.01	< 10	< 10	11	< 10	36	
L22600E 18050N	201	202	845	1 < 0.01	72	840	14	20	3	89	0.02	< 10	< 10	43	< 10	166	
L22600E 18075N	201	202	200	2 < 0.01	19	610	24	6	2	45	0.01	< 10	< 10	48	< 10	74	
L22600E 18100N	201	202	155	< 1 < 0.01	14	420	12	< 2	2	15	0.02	< 10	< 10	40	< 10	52	
L22600E 18125N	201	202	200	1 < 0.01	18	620	10	< 2	2	19	0.03	< 10	< 10	37	< 10	58	
L22600E 18150N	201	202	2130	1 < 0.01	42	870	26	8	2	49	0.01	< 10	< 10	36	< 10	84	
L22600E 18175N	201	202	1435	1 < 0.01	33	710	16	18	4	47	0.02	< 10	< 10	53	< 10	142	
L22600E 18200N	201	202	165	< 1 < 0.01	19	300	10	< 2	3	19	0.03	< 10	< 10	36	< 10	54	
L22600E 18225N	201	202	80	3 < 0.01	8	290	12	2	1	20	0.01	< 10	< 10	27	< 10	38	
L22600E 18250N	201	202	160	1 < 0.01	12	630	12	2	1	24	0.03	< 10	< 10	37	< 10	58	
L22600E 18275N	201	202	350	1 < 0.01	17	570	18	2	2	21	0.03	< 10	< 10	39	< 10	74	
L22600E 18300N	201	202	505	1 < 0.01	18	610	118	8	2	19	0.01	< 10	< 10	32	< 10	110	
L22600E 18325N	201	202	400	< 1 < 0.01	13	410	14	< 2	2	17	0.03	< 10	< 10	37	< 10	80	
L22600E 18350N	201	202	800	< 1 < 0.01	21	570	42	2	2	30	0.01	< 10	< 10	30	< 10	124	
L22600E 18375N	201	202	440	< 1 < 0.01	16	540	30	< 2	2	15	0.01	< 10	< 10	34	< 10	112	
L22600E 18400N	201	202	155	< 1 < 0.01	10	590	12	< 2	1	13	0.02	< 10	< 10	35	< 10	48	
L22600E 18425N	201	202	285	1 < 0.01	13	420	12	< 2	1	11	0.01	< 10	< 10	31	< 10	58	
L22600E 18450N	201	202	145	< 1 < 0.01	10	300	10	< 2	1	9	0.01	< 10	< 10	32	< 10	56	
L22600E 18475N	201	202	225	1 < 0.01	11	270	12	< 2	1	15	0.01	< 10	< 10	33	< 10	62	
L22600E 18500N	201	202	180	< 1 < 0.01	15	300	12	< 2	1	21	< 0.01	< 10	< 10	31	< 10	58	
L22600E 18525N	201	202	120	1 < 0.01	9	190	8	< 2	1	7	0.01	< 10	< 10	32	< 10	36	
L22600E 18550N	201	202	180	1 < 0.01	14	670	12	2	< 1	15	< 0.01	< 10	< 10	26	< 10	60	

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SAMPLE	PREP		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	CODE		FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L22600E 18575N	201	202	10	30.00	< 0.2	1.21	16	350	< 0.5	< 2	0.24	0.5	9	22	24	2.75	< 10	80	0.07	10	0.40
L22600E 18600N	201	202	10	30.00	< 0.2	1.21	10	380	< 0.5	< 2	0.24	0.5	7	22	24	2.09	< 10	100	0.07	10	0.40
L22600E 18625N	201	202	< 5	10.00	< 0.2	1.12	18	430	< 0.5	< 2	1.12	3.0	14	21	23	2.79	< 10	160	0.06	10	0.43
L22600E 18650N	201	202	10	30.00	0.2	1.61	16	430	0.5	< 2	0.30	1.5	7	26	22	2.06	< 10	80	0.06	10	0.48
L22600E 18675N	201	202	15	30.00	0.2	1.68	12	730	< 0.5	< 2	0.38	1.5	9	28	20	2.55	< 10	130	0.08	10	0.52
L22600E 18700N	201	202	< 5	30.00	0.2	1.36	< 2	270	< 0.5	< 2	0.05	0.5	8	16	21	2.99	< 10	30	0.08	10	0.17
L22600E 18725N	201	202	< 5	30.00	< 0.2	1.14	6	170	< 0.5	< 2	0.04	< 0.5	6	16	14	2.42	< 10	10	0.06	10	0.25
L22600E 18750N	201	202	< 5	30.00	< 0.2	1.06	2	200	< 0.5	< 2	0.06	< 0.5	5	15	15	2.06	< 10	30	0.05	10	0.21
L22600E 18775N	201	202	< 5	30.00	< 0.2	1.23	8	220	< 0.5	< 2	0.19	< 0.5	7	23	18	2.12	< 10	30	0.04	10	0.42
L22600E 18800N	201	202	< 5	30.00	< 0.2	0.75	12	280	< 0.5	< 2	0.10	< 0.5	5	14	20	1.80	< 10	30	0.04	10	0.23
L22600E 18825N	201	202	5	30.00	< 0.2	1.21	2	270	< 0.5	< 2	0.23	< 0.5	7	22	18	1.91	< 10	30	0.04	10	0.42
L22600E 18850N	201	202	10	30.00	< 0.2	1.30	8	320	< 0.5	< 2	0.32	0.5	7	26	22	2.15	< 10	20	0.05	10	0.48
L22600E 18875N	201	202	15	30.00	0.2	1.65	22	450	0.5	< 2	0.70	3.5	13	29	28	2.54	< 10	80	0.06	10	0.56
L22600E 18900N	201	202	10	30.00	0.2	1.48	68	510	0.5	< 2	0.65	3.0	15	26	22	3.37	< 10	60	0.05	10	0.50
L22600E 18925N	201	202	< 5	15.00	0.2	0.45	24	1240	< 0.5	< 2	1.61	2.5	46	5	< 1	12.25	< 10	50	0.01	< 10	0.16
L22600E 18950N	201	202	< 5	30.00	< 0.2	1.49	14	480	0.5	< 2	0.14	< 0.5	15	28	31	4.23	< 10	10	0.12	20	0.45
L22600E 18975N	201	202	< 5	30.00	< 0.2	0.74	20	820	0.5	< 2	0.13	1.0	11	21	33	3.52	< 10	< 10	0.10	40	0.10
L22600E 19000N	201	202	< 5	30.00	< 0.2	1.19	4	130	< 0.5	< 2	0.08	< 0.5	5	21	4	2.69	< 10	10	0.02	10	0.19
L22600E 19025N	201	202	< 5	30.00	< 0.2	0.98	6	150	< 0.5	< 2	0.13	< 0.5	6	28	10	2.52	< 10	10	0.06	10	0.26
L22600E 19050N	201	202	10	30.00	< 0.2	1.02	12	240	< 0.5	< 2	0.35	< 0.5	7	32	11	2.39	< 10	10	0.05	10	0.35
L22600E 19075N	201	202	< 5	30.00	0.2	0.85	4	400	< 0.5	< 2	0.22	< 0.5	11	22	18	2.61	< 10	60	0.07	10	0.19
L22600E 19100N	201	202	< 5	30.00	< 0.2	1.25	4	400	< 0.5	< 2	0.19	< 0.5	5	24	13	2.52	< 10	60	0.07	10	0.32
L22600E 19125N	201	202	< 5	30.00	< 0.2	1.19	14	800	0.5	< 2	0.10	< 0.5	14	28	23	3.43	< 10	60	0.07	30	0.28
L22600E 19150N	201	202	< 5	30.00	0.6	0.84	8	960	< 0.5	< 2	0.12	< 0.5	3	14	17	1.49	< 10	140	0.07	20	0.14
L22600E 19175N	201	202	< 5	30.00	< 0.2	1.14	4	1390	< 0.5	< 2	0.14	0.5	6	19	20	2.28	< 10	90	0.09	10	0.24
L22600E 19200N	201	202	< 5	30.00	< 0.2	1.46	8	400	< 0.5	< 2	0.18	< 0.5	10	27	13	2.95	< 10	40	0.08	10	0.41
L22600E 19225N	201	202	< 5	30.00	< 0.2	1.07	16	460	< 0.5	< 2	0.11	< 0.5	13	24	19	3.08	< 10	20	0.10	10	0.28
L22600E 19250N	201	202	< 5	30.00	< 0.2	1.56	8	290	0.5	2	0.21	< 0.5	12	31	18	3.10	< 10	60	0.07	10	0.45
L22600E 19275N	201	202	< 5	30.00	< 0.2	1.34	6	210	< 0.5	< 2	0.24	< 0.5	8	25	13	2.50	< 10	30	0.06	10	0.42
L22600E 19300N	201	202	< 5	30.00	< 0.2	1.37	16	350	0.5	< 2	0.22	< 0.5	13	31	22	3.41	< 10	40	0.09	10	0.41
L22600E 19325N	201	202	< 5	30.00	< 0.2	1.48	2	270	< 0.5	< 2	0.25	< 0.5	7	26	17	2.39	< 10	40	0.05	10	0.45
L22600E 19350N	201	202	< 5	30.00	< 0.2	1.45	4	260	< 0.5	< 2	0.24	< 0.5	10	27	14	2.61	< 10	70	0.06	10	0.45
L22600E 19375N	201	202	< 5	30.00	< 0.2	1.27	8	440	< 0.5	< 2	0.38	< 0.5	8	27	22	2.51	< 10	40	0.07	10	0.45
L22700E 18000N	201	202	< 5	30.00	< 0.2	1.91	196	160	0.5	< 2	0.06	< 0.5	12	25	21	3.90	< 10	< 10	0.06	< 10	0.38
L22700E 18025N	201	202	< 5	30.00	0.2	1.25	82	240	< 0.5	< 2	0.09	< 0.5	7	21	12	2.84	< 10	20	0.06	< 10	0.32
L22700E 18050N	201	202	50	30.00	0.8	1.44	38	210	0.5	2	0.05	< 0.5	7	21	16	3.37	< 10	30	0.06	< 10	0.39
L22700E 18075N	201	202	90	30.00	< 0.2	1.80	78	170	0.5	6	0.04	< 0.5	9	32	25	4.15	< 10	30	0.06	< 10	0.51
L22700E 18100N	201	202	10	30.00	0.2	0.74	14	200	< 0.5	< 2	0.03	< 0.5	1	9	24	1.05	< 10	40	0.02	10	0.05
L22700E 18125N	201	202	< 5	30.00	< 0.2	1.28	24	190	< 0.5	< 2	0.08	< 0.5	7	20	14	2.85	< 10	10	0.08	10	0.30
L22700E 18150N	201	202	< 5	30.00	0.2	2.24	58	520	0.5	< 2	0.06	0.5	13	28	19	3.52	< 10	10	0.12	20	0.41

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Page : 3-B
Total : 5
Certif. : 23-AUG-97
Invoice No. : 19737981
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9737981

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L22600E 18575N	201 202	160	1 < 0.01		24	720	12 < 2		4	30	0.03 < 10	< 10	< 10	32 < 10		100
L22600E 18600N	201 202	135	1 < 0.01		23	680	12 < 2		4	28	0.03 < 10	< 10	< 10	32 < 10		82
L22600E 18625N	201 202	960	1 < 0.01		33	960	14 < 28		3	113	0.01 < 10	< 10	< 10	49 < 10		152
L22600E 18650N	201 202	290	1 < 0.01		28	690	14 < 24		4	36	0.03 < 10	< 10	< 10	67 < 10		178
L22600E 18675N	201 202	325	< 1 < 0.01		32	750	14 < 18		4	57	0.03 < 10	< 10	< 10	57 < 10		214
L22600E 18700N	201 202	125	2 < 0.01		26	590	16 < 2		2	39	< 0.01 < 10	< 10	< 10	35 < 10		114
L22600E 18725N	201 202	125	1 < 0.01		16	280	12 < 2		1	22	0.01 < 10	< 10	< 10	32 < 10		74
L22600E 18750N	201 202	115	< 1 < 0.01		14	390	12 < 2		1	20	0.01 < 10	< 10	< 10	29 < 10		60
L22600E 18775N	201 202	215	< 1 < 0.01		17	580	10 < 2		3	18	0.03 < 10	< 10	< 10	32 < 10		66
L22600E 18800N	201 202	165	4 < 0.01		17	560	12 < 8		1	71	0.01 < 10	< 10	< 10	30 < 10		98
L22600E 18825N	201 202	190	< 1 < 0.01		18	550	8 < 2		3	20	0.03 < 10	< 10	< 10	31 < 10		66
L22600E 18850N	201 202	235	< 1 < 0.01		21	620	8 < 2		4	25	0.05 < 10	< 10	< 10	35 < 10		76
L22600E 18875N	201 202	1680	1 < 0.01		44	830	10 < 22		4	48	0.03 < 10	< 10	< 10	61 < 10		210
L22600E 18900N	201 202	1915	3 < 0.01		39	890	10 < 36		4	47	0.02 < 10	< 10	< 10	71 < 10		192
L22600E 18925N	201 202	>10000	12 < 0.01		29	1100	6 < 18		1	290	0.01 < 10	< 10	< 10	17 < 10		158
L22600E 18950N	201 202	225	2 < 0.01		49	320	16 < 2		4	96	< 0.01 < 10	< 10	< 10	30 < 10		144
L22600E 18975N	201 202	310	3 < 0.01		44	550	22 < 2		4	191	< 0.01 < 10	< 10	< 10	49 < 10		272
L22600E 19000N	201 202	180	< 1 < 0.01		11	190	14 < 2		2	18	0.03 < 10	< 10	< 10	49 < 10		50
L22600E 19025N	201 202	145	< 1 < 0.01		15	560	16 < 2		3	29	0.03 < 10	< 10	< 10	46 < 10		74
L22600E 19050N	201 202	340	< 1 < 0.01		15	680	12 < 2		4	48	0.04 < 10	< 10	< 10	45 < 10		74
L22600E 19075N	201 202	560	1 < 0.01		22	950	18 < 2		3	65	< 0.01 < 10	< 10	< 10	30 < 10		78
L22600E 19100N	201 202	135	< 1 < 0.01		19	540	16 < 2		4	50	< 0.01 < 10	< 10	< 10	35 < 10		74
L22600E 19125N	201 202	425	3 < 0.01		29	540	18 < 2		4	76	< 0.01 < 10	< 10	< 10	43 < 10		126
L22600E 19150N	201 202	100	2 < 0.01		11	890	18 < 2		2	144	< 0.01 < 10	< 10	< 10	36 < 10		38
L22600E 19175N	201 202	190	1 < 0.01		18	600	18 < 2		3	112	< 0.01 < 10	< 10	< 10	37 < 10		66
L22600E 19200N	201 202	420	< 1 < 0.01		21	580	12 < 2		3	51	0.02 < 10	< 10	< 10	42 < 10		86
L22600E 19225N	201 202	545	1 < 0.01		27	470	14 < 2		3	78	0.01 < 10	< 10	< 10	44 < 10		114
L22600E 19250N	201 202	440	< 1 < 0.01		21	590	14 < 2		5	37	0.03 < 10	< 10	< 10	44 < 10		98
L22600E 19275N	201 202	290	1 < 0.01		18	600	8 < 2		3	26	0.04 < 10	< 10	< 10	39 < 10		76
L22600E 19300N	201 202	1125	< 1 < 0.01		25	670	20 < 2		6	51	0.04 < 10	< 10	< 10	52 < 10		124
L22600E 19325N	201 202	165	< 1 < 0.01		18	580	10 < 2		4	26	0.05 < 10	< 10	< 10	41 < 10		74
L22600E 19350N	201 202	385	< 1 < 0.01		19	520	10 < 2		4	28	0.04 < 10	< 10	< 10	42 < 10		80
L22600E 19375N	201 202	205	< 1 < 0.01		23	690	12 < 2		5	45	0.04 < 10	< 10	< 10	39 < 10		88
L22700E 18000N	201 202	210	1 < 0.01		20	480	14 < 2		3	14	0.03 < 10	< 10	< 10	57 < 10		84
L22700E 18025N	201 202	255	< 1 < 0.01		13	740	10 < 2		2	20	0.02 < 10	< 10	< 10	44 < 10		54
L22700E 18050N	201 202	200	1 < 0.01		15	1060	12 < 2		3	22	0.01 < 10	< 10	< 10	50 < 10		58
L22700E 18075N	201 202	150	1 < 0.01		20	490	16 < 6		3	23	0.02 < 10	< 10	< 10	47 < 10		58
L22700E 18100N	201 202	25	< 1 < 0.01		6	420	8 < 2		< 1	11	< 0.01 < 10	< 10	< 10	15 < 10		12
L22700E 18125N	201 202	205	< 1 < 0.01		15	410	8 < 2		1	16	0.03 < 10	< 10	< 10	40 < 10		62
L22700E 18150N	201 202	265	< 1 < 0.01		23	450	12 < 2		3	18	0.01 < 10	< 10	< 10	42 < 10		146

CERTIFICATION: 10/12/97



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN: RICK DIMENT

Page: 4-A
 Total: 5
 Certificate No.: 23-AUG-97
 Invoice No.: 19737981
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS A9737981

SAMPLE	PREP CODE	Au ppb fusion FA+AA wt. gm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
L22700E 18175N	201 202	< 5 30.00	< 0.2	2.29	32	290	0.5	< 2	0.15	< 0.5	12	28	12	3.01	< 10	10	0.06	10	0.40
L22700E 18200N	201 202	< 5 30.00	0.2	2.04	22	240	0.5	< 2	0.08	< 0.5	10	27	13	2.99	< 10	< 10	0.06	10	0.36
L22700E 18225N	201 202	< 5 30.00	0.2	1.47	32	260	0.5	2	0.05	< 0.5	5	21	31	4.30	< 10	< 10	0.12	10	0.39
L22700E 18250N	201 202	10 30.00	0.2	1.55	12	250	< 0.5	< 2	0.13	< 0.5	10	24	14	2.97	< 10	< 10	0.10	10	0.40
L22700E 18275N	201 202	< 5 30.00	0.2	1.40	14	170	< 0.5	< 2	0.08	< 0.5	8	20	15	2.76	< 10	10	0.07	10	0.30
L22700E 18300N	201 202	5 30.00	0.2	2.07	22	210	0.5	< 2	0.09	< 0.5	8	30	25	3.68	< 10	10	0.09	10	0.52
L22700E 18325N	201 202	10 30.00	< 0.2	1.80	10	190	< 0.5	< 2	0.07	< 0.5	7	28	20	2.84	< 10	20	0.04	< 10	0.46
L22700E 18350N	201 202	20 30.00	< 0.2	1.42	14	190	< 0.5	< 2	0.10	< 0.5	7	23	22	2.82	< 10	10	0.07	10	0.45
L22700E 18375N	201 202	< 5 30.00	0.6	0.80	6	230	< 0.5	< 2	0.07	0.5	5	10	17	1.81	< 10	20	0.06	10	0.12
L22700E 18400N	201 202	< 5 15.00	0.2	1.24	2	230	< 0.5	< 2	0.05	< 0.5	8	16	10	2.38	< 10	< 10	0.05	10	0.22
L22700E 18425N	201 202	< 5 30.00	0.6	1.78	6	180	< 0.5	< 2	0.06	< 0.5	8	25	11	2.87	< 10	10	0.05	10	0.38
L22700E 18450N	201 202	< 5 30.00	< 0.2	1.44	10	130	< 0.5	< 2	0.06	< 0.5	5	21	8	2.77	< 10	10	0.04	10	0.32
L22700E 18475N	201 202	10 30.00	< 0.2	1.53	2	140	< 0.5	< 2	0.10	< 0.5	7	24	18	2.39	< 10	30	0.03	10	0.41
L22700E 18500N	201 202	< 5 15.00	< 0.2	1.85	12	170	< 0.5	< 2	0.09	< 0.5	9	30	11	2.64	< 10	20	0.04	10	0.39
L22700E 18525N	201 202	< 5 30.00	< 0.2	0.97	8	110	< 0.5	< 2	0.06	< 0.5	7	16	19	2.46	< 10	40	0.07	10	0.19
L22700E 18550N	201 202	80 30.00	0.4	0.75	236	220	0.5	< 2	0.09	< 0.5	11	13	24	2.78	< 10	110	0.10	10	0.18
L22700E 18575N	201 202	30 30.00	0.2	1.09	36	150	< 0.5	< 2	0.18	< 0.5	6	20	18	1.99	< 10	60	0.07	10	0.35
L22700E 18600N	201 202	< 5 30.00	< 0.2	1.32	8	250	< 0.5	< 2	0.23	< 0.5	7	24	21	1.89	< 10	30	0.06	10	0.43
L22700E 18625N	201 202	35 30.00	0.2	1.36	62	310	0.5	< 2	0.43	< 0.5	25	22	23	2.34	< 10	90	0.08	10	0.42
L22700E 18650N	201 202	< 5 30.00	< 0.2	1.20	16	420	< 0.5	< 2	0.27	1.5	10	23	20	2.02	< 10	40	0.05	10	0.42
L22700E 18675N	201 202	10 30.00	0.4	1.30	32	470	0.5	< 2	0.34	0.5	12	29	20	3.06	< 10	90	0.09	10	0.41
L22700E 18700N	201 202	5 30.00	1.0	1.33	12	1360	0.5	< 2	1.19	3.0	8	25	28	2.31	< 10	140	0.10	10	0.36
L22700E 18725N	201 202	< 5 30.00	0.6	1.51	12	1450	0.5	< 2	0.39	7.0	8	26	34	2.20	< 10	130	0.07	10	0.33
L22700E 18750N	201 202	< 5 30.00	< 0.2	1.32	28	270	0.5	< 2	0.15	1.0	8	30	21	2.83	< 10	30	0.07	20	0.43
L22700E 18775N	201 202	15 30.00	< 0.2	1.43	88	320	< 0.5	< 2	0.12	< 0.5	6	26	11	2.82	< 10	20	0.07	10	0.41
L22700E 18800N	201 202	< 5 30.00	< 0.2	1.64	34	190	< 0.5	< 2	0.10	< 0.5	6	25	8	2.76	< 10	10	0.05	10	0.34
L22700E 18825N	201 202	< 5 30.00	< 0.2	1.46	22	180	< 0.5	< 2	0.09	< 0.5	6	21	9	2.64	< 10	30	0.05	10	0.33
L22700E 18850N	201 202	< 5 30.00	< 0.2	0.91	42	320	0.5	< 2	0.09	1.0	14	16	22	3.73	< 10	10	0.09	30	0.24
L22700E 18875N	201 202	< 5 10.00	0.2	1.07	< 2	1250	0.5	< 2	1.67	2.0	6	12	24	1.34	< 10	110	0.04	< 10	0.20
L22700E 18900N	201 202	< 5 30.00	< 0.2	1.60	50	290	0.5	< 2	0.11	< 0.5	17	46	24	4.54	< 10	< 10	0.09	10	0.45
L22700E 18925N	201 202	< 5 30.00	0.2	1.55	< 2	390	< 0.5	< 2	0.06	0.5	9	23	16	2.97	< 10	10	0.11	20	0.30
L22700E 18950N	201 202	< 5 30.00	0.2	1.42	66	390	0.5	< 2	0.11	< 0.5	9	41	12	3.64	< 10	10	0.05	10	0.33
L22700E 18975N	201 202	< 5 30.00	< 0.2	1.42	18	140	< 0.5	< 2	0.09	< 0.5	6	26	5	3.04	< 10	10	0.04	< 10	0.34
L22700E 19000N	201 202	< 5 30.00	< 0.2	1.40	154	430	1.5	2	0.15	0.5	27	87	35	4.92	< 10	10	0.19	30	0.61
L22700E 19025N	201 202	< 5 30.00	0.2	0.88	166	460	1.5	2	0.18	< 0.5	22	46	37	6.47	< 10	30	0.09	40	0.23
L22700E 19050N	201 202	< 5 30.00	< 0.2	0.91	108	370	0.5	< 2	0.17	0.5	19	48	29	4.61	< 10	30	0.07	20	0.30
L22700E 19075N	201 202	< 5 30.00	< 0.2	0.95	10	370	< 0.5	< 2	0.12	0.5	6	22	14	2.03	< 10	90	0.04	10	0.23
L22700E 19100N	201 202	< 5 30.00	< 0.2	0.94	20	200	< 0.5	< 2	0.12	< 0.5	4	20	10	2.11	< 10	< 10	0.03	10	0.24
L22700E 19125N	201 202	< 5 30.00	< 0.2	0.99	12	570	< 0.5	< 2	0.16	0.5	10	19	16	1.91	< 10	60	0.05	10	0.28
L22700E 19150N	201 202	< 5 30.00	< 0.2	1.29	8	810	< 0.5	< 2	0.16	0.5	5	24	20	1.87	< 10	100	0.06	10	0.34

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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Page per : 4-B
Total r : 5
Certif. : 23-AUG-97
Invoice No. : 19737981
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9737981

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L22700E 18175N	201 202	240	< 1	< 0.01	21	270	12	2	3	20	0.03	< 10	< 10	44	< 10	106
L22700E 18200N	201 202	225	< 1	< 0.01	15	280	10	2	3	10	0.03	< 10	< 10	39	< 10	62
L22700E 18225N	201 202	125	1	< 0.01	14	570	20	8	2	33	0.03	< 10	< 10	46	< 10	62
L22700E 18250N	201 202	300	< 1	< 0.01	13	360	12	< 2	2	20	0.05	< 10	< 10	48	< 10	60
L22700E 18275N	201 202	195	< 1	< 0.01	12	330	10	< 2	2	14	0.05	< 10	< 10	47	< 10	48
L22700E 18300N	201 202	180	1	< 0.01	19	280	10	< 2	3	17	0.06	< 10	< 10	53	< 10	66
L22700E 18325N	201 202	180	< 1	< 0.01	17	170	10	< 2	3	10	0.03	< 10	< 10	39	< 10	56
L22700E 18350N	201 202	165	< 1	< 0.01	16	300	10	< 2	2	16	0.04	< 10	< 10	37	< 10	58
L22700E 18375N	201 202	85	< 1	< 0.01	13	390	18	< 2	< 1	19	0.01	< 10	< 10	29	< 10	46
L22700E 18400N	201 202	215	1	< 0.01	10	210	14	< 2	1	13	0.01	< 10	< 10	35	< 10	52
L22700E 18425N	201 202	255	< 1	< 0.01	13	240	12	< 2	2	11	0.03	< 10	< 10	43	< 10	74
L22700E 18450N	201 202	165	1	< 0.01	12	220	10	< 2	1	10	0.02	< 10	< 10	42	< 10	48
L22700E 18475N	201 202	180	< 1	< 0.01	19	290	8	< 2	3	11	0.03	< 10	< 10	33	< 10	52
L22700E 18500N	201 202	230	< 1	< 0.01	17	160	10	< 2	3	12	0.04	< 10	< 10	41	< 10	52
L22700E 18525N	201 202	185	< 1	< 0.01	19	520	16	< 2	1	20	0.01	< 10	< 10	27	< 10	68
L22700E 18550N	201 202	345	1	< 0.01	26	670	28	6	2	73	< 0.01	< 10	< 10	22	< 10	98
L22700E 18575N	201 202	145	< 1	< 0.01	16	630	12	< 2	2	22	0.02	< 10	< 10	27	< 10	60
L22700E 18600N	201 202	120	< 1	< 0.01	18	560	10	< 2	3	22	0.04	< 10	< 10	31	< 10	62
L22700E 18625N	201 202	645	< 1	< 0.01	29	780	14	2	3	45	0.02	< 10	< 10	33	< 10	92
L22700E 18650N	201 202	245	< 1	< 0.01	27	680	12	< 2	4	28	0.04	< 10	< 10	34	< 10	124
L22700E 18675N	201 202	730	1	< 0.01	34	540	62	< 2	5	66	< 0.01	< 10	< 10	43	< 10	192
L22700E 18700N	201 202	545	1	0.01	42	630	26	< 2	6	203	< 0.01	< 10	< 10	51	< 10	146
L22700E 18725N	201 202	400	1	< 0.01	38	700	30	2	1	103	0.01	< 10	< 10	88	< 10	184
L22700E 18750N	201 202	225	1	< 0.01	26	430	28	2	4	27	0.05	< 10	< 10	48	< 10	128
L22700E 18775N	201 202	195	1	< 0.01	17	390	36	2	3	27	0.03	< 10	< 10	49	< 10	98
L22700E 18800N	201 202	195	< 1	< 0.01	15	310	20	< 2	3	19	0.04	< 10	< 10	48	< 10	68
L22700E 18825N	201 202	175	< 1	< 0.01	18	300	24	2	3	27	0.03	< 10	< 10	34	< 10	100
L22700E 18850N	201 202	410	1	0.01	36	720	30	4	4	67	< 0.01	< 10	< 10	29	< 10	238
L22700E 18875N	201 202	285	< 1	0.01	39	850	6	< 2	4	268	< 0.01	< 10	< 10	13	< 10	64
L22700E 18900N	201 202	270	2	0.01	47	340	30	2	5	32	< 0.01	< 10	< 10	60	< 10	200
L22700E 18925N	201 202	220	3	0.01	25	370	16	2	3	57	< 0.01	< 10	< 10	51	< 10	202
L22700E 18950N	201 202	260	< 1	< 0.01	20	560	20	2	5	35	0.05	< 10	< 10	64	< 10	70
L22700E 18975N	201 202	215	< 1	< 0.01	12	490	12	< 2	2	13	0.04	< 10	< 10	47	< 10	48
L22700E 19000N	201 202	1360	< 1	< 0.01	42	1160	22	2	13	68	0.10	< 10	< 10	91	< 10	172
L22700E 19025N	201 202	1145	3	< 0.01	39	1650	56	4	15	121	0.01	< 10	< 10	57	< 10	220
L22700E 19050N	201 202	1070	1	< 0.01	29	1160	36	6	9	61	0.03	< 10	< 10	63	< 10	138
L22700E 19075N	201 202	195	1	< 0.01	15	780	20	< 2	4	30	0.01	< 10	< 10	32	< 10	62
L22700E 19100N	201 202	150	< 1	< 0.01	11	750	16	< 2	1	20	0.01	< 10	< 10	32	< 10	46
L22700E 19125N	201 202	470	10	< 0.01	19	670	10	< 2	3	47	0.01	< 10	< 10	37	< 10	70
L22700E 19150N	201 202	100	< 1	< 0.01	20	650	12	< 2	4	39	0.03	< 10	< 10	37	< 10	74

CERTIFICATION: _____



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Page 1 of 5-A
Total : 5
Certificate No.: 23-AUG-97
Invoice No.: 19737981
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9737981

SAMPLE	PREP CODE	Au ppb fusion FA+AA wt. gm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
L22700E 19175H	201 202	< 5 30.00	0.6	1.35	20	1010	< 0.5	< 2	0.11	1.0	9	18	27	2.73	< 10	200	0.16	10	0.19
L22700E 19200H	201 202	< 5 30.00	0.2	1.22	18	1200	< 0.5	< 2	0.10	0.5	4	18	21	2.48	< 10	110	0.11	10	0.21
L22700E 19225H	201 202	< 5 30.00	< 0.2	1.72	8	520	< 0.5	< 2	0.10	0.5	9	27	18	2.66	< 10	60	0.06	10	0.47
L22700E 19250H	201 202	< 5 30.00	< 0.2	1.79	10	1020	0.5	< 2	0.12	2.5	9	27	32	3.38	< 10	30	0.10	10	0.42
L22700E 19275H	201 202	< 5 30.00	< 0.2	1.56	2	500	< 0.5	< 2	0.17	0.5	16	24	26	2.51	< 10	70	0.09	10	0.36
L22700E 19300H	201 202	< 5 30.00	< 0.2	1.23	14	460	< 0.5	< 2	0.19	0.5	7	21	13	2.47	< 10	40	0.06	10	0.35

CERTIFICATION: _____



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page 1. :5-B
 Total F :5
 Certificate No.: 23-AUG-97
 Invoice No. :19737981
 P.O. Number :
 Account :OQN

Project :
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS	A9737981
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SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
L22700E 19175N	201	202	270	6	0.01	24	760	18	< 2	3	145	< 0.01	< 10	< 10	47	< 10	104
L22700E 19200N	201	202	80	5	< 0.01	21	760	16	< 2	3	103	< 0.01	< 10	< 10	47	< 10	72
L22700E 19225N	201	202	240	1	< 0.01	23	270	8	< 2	3	28	0.03	< 10	< 10	45	< 10	84
L22700E 19250N	201	202	220	1	0.01	32	530	16	< 2	3	73	0.01	< 10	< 10	51	< 10	122
L22700E 19275N	201	202	440	1	0.01	21	670	24	< 2	4	50	0.01	< 10	< 10	40	< 10	78
L22700E 19300N	201	202	235	1	< 0.01	19	610	14	< 2	3	43	0.01	< 10	< 10	39	< 10	76

CERTIFICATION: _____

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page : 1-A
 Total : 3
 Certificate No.: 06-AUG-97
 Invoice No.: 19734324
 P.O. Number :
 Account : OON

Project :
 Comments: ATTN: RICK DIMENT

CERTIFICATE OF ANALYSIS

A9734324

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	FA+AA	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L20000E 18500N	201	202	< 5	-----	0.2	1.39	8	150	< 0.5	< 2	0.13	< 0.5	5	23	11	2.44	< 10	30	0.06	10	0.29
L20000E 18550N	201	202	< 5	-----	0.2	2.19	8	400	< 0.5	< 2	0.20	< 0.5	8	44	17	3.03	< 10	70	0.06	10	0.59
L20000E 18575N	201	202	< 5	-----	0.6	2.03	12	290	< 0.5	< 2	0.25	< 0.5	7	29	17	2.66	< 10	40	0.06	10	0.42
L20000E 18600N	201	202	< 5	-----	0.6	1.90	8	210	< 0.5	< 2	0.18	< 0.5	7	31	15	3.15	< 10	30	0.09	10	0.43
L20000E 18625N	201	202	5	-----	2.2	1.87	12	200	0.5	< 2	0.11	< 0.5	7	26	18	2.94	< 10	90	0.06	10	0.38
L20000E 18650N	201	202	< 5	-----	3.4	2.12	12	170	< 0.5	< 2	0.12	< 0.5	6	28	11	2.90	< 10	50	0.06	10	0.41
L20000E 18675N	201	202	< 5	-----	0.6	1.61	10	160	< 0.5	2	0.15	< 0.5	8	26	16	2.51	< 10	50	0.04	10	0.45
L20000E 18725N	201	202	< 5	-----	< 0.2	1.95	4	310	< 0.5	< 2	0.35	< 0.5	8	28	11	2.63	< 10	50	0.03	10	0.41
L20000E 18775N	201	202	< 5	-----	0.4	1.02	2	270	0.5	< 2	1.52	< 0.5	8	17	26	2.09	< 10	160	0.05	10	0.39
L20000E 18825N	201	202	< 5	-----	< 0.2	0.77	2	200	0.5	< 2	0.13	< 0.5	8	11	18	2.41	< 10	50	0.06	10	0.11
L20000E 18900N	201	202	< 5	-----	0.2	0.81	6	270	< 0.5	< 2	0.56	< 0.5	6	13	21	2.37	< 10	60	0.06	10	0.24
L20000E 18950N	201	202	5	-----	0.8	0.90	44	400	0.5	< 2	0.82	1.0	8	22	44	2.33	< 10	220	0.08	10	0.26
L20000E 18975N	201	202	20	-----	2.2	0.84	94	220	0.5	< 2	1.40	7.5	8	22	42	1.94	< 10	1230	0.06	20	0.29
L20000E 19000N	201	202	15	-----	2.0	0.68	58	260	1.0	< 2	2.83	7.0	5	25	78	1.40	< 10	1700	0.06	20	0.43
L20000E 19150N	201	202	< 5	-----	< 0.2	1.34	6	310	< 0.5	< 2	0.26	< 0.5	10	22	21	2.28	< 10	20	0.08	20	0.40
L20000E 19175N	201	202	< 5	-----	< 0.2	1.25	6	240	< 0.5	< 2	0.21	< 0.5	4	20	14	1.77	< 10	30	0.05	10	0.35
L20000E 19200N	201	202	10	-----	0.2	1.36	40	270	0.5	< 2	0.23	0.5	8	27	29	2.65	< 10	100	0.06	10	0.40
L20000E 19225N	201	202	< 5	-----	0.2	1.62	30	520	< 0.5	< 2	0.15	< 0.5	7	27	21	2.72	< 10	20	0.08	10	0.35
L20000E 19250N	201	202	< 5	-----	0.8	1.25	20	430	< 0.5	< 2	0.14	0.5	4	21	20	1.83	< 10	50	0.07	10	0.30
L20000E 19275N	201	202	< 5	-----	0.2	1.47	14	320	< 0.5	< 2	0.12	< 0.5	6	24	18	2.44	< 10	50	0.06	10	0.37
L20000E 19300N	201	202	< 5	-----	0.2	1.57	10	280	< 0.5	< 2	0.10	< 0.5	4	24	8	2.03	< 10	10	0.05	10	0.29
L20000E 19325N	201	202	< 5	-----	< 0.2	1.71	18	200	< 0.5	< 2	0.09	< 0.5	6	27	14	2.55	< 10	20	0.05	10	0.33
L20000E 19350N	201	202	< 5	-----	< 0.2	1.59	12	260	< 0.5	< 2	0.09	< 0.5	7	28	20	2.58	< 10	70	0.07	10	0.41
L20000E 19375N	201	202	< 5	-----	< 0.2	1.40	18	220	< 0.5	< 2	0.16	< 0.5	9	25	30	2.41	< 10	60	0.05	10	0.41
L20000E 19400N	201	202	< 5	-----	0.2	1.09	110	210	0.5	< 2	0.08	1.5	13	32	31	4.43	< 10	30	0.08	20	0.25
L20000E 19425N	201	202	5	-----	0.2	1.62	44	240	< 0.5	< 2	0.19	0.5	8	31	25	3.71	< 10	30	0.10	10	0.47
L20000E 19450N	201	202	5	-----	2.2	1.29	38	680	0.5	< 2	0.13	2.0	6	21	54	2.75	< 10	280	0.11	20	0.20
L20000E 19550N	201	202	< 5	-----	0.6	0.81	12	250	< 0.5	< 2	0.16	0.5	4	17	14	1.72	< 10	90	0.06	10	0.23
L20000E 19575N	201	202	10	-----	0.8	1.23	36	580	0.5	< 2	0.60	4.0	7	23	34	2.23	< 10	380	0.09	20	0.37
L20100E 18250N	201	202	< 5	-----	0.2	2.60	14	190	< 0.5	< 2	0.11	1.0	8	34	12	3.26	< 10	50	0.04	10	0.46
L20100E 18275N	201	202	< 5	-----	0.4	2.26	16	330	1.5	< 2	0.40	5.0	7	35	18	2.80	< 10	150	0.06	30	0.45
L20100E 18300N	201	202	< 5	-----	< 0.2	2.03	18	180	< 0.5	< 2	0.15	1.0	6	32	15	3.12	< 10	20	0.05	10	0.41
L20100E 18325N	201	202	< 5	-----	0.4	1.29	8	150	< 0.5	< 2	0.18	2.0	4	23	20	1.77	< 10	120	0.05	10	0.26
L20100E 18350N	201	202	< 5	-----	1.6	1.15	8	330	0.5	< 2	0.94	5.0	4	30	47	1.63	< 10	290	0.05	10	0.24
L20100E 18375N	201	202	< 5	-----	1.8	1.40	18	430	0.5	< 2	0.47	0.5	8	34	36	2.31	< 10	280	0.04	20	0.38
L20100E 18400N	201	202	< 5	-----	1.8	1.50	12	230	< 0.5	< 2	0.17	0.5	6	31	19	2.40	< 10	250	0.04	20	0.31
L20100E 18425N	201	202	< 5	-----	1.6	2.05	14	270	< 0.5	< 2	0.24	< 0.5	6	48	23	2.77	< 10	100	0.05	10	0.44
L20100E 18450N	201	202	< 5	-----	3.2	1.40	8	300	0.5	< 2	0.32	0.5	7	40	41	2.47	< 10	450	0.07	30	0.30
L20100E 18475N	201	202	< 5	-----	0.8	2.10	16	300	0.5	< 2	0.27	< 0.5	9	41	24	2.83	< 10	110	0.07	10	0.51
L20100E 18500N	201	202	< 5	-----	1.0	2.02	14	240	0.5	< 2	0.23	< 0.5	8	36	15	3.18	< 10	90	0.06	10	0.47

CERTIFICATION:



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN:RICK DIMENT

Page : 11-B
 Total P : 13
 Certificate No.: 06-AUG-97
 Invoice No. : 19734324
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9734324

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L20000E 18500N	201 202	170	2 < 0.01		22	310	10	2	3	10	0.04	< 10	< 10	61	< 10	98
L20000E 18550N	201 202	270	1 < 0.01		26	340	12	< 2	4	16	0.07	< 10	< 10	69	< 10	82
L20000E 18575N	201 202	250	1 < 0.01		19	250	12	2	3	19	0.06	< 10	< 10	61	< 10	62
L20000E 18600N	201 202	215	1 < 0.01		19	400	10	2	3	16	0.05	< 10	< 10	70	< 10	70
L20000E 18625N	201 202	160	< 1 < 0.01		21	420	10	2	3	11	0.04	< 10	< 10	48	< 10	60
L20000E 18650N	201 202	195	< 1 < 0.01		15	580	12	< 2	3	12	0.05	< 10	< 10	58	< 10	64
L20000E 18675N	201 202	200	< 1 < 0.01		23	290	10	< 2	3	14	0.05	< 10	< 10	41	< 10	58
L20000E 18725N	201 202	295	< 1 < 0.01		18	270	10	< 2	4	18	0.04	< 10	< 10	47	< 10	58
L20000E 18775N	201 202	375	1 < 0.01		25	950	8	2	3	40	0.01	< 10	< 10	28	< 10	68
L20000E 18825N	201 202	270	3 < 0.01		21	450	12	2	2	8	< 0.01	< 10	< 10	27	< 10	72
L20000E 18900N	201 202	115	2 < 0.01		18	330	10	2	2	18	0.01	< 10	< 10	43	< 10	60
L20000E 18950N	201 202	245	7 < 0.01		45	540	14	8	4	36	< 0.01	< 10	< 10	131	< 10	226
L20000E 18975N	201 202	690	17 < 0.01		55	750	34	18	4	45	0.01	< 10	< 10	144	< 10	504
L20000E 19000N	201 202	695	15 < 0.01		61	1420	18	18	3	84	0.01	< 10	< 10	195	< 10	450
L20000E 19150N	201 202	275	1 < 0.01		21	400	12	< 2	4	30	0.04	< 10	< 10	38	< 10	74
L20000E 19175N	201 202	115	1 < 0.01		15	360	6	< 2	3	20	0.04	< 10	< 10	34	< 10	50
L20000E 19200N	201 202	235	1 < 0.01		25	620	48	8	5	37	0.05	< 10	< 10	51	< 10	160
L20000E 19225N	201 202	210	3 < 0.01		19	470	42	8	3	68	0.03	< 10	< 10	84	< 10	102
L20000E 19250N	201 202	110	2 < 0.01		16	330	54	6	3	53	0.04	< 10	< 10	78	< 10	56
L20000E 19275N	201 202	185	3 < 0.01		16	350	30	6	3	34	0.03	< 10	< 10	63	< 10	62
L20000E 19300N	201 202	165	3 < 0.01		9	200	14	2	3	25	0.04	< 10	< 10	59	< 10	44
L20000E 19325N	201 202	170	1 < 0.01		16	280	22	2	4	20	0.04	< 10	< 10	58	< 10	106
L20000E 19350N	201 202	190	1 < 0.01		19	160	20	2	4	18	0.05	< 10	< 10	47	< 10	68
L20000E 19375N	201 202	275	1 < 0.01		21	330	12	< 2	4	17	0.05	< 10	< 10	44	< 10	76
L20000E 19400N	201 202	450	5 < 0.01		43	910	100	36	6	26	0.03	< 10	< 10	59	< 10	352
L20000E 19425N	201 202	300	4 < 0.01		28	630	84	18	4	32	0.06	< 10	< 10	64	< 10	172
L20000E 19450N	201 202	230	6 < 0.01		23	650	102	22	3	46	0.01	< 10	< 10	56	< 10	202
L20000E 19550N	201 202	115	3 < 0.01		12	330	20	10	3	24	0.03	< 10	< 10	38	< 10	90
L20000E 19575N	201 202	230	4 < 0.01		39	1030	20	36	4	62	0.01	< 10	< 10	67	< 10	252
L20100E 18250N	201 202	225	3 < 0.01		22	230	12	< 2	3	13	0.05	< 10	< 10	96	< 10	140
L20100E 18275N	201 202	410	7 < 0.01		52	530	32	2	7	21	0.03	< 10	< 10	174	< 10	496
L20100E 18300N	201 202	190	6 < 0.01		27	250	12	< 2	3	13	0.05	< 10	< 10	144	< 10	176
L20100E 18325N	201 202	140	7 < 0.01		29	600	8	6	1	12	0.01	< 10	< 10	141	< 10	258
L20100E 18350N	201 202	215	5 < 0.01		55	2330	8	4	< 1	32	< 0.01	< 10	< 10	106	< 10	326
L20100E 18375N	201 202	495	1 < 0.01		48	1070	16	2	4	31	0.03	< 10	< 10	64	< 10	172
L20100E 18400N	201 202	180	2 < 0.01		32	590	26	2	2	16	0.03	< 10	< 10	74	< 10	146
L20100E 18425N	201 202	220	3 < 0.01		40	810	10	2	4	18	0.05	< 10	< 10	139	< 10	198
L20100E 18450N	201 202	135	3 < 0.01		52	1640	20	4	2	25	0.03	< 10	< 10	75	< 10	198
L20100E 18475N	201 202	320	1 < 0.01		34	1540	10	< 2	4	21	0.05	< 10	< 10	90	< 10	130
L20100E 18500N	201 202	285	1 < 0.01		29	1370	14	4	3	18	0.05	< 10	< 10	81	< 10	120

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN: RICK DIMENT

Page : 2-A
 Total : 3
 Certificate Date: 06-AUG-97
 Invoice No. : 19734324
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9734324

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA	FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L20100E 18525N	201	202	< 5	-----	1.2	1.37	10	130	< 0.5	< 2	0.12	< 0.5	6	28	16	2.43	< 10	80	0.03	10	0.23
L20100E 18550N	201	202	< 5	-----	1.6	2.38	10	250	< 0.5	< 2	0.25	< 0.5	9	49	24	3.35	< 10	310	0.05	10	0.60
L20100E 18575N	201	202	< 5	-----	1.6	1.84	6	270	< 0.5	< 2	0.33	0.5	6	46	30	2.70	< 10	240	0.06	10	0.54
L20100E 18600N	201	202	< 5	-----	< 0.2	1.92	6	230	< 0.5	< 2	0.26	< 0.5	8	32	19	2.58	< 10	40	0.05	10	0.51
L20100E 18625N	201	202	< 5	-----	< 0.2	2.53	14	330	< 0.5	< 2	0.17	< 0.5	8	35	13	2.93	< 10	30	0.05	10	0.47
L20100E 18650N	201	202	< 5	-----	< 0.2	1.90	4	200	< 0.5	< 2	0.11	< 0.5	7	26	12	2.66	< 10	20	0.05	10	0.36
L20100E 18675N	201	202	< 5	-----	< 0.2	2.43	6	300	< 0.5	< 2	0.26	< 0.5	7	33	7	3.03	< 10	< 10	0.05	10	0.50
L20100E 18700N	201	202	< 5	-----	< 0.2	2.27	6	250	< 0.5	< 2	0.14	< 0.5	6	29	7	2.49	< 10	10	0.03	10	0.40
L20100E 18725N	201	202	< 5	-----	< 0.2	2.26	12	160	< 0.5	< 2	0.10	< 0.5	15	80	25	5.35	10	40	0.06	< 10	0.74
L20100E 18750N	201	202	< 5	-----	< 0.2	0.87	< 2	250	< 0.5	< 2	0.41	< 0.5	3	17	6	1.36	< 10	30	0.04	10	0.23
L20100E 18775N	201	202	< 5	-----	0.2	0.57	4	200	< 0.5	< 2	0.44	< 0.5	1	11	11	0.92	< 10	30	0.05	10	0.08
L20100E 18850N	201	202	< 5	-----	0.8	0.92	4	270	0.5	< 2	1.61	< 0.5	10	16	26	2.27	< 10	340	0.08	10	0.38
L20100E 18900N	201	202	< 5	-----	1.8	0.90	8	260	1.0	< 2	1.22	0.5	8	16	35	2.37	< 10	490	0.10	10	0.32
L20100E 18925N	201	202	10	-----	1.2	0.94	22	260	3.5	< 2	1.01	< 0.5	8	12	26	3.10	< 10	620	0.07	100	0.36
L20100E 19050N	201	202	< 5	-----	< 0.2	1.42	14	600	0.5	< 2	0.37	< 0.5	11	22	30	3.20	< 10	60	0.15	20	0.39
L20100E 19075N	201	202	< 5	-----	< 0.2	1.35	8	230	< 0.5	< 2	0.19	< 0.5	9	23	18	2.18	< 10	10	0.08	20	0.43
L20100E 19100N	201	202	< 5	-----	< 0.2	1.40	6	200	< 0.5	< 2	0.11	< 0.5	5	21	20	2.29	< 10	20	0.08	10	0.35
L20100E 19125N	201	202	< 5	-----	< 0.2	1.40	8	260	< 0.5	< 2	0.07	< 0.5	6	20	23	2.68	< 10	10	0.11	30	0.32
L20100E 19150N	201	202	< 5	-----	< 0.2	1.16	2	280	< 0.5	< 2	0.06	< 0.5	5	14	18	2.23	< 10	10	0.11	30	0.22
L20100E 19175N	201	202	< 5	-----	0.2	1.36	6	280	< 0.5	< 2	0.18	< 0.5	5	23	22	2.06	< 10	30	0.08	10	0.37
L20100E 19200N	201	202	10	-----	< 0.2	1.28	24	230	< 0.5	< 2	0.11	< 0.5	5	21	17	2.16	< 10	50	0.04	10	0.34
L20100E 19225N	201	202	10	-----	0.2	2.03	56	330	0.5	< 2	0.09	0.5	9	32	32	3.43	< 10	40	0.07	10	0.41
L20100E 19250N	201	202	< 5	-----	< 0.2	1.34	14	260	< 0.5	< 2	0.19	< 0.5	7	26	30	2.37	< 10	40	0.05	10	0.43
L20100E 19275N	201	202	< 5	-----	0.2	2.17	8	200	< 0.5	< 2	0.11	0.5	9	30	11	2.92	< 10	90	0.04	10	0.39
L20100E 19300N	201	202	< 5	-----	< 0.2	2.38	18	250	< 0.5	< 2	0.13	0.5	13	34	15	3.25	< 10	40	0.07	10	0.51
L20100E 19325N	201	202	< 5	-----	< 0.2	1.16	8	250	< 0.5	< 2	0.12	2.5	3	21	26	1.74	< 10	110	0.06	10	0.19
L20100E 19350N	201	202	< 5	-----	< 0.2	1.31	36	410	< 0.5	< 2	0.07	< 0.5	5	25	19	3.01	< 10	40	0.12	20	0.21
L20100E 19425N	201	202	< 5	-----	0.2	1.12	40	350	< 0.5	< 2	0.07	< 0.5	5	20	24	2.91	< 10	50	0.10	10	0.20
L20100E 19450N	201	202	< 5	-----	1.2	0.72	14	550	< 0.5	< 2	0.07	1.0	3	16	35	1.66	< 10	250	0.11	10	0.06
L20100E 19500N	201	202	< 5	-----	0.2	1.08	10	320	< 0.5	< 2	0.23	0.5	5	22	19	2.09	< 10	100	0.08	10	0.35
L20100E 19525N	201	202	20	-----	0.6	1.07	24	700	0.5	< 2	0.73	2.0	8	21	35	2.19	< 10	140	0.10	20	0.34
L20200E 18250N	201	202	< 5	-----	0.2	2.22	18	250	0.5	< 2	0.13	1.5	6	35	24	2.83	< 10	50	0.05	10	0.41
L20200E 18275N	201	202	< 5	-----	0.2	2.81	16	240	0.5	< 2	0.18	0.5	7	40	15	3.25	< 10	50	0.05	10	0.54
L20200E 18300N	201	202	< 5	-----	0.2	1.71	6	210	< 0.5	< 2	0.13	0.5	5	27	15	2.31	< 10	20	0.04	10	0.36
L20200E 18325N	201	202	< 5	-----	0.6	1.83	8	230	< 0.5	< 2	0.12	< 0.5	7	33	16	3.15	< 10	30	0.03	10	0.35
L20200E 18350N	201	202	< 5	-----	0.2	1.26	6	140	< 0.5	< 2	0.15	< 0.5	5	23	20	2.10	< 10	50	0.03	10	0.32
L20200E 18375N	201	202	< 5	-----	0.4	1.36	4	210	< 0.5	< 2	0.13	< 0.5	4	20	10	2.23	< 10	40	0.03	< 10	0.27
L20200E 18400N	201	202	< 5	-----	0.2	1.45	10	150	< 0.5	< 2	0.11	< 0.5	4	25	10	2.13	< 10	20	0.03	< 10	0.29
L20200E 18425N	201	202	< 5	-----	0.8	2.02	10	240	< 0.5	< 2	0.15	< 0.5	9	34	26	2.61	< 10	200	0.04	10	0.50
L20200E 18450N	201	202	< 5	-----	0.6	1.80	8	180	< 0.5	< 2	0.15	< 0.5	4	30	16	2.25	< 10	70	0.03	10	0.30

CERTIFICATION: [Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN:RICK DIMENT

Page : :2-B
Total F : :3
Certificate Date: 06-AUG-97
Invoice No. : 19734324
P.O. Number :
Account : :OQN

CERTIFICATE OF ANALYSIS

A9734324

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L20100E 18525N	201	202	180	1 < 0.01		31	660	14	2	1	12	0.04	< 10	< 10	67	< 10	122
L20100E 18550N	201	202	260	1 < 0.01		43	590	20	< 2	4	22	0.07	< 10	< 10	110	< 10	160
L20100E 18575N	201	202	190	1 < 0.01		38	1130	8	2	4	25	0.06	< 10	< 10	94	< 10	180
L20100E 18600N	201	202	240	< 1 < 0.01		22	480	10	< 2	4	23	0.07	< 10	< 10	63	< 10	72
L20100E 18625N	201	202	240	1 < 0.01		22	200	12	< 2	3	17	0.06	< 10	< 10	74	< 10	110
L20100E 18650N	201	202	200	1 < 0.01		22	200	8	< 2	3	12	0.05	< 10	< 10	54	< 10	90
L20100E 18675N	201	202	280	1 < 0.01		19	190	12	< 2	3	19	0.09	< 10	< 10	73	< 10	106
L20100E 18700N	201	202	175	< 1 < 0.01		17	120	10	< 2	3	13	0.05	< 10	< 10	54	< 10	72
L20100E 18725N	201	202	285	3 < 0.01		60	540	8	2	5	10	0.04	< 10	< 10	103	< 10	128
L20100E 18750N	201	202	200	< 1 < 0.01		8	170	8	< 2	1	18	0.06	< 10	< 10	43	< 10	24
L20100E 18775N	201	202	45	< 1 < 0.01		7	280	10	< 2	< 1	21	0.03	< 10	< 10	27	< 10	30
L20100E 18850N	201	202	405	2 < 0.01		32	890	10	< 2	6	45	0.01	< 10	< 10	25	< 10	108
L20100E 18900N	201	202	165	3 < 0.01		38	800	8	2	6	37	0.01	< 10	< 10	28	< 10	142
L20100E 18925N	201	202	325	4 < 0.01		28	590	86	2	6	51	< 0.01	< 10	< 10	25	< 10	158
L20100E 19050N	201	202	295	1 < 0.01		27	390	20	2	4	48	0.01	< 10	< 10	33	< 10	102
L20100E 19075N	201	202	245	< 1 < 0.01		18	230	10	< 2	3	24	0.04	< 10	< 10	35	< 10	66
L20100E 19100N	201	202	130	1 < 0.01		15	240	12	< 2	3	18	0.03	< 10	< 10	35	< 10	52
L20100E 19125N	201	202	135	1 < 0.01		20	290	16	< 2	3	25	0.02	< 10	< 10	34	< 10	70
L20100E 19150N	201	202	85	1 < 0.01		17	300	16	< 2	1	27	< 0.01	< 10	< 10	29	< 10	66
L20100E 19175N	201	202	130	< 1 < 0.01		16	390	14	2	3	26	0.04	< 10	< 10	41	< 10	60
L20100E 19200N	201	202	120	1 < 0.01		16	300	16	2	1	25	0.02	< 10	< 10	41	< 10	64
L20100E 19225N	201	202	255	3 < 0.01		30	490	56	14	4	79	0.04	< 10	< 10	65	< 10	178
L20100E 19250N	201	202	230	1 < 0.01		20	370	14	< 2	4	25	0.05	< 10	< 10	46	< 10	62
L20100E 19275N	201	202	235	1 < 0.01		17	500	14	< 2	3	15	0.06	< 10	< 10	62	< 10	106
L20100E 19300N	201	202	325	1 < 0.01		25	320	16	< 2	4	35	0.06	< 10	< 10	61	< 10	118
L20100E 19325N	201	202	125	1 < 0.01		11	540	16	< 2	< 1	33	0.01	< 10	< 10	48	< 10	52
L20100E 19350N	201	202	165	3 < 0.01		19	730	28	10	3	106	0.03	< 10	< 10	68	< 10	128
L20100E 19425N	201	202	155	8 < 0.01		21	670	34	12	1	53	0.02	< 10	< 10	60	< 10	158
L20100E 19450N	201	202	55	9 < 0.01		16	1210	36	12	< 1	72	< 0.01	< 10	< 10	45	< 10	102
L20100E 19500N	201	202	150	3 < 0.01		17	650	18	< 2	3	42	0.05	< 10	< 10	45	< 10	90
L20100E 19525N	201	202	175	4 < 0.01		44	1010	18	34	4	84	0.01	< 10	< 10	57	< 10	236
L20200E 18250N	201	202	235	10 < 0.01		41	250	12	< 2	3	13	0.05	< 10	< 10	214	< 10	368
L20200E 18275N	201	202	245	1 < 0.01		20	210	12	< 2	4	16	0.08	< 10	< 10	106	< 10	164
L20200E 18300N	201	202	235	1 < 0.01		17	330	10	< 2	1	13	0.04	< 10	< 10	96	< 10	134
L20200E 18325N	201	202	275	3 < 0.01		31	590	12	< 2	2	12	0.03	< 10	< 10	108	< 10	188
L20200E 18350N	201	202	175	1 < 0.01		24	840	8	< 2	1	13	0.01	< 10	< 10	55	< 10	78
L20200E 18375N	201	202	130	1 < 0.01		11	440	10	< 2	1	10	0.01	< 10	< 10	45	< 10	46
L20200E 18400N	201	202	120	< 1 < 0.01		13	420	10	< 2	1	10	0.02	< 10	< 10	52	< 10	54
L20200E 18425N	201	202	200	1 < 0.01		33	360	10	< 2	4	15	0.04	< 10	< 10	58	< 10	84
L20200E 18450N	201	202	125	1 < 0.01		20	470	10	< 2	3	15	0.04	< 10	< 10	63	< 10	68

CERTIFICATION:



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
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Page 3-A
 Total F 3
 Certificate Date: 06-AUG-97
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CERTIFICATE OF ANALYSIS

A9734324

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L20200E 18475N	201	202	< 5	-----	0.2	2.20	8	160	< 0.5	< 2	0.16	< 0.5	6	36	12	2.99	< 10	180	0.05	10	0.48
L20200E 18500N	201	202	< 5	-----	< 0.2	2.34	16	240	0.5	< 2	0.19	< 0.5	10	58	15	3.57	< 10	120	0.06	20	0.67
L20200E 18525N	201	202	< 5	-----	< 0.2	2.15	14	200	< 0.5	< 2	0.24	< 0.5	7	55	18	3.17	< 10	130	0.04	10	0.47
L20200E 18550N	201	202	< 5	-----	< 0.2	2.27	12	210	< 0.5	< 2	0.19	< 0.5	7	45	15	2.70	< 10	120	0.04	10	0.53
L20200E 18575N	201	202	< 5	-----	< 0.2	1.36	16	100	< 0.5	< 2	0.15	< 0.5	5	25	9	3.10	< 10	40	0.04	10	0.31
L20200E 18600N	201	202	< 5	-----	0.2	0.66	12	70	< 0.5	< 2	0.07	< 0.5	7	23	33	2.56	< 10	70	0.03	20	0.06
L20200E 18625N	201	202	< 5	-----	0.2	1.27	8	160	< 0.5	< 2	0.17	< 0.5	7	21	14	2.17	< 10	100	0.03	10	0.25
L20200E 18675N	201	202	< 5	-----	0.8	0.63	22	160	0.5	< 2	2.31	5.0	6	17	43	1.66	< 10	860	0.05	10	0.38
L20200E 18700N	201	202	< 5	-----	0.2	0.97	10	270	0.5	< 2	1.32	1.5	9	21	31	2.16	< 10	480	0.05	10	0.43
L20200E 18975N	201	202	20	-----	0.2	1.32	70	280	< 0.5	< 2	0.22	0.5	6	22	23	2.26	< 10	130	0.08	10	0.33
L20200E 19000N	201	202	< 5	-----	0.2	1.39	10	310	< 0.5	< 2	0.16	0.5	6	20	19	2.17	< 10	30	0.10	10	0.31
L20200E 19025N	201	202	< 5	-----	< 0.2	1.73	42	200	< 0.5	< 2	0.21	< 0.5	5	25	14	2.79	< 10	20	0.10	10	0.35
L20200E 19050N	201	202	< 5	-----	0.2	1.82	18	220	< 0.5	< 2	0.12	< 0.5	7	24	12	2.66	< 10	10	0.09	10	0.36
L20200E 19100N	201	202	< 5	-----	0.6	2.21	10	220	< 0.5	< 2	0.14	< 0.5	9	30	10	2.80	< 10	30	0.07	10	0.40
L20200E 19125N	201	202	< 5	-----	0.2	2.42	2	240	0.5	< 2	0.12	< 0.5	11	33	19	3.23	< 10	30	0.08	10	0.51
L20200E 19150N	201	202	< 5	-----	< 0.2	2.56	4	280	0.5	< 2	0.09	< 0.5	9	25	17	2.90	< 10	10	0.10	30	0.40
L20200E 19175N	201	202	< 5	-----	0.2	2.88	12	200	0.5	< 2	0.08	< 0.5	10	33	17	3.42	< 10	30	0.08	10	0.46
L20200E 19200N	201	202	< 5	-----	< 0.2	0.99	8	120	< 0.5	< 2	0.04	< 0.5	4	12	11	2.03	< 10	< 10	0.08	30	0.13
L20200E 19225N	201	202	30	-----	26.2	0.49	360	250	< 0.5	2	0.02	< 0.5	< 1	11	25	2.72	< 10	260	0.30	30	0.03
L20200E 19325N	201	202	< 5	-----	1.0	0.75	38	670	0.5	< 2	0.06	1.5	5	16	38	1.61	< 10	100	0.13	30	0.10
L20200E 19350N	201	202	< 5	-----	< 0.2	1.20	16	370	< 0.5	< 2	0.07	< 0.5	8	18	24	2.94	< 10	20	0.13	30	0.14
L20200E 19375N	201	202	< 5	-----	0.2	1.14	20	410	< 0.5	< 2	0.06	< 0.5	4	22	14	2.37	< 10	30	0.12	20	0.18
L20200E 19400N	201	202	< 5	-----	0.2	1.69	28	400	0.5	< 2	0.10	0.5	10	25	21	3.06	< 10	80	0.15	20	0.26
L20200E 19450N	201	202	< 5	-----	0.4	1.11	36	480	< 0.5	< 2	0.07	2.0	9	26	29	3.04	< 10	70	0.14	20	0.23
L20200E 19475N	201	202	< 5	-----	1.4	0.53	38	770	0.5	< 2	0.03	1.0	9	15	47	3.77	< 10	60	0.20	40	0.04
L20200E 19500N	201	202	< 5	-----	0.6	0.50	36	670	< 0.5	< 2	0.04	0.5	6	12	37	2.76	< 10	70	0.13	30	0.05
L20200E 19525N	201	202	< 5	-----	0.6	1.10	8	200	< 0.5	< 2	0.25	0.5	6	20	14	2.02	< 10	250	0.06	10	0.32

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN:RICK DIMENT

Page : 3-B
 Total F : 3
 Certific. : 06-AUG-97
 Invoice No. : 19734324
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9734324

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L20200E 18475N	201 202	175	< 1 < 0.01		19	390	10	< 2	4	16	0.07	< 10	< 10	73	< 10	60
L20200E 18500N	201 202	365	1 < 0.01		25	630	14	< 2	5	20	0.09	< 10	< 10	93	< 10	120
L20200E 18525N	201 202	170	2 < 0.01		37	940	12	< 2	2	20	0.04	< 10	< 10	146	< 10	178
L20200E 18550N	201 202	190	2 < 0.01		27	440	8	< 2	4	18	0.06	< 10	< 10	107	< 10	116
L20200E 18575N	201 202	175	1 < 0.01		16	830	10	< 2	2	15	0.05	< 10	< 10	79	< 10	78
L20200E 18600N	201 202	95	4 < 0.01		73	460	10	< 2	1	10	0.02	< 10	< 10	84	< 10	322
L20200E 18625N	201 202	215	1 < 0.01		22	570	12	< 2	1	15	0.03	< 10	< 10	46	< 10	86
L20200E 18675N	201 202	185	28 < 0.01		83	1310	6	6	3	87	< 0.01	< 10	< 10	118	< 10	404
L20200E 18700N	201 202	240	10 < 0.01		59	630	8	2	6	52	0.01	< 10	< 10	83	< 10	336
L20200E 18975N	201 202	170	3 < 0.01		24	570	14	8	3	27	0.02	< 10	< 10	62	< 10	116
L20200E 19000N	201 202	195	3 < 0.01		22	470	12	2	3	26	0.02	< 10	< 10	54	< 10	154
L20200E 19025N	201 202	155	1 < 0.01		15	340	10	< 2	3	25	0.03	< 10	< 10	48	< 10	64
L20200E 19050N	201 202	195	< 1 < 0.01		15	250	16	< 2	3	18	0.05	< 10	< 10	51	< 10	80
L20200E 19100N	201 202	290	< 1 < 0.01		16	330	10	< 2	3	16	0.07	< 10	< 10	59	< 10	80
L20200E 19125N	201 202	280	1 < 0.01		24	290	12	< 2	4	23	0.06	< 10	< 10	55	< 10	96
L20200E 19150N	201 202	220	1 < 0.01		20	380	14	< 2	3	14	0.01	< 10	< 10	44	< 10	138
L20200E 19175N	201 202	330	1 < 0.01		22	370	18	< 2	3	14	0.03	< 10	< 10	56	< 10	86
L20200E 19200N	201 202	105	1 < 0.01		11	260	18	2	1	14	0.01	< 10	< 10	31	< 10	60
L20200E 19225N	201 202	20	19 < 0.01		6	520	1660	262	1	106	< 0.01	< 10	< 10	56	< 10	66
L20200E 19325N	201 202	175	4 < 0.01		17	830	100	18	1	135	< 0.01	< 10	< 10	38	< 10	104
L20200E 19350N	201 202	210	2 < 0.01		25	550	30	6	3	45	< 0.01	< 10	< 10	42	< 10	134
L20200E 19375N	201 202	130	5 < 0.01		15	540	32	10	2	61	0.02	< 10	< 10	87	< 10	86
L20200E 19400N	201 202	415	3 < 0.01		24	810	34	2	3	65	0.01	< 10	< 10	50	< 10	134
L20200E 19450N	201 202	475	5 < 0.01		29	700	88	12	3	88	0.03	< 10	< 10	74	< 10	160
L20200E 19475N	201 202	155	10 < 0.01		44	1040	76	16	2	142	< 0.01	< 10	< 10	59	< 10	332
L20200E 19500N	201 202	105	11 < 0.01		28	640	38	10	1	88	< 0.01	< 10	< 10	50	< 10	212
L20200E 19525N	201 202	205	1 < 0.01		19	840	14	18	1	25	0.02	< 10	< 10	40	< 10	104

CERTIFICATION:

Handwritten signature: Stuart B. ...



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN:RICK DIMENT

Page : 1-A
 Total : 5
 Certificate Date: 06-AUG-97
 Invoice No. : 19734319
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9734319

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	PA+AA	PA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L19500E 18525N	201	202	< 5	-----	0.6	0.78	4	380	< 0.5	< 2	2.48	2.0	5	15	33	1.36	< 10	300	0.04	< 10	0.39
L19500E 18550N	201	202	< 5	-----	0.2	1.04	< 2	180	< 0.5	< 2	0.16	0.5	6	16	13	2.27	< 10	20	0.06	< 10	0.22
L19500E 18575N	201	202	< 5	-----	< 0.2	1.34	4	150	< 0.5	< 2	0.09	< 0.5	6	20	10	2.22	< 10	10	0.04	< 10	0.33
L19500E 18600N	201	202	< 5	-----	< 0.2	1.25	6	300	< 0.5	< 2	0.12	0.5	7	21	16	2.13	< 10	20	0.04	< 10	0.10
L19500E 18625N	201	202	< 5	-----	< 0.2	0.91	4	140	< 0.5	< 2	0.07	< 0.5	7	13	25	2.25	< 10	10	0.07	< 10	0.18
L19500E 18650N	201	202	< 5	-----	< 0.2	1.77	4	230	< 0.5	< 2	0.17	< 0.5	8	27	15	2.58	< 10	10	0.05	< 10	0.45
L19500E 18675N	201	202	< 5	-----	< 0.2	1.22	< 2	240	< 0.5	< 2	0.13	< 0.5	7	18	11	2.28	< 10	10	0.05	< 10	0.34
L19500E 18700N	201	202	< 5	-----	< 0.2	1.59	< 2	270	< 0.5	< 2	0.15	< 0.5	7	24	14	2.52	< 10	10	0.04	< 10	0.43
L19500E 18725N	201	202	< 5	-----	< 0.2	1.17	2	230	< 0.5	< 2	0.08	< 0.5	6	15	12	2.25	< 10	20	0.04	< 10	0.28
L19500E 18750N	201	202	< 5	-----	< 0.2	1.29	< 2	310	< 0.5	< 2	0.14	< 0.5	5	16	6	1.72	< 10	10	0.02	< 10	0.33
L19500E 18775N	201	202	< 5	-----	< 0.2	1.15	2	210	< 0.5	< 2	0.11	< 0.5	7	14	17	2.20	< 10	60	0.06	< 10	0.24
L19500E 18800N	201	202	< 5	-----	< 0.2	1.95	6	170	< 0.5	< 2	0.09	< 0.5	8	27	12	3.00	< 10	30	0.04	< 10	0.44
L19500E 18825N	201	202	< 5	-----	0.4	2.01	8	190	< 0.5	< 2	0.13	< 0.5	9	28	17	3.50	< 10	30	0.05	10	0.44
L19500E 18850N	201	202	< 5	-----	1.2	2.47	10	250	< 0.5	< 2	0.21	< 0.5	10	34	14	3.14	< 10	170	0.04	10	0.46
L19500E 18875N	201	202	< 5	-----	0.4	1.13	16	100	< 0.5	< 2	0.12	< 0.5	4	25	12	2.78	< 10	40	0.05	10	0.22
L19500E 18900N	201	202	< 5	-----	1.4	1.27	62	520	< 0.5	< 2	0.67	15.0	4	60	54	2.39	< 10	830	0.08	30	0.14
L19500E 19000N	201	202	20	-----	4.0	0.73	76	290	0.5	< 2	1.47	4.5	9	62	67	2.05	< 10	1660	0.05	10	0.30
L19500E 19050N	201	202	20	-----	2.2	0.67	62	340	0.5	< 2	1.84	3.0	7	36	66	1.56	< 10	1040	0.06	10	0.36
L19500E 19075N	201	202	15	-----	2.4	0.71	30	410	0.5	< 2	1.96	3.0	7	33	56	1.33	< 10	870	0.06	< 10	0.48
L19500E 19200N	201	202	15	-----	0.4	1.21	80	420	< 0.5	< 2	0.34	0.5	5	20	17	1.96	< 10	250	0.07	10	0.24
L19500E 19275N	201	202	< 5	-----	< 0.2	0.86	70	240	< 0.5	< 2	0.17	< 0.5	9	14	10	1.85	< 10	50	0.05	< 10	0.26
L19500E 19325N	201	202	5	-----	0.2	0.87	36	230	< 0.5	< 2	0.67	0.5	7	20	21	2.13	< 10	180	0.05	10	0.38
L19500E 19350N	201	202	5	-----	0.2	1.16	26	470	0.5	< 2	0.30	1.5	9	27	29	2.60	< 10	190	0.07	10	0.45
L19500E 19375N	201	202	< 5	-----	< 0.2	1.47	12	310	< 0.5	< 2	0.15	< 0.5	7	25	20	2.46	< 10	30	0.04	10	0.44
L19500E 19400N	201	202	10	-----	< 0.2	1.22	6	350	< 0.5	< 2	0.25	< 0.5	7	23	19	2.10	< 10	30	0.04	10	0.43
L19500E 19425N	201	202	< 5	-----	< 0.2	1.59	6	330	< 0.5	< 2	0.24	< 0.5	8	27	21	2.55	< 10	30	0.04	10	0.50
L19500E 19450N	201	202	< 5	-----	0.2	1.24	2	180	< 0.5	< 2	0.15	< 0.5	6	28	15	2.25	< 10	30	0.04	10	0.40
L19500E 19475N	201	202	< 5	-----	< 0.2	1.43	6	280	< 0.5	< 2	0.23	0.5	7	24	15	2.43	< 10	20	0.04	10	0.45
L19500E 19500N-A	201	202	< 5	-----	< 0.2	1.66	6	270	0.5	< 2	1.20	0.5	11	49	30	2.99	< 10	180	0.04	10	0.81
L19500E 19500N-B	201	202	< 5	-----	< 0.2	1.62	12	310	0.5	< 2	0.30	0.5	10	36	26	2.86	< 10	50	0.04	10	0.60
L19500E 19525N	201	202	< 5	-----	0.2	1.22	18	230	< 0.5	< 2	0.10	1.0	8	21	15	2.68	< 10	20	0.05	10	0.27
L19500E 19550N	201	202	5	-----	< 0.2	0.93	30	380	< 0.5	< 2	0.11	0.5	6	16	25	2.58	< 10	60	0.06	10	0.22
L19500E 19575N	201	202	25	-----	< 0.2	1.56	408	180	< 0.5	< 2	0.11	1.0	7	27	17	3.54	< 10	10	0.04	10	0.39
L19500E 19600N	201	202	5	-----	0.2	0.63	110	230	< 0.5	< 2	0.08	0.5	7	12	24	3.02	< 10	20	0.08	10	0.10
L19500E 19625N	201	202	< 5	-----	0.2	1.00	12	330	< 0.5	< 2	0.21	0.5	7	20	23	2.37	< 10	60	0.05	< 10	0.38
L19500E 19650N	201	202	5	-----	< 0.2	0.92	10	230	< 0.5	< 2	0.26	0.5	7	21	20	2.22	< 10	90	0.06	< 10	0.43
L19500E 19675N	201	202	35	-----	0.2	0.85	90	460	< 0.5	< 2	0.60	2.5	10	16	27	2.08	< 10	410	0.05	10	0.34
L19600E 18500N	201	202	< 5	-----	0.2	0.97	6	200	< 0.5	< 2	1.63	0.5	7	24	20	1.63	< 10	190	0.04	10	0.50
L19600E 18525N	201	202	< 5	-----	< 0.2	1.42	< 2	520	< 0.5	< 2	0.97	< 0.5	7	29	25	2.33	< 10	110	0.04	10	0.46
L19600E 18550N	201	202	< 5	-----	0.2	1.76	16	380	0.5	< 2	0.44	3.0	11	37	34	2.69	< 10	120	0.09	10	0.40

CERTIFICATION:



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT

Page: 1-B
Total: 5
Certificate Date: 06-AUG-97
Invoice No.: 19734319
P.O. Number:
Account: OQN

CERTIFICATE OF ANALYSIS A9734319

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L19500E 18525N	201	202	165	4	0.01	36	850	6	< 2	1	74	0.01	< 10	< 10	47	< 10	116
L19500E 18550N	201	202	145	4	< 0.01	23	200	6	< 2	2	11	0.01	< 10	< 10	42	< 10	104
L19500E 18575N	201	202	130	< 1	< 0.01	18	140	8	< 2	2	9	0.03	< 10	< 10	43	< 10	84
L19500E 18600N	201	202	260	3	< 0.01	26	220	8	< 2	2	11	0.02	< 10	< 10	75	< 10	114
L19500E 18625N	201	202	115	1	< 0.01	25	170	8	< 2	2	8	0.01	< 10	< 10	32	< 10	80
L19500E 18650N	201	202	165	1	< 0.01	24	250	8	< 2	3	15	0.04	< 10	< 10	58	< 10	76
L19500E 18675N	201	202	170	< 1	< 0.01	16	140	10	< 2	2	10	0.03	< 10	< 10	31	< 10	54
L19500E 18700N	201	202	195	< 1	< 0.01	19	140	10	< 2	2	10	0.02	< 10	< 10	33	< 10	52
L19500E 18725N	201	202	200	< 1	< 0.01	18	160	8	< 2	2	7	0.01	< 10	< 10	23	< 10	52
L19500E 18750N	201	202	310	< 1	< 0.01	11	80	6	< 2	1	11	0.01	< 10	< 10	25	< 10	38
L19500E 18775N	201	202	150	1	< 0.01	25	210	8	< 2	2	11	0.01	< 10	< 10	25	< 10	120
L19500E 18800N	201	202	200	< 1	< 0.01	18	170	10	< 2	3	9	0.04	< 10	< 10	48	< 10	60
L19500E 18825N	201	202	370	< 1	< 0.01	20	670	12	< 2	3	18	0.04	< 10	< 10	62	< 10	96
L19500E 18850N	201	202	240	< 1	< 0.01	27	300	10	< 2	3	17	0.05	< 10	< 10	57	< 10	68
L19500E 18875N	201	202	145	3	< 0.01	25	550	8	< 2	1	12	0.04	< 10	< 10	92	< 10	106
L19500E 18900N	201	202	135	39	< 0.01	107	870	14	16	3	74	0.02	< 10	< 10	1240	< 10	830
L19500E 19000N	201	202	310	9	< 0.01	135	2340	18	6	6	51	< 0.01	< 10	< 10	120	< 10	704
L19500E 19050N	201	202	295	3	< 0.01	89	1510	24	4	3	48	< 0.01	< 10	< 10	75	< 10	380
L19500E 19075N	201	202	375	2	< 0.01	58	1270	20	2	3	51	< 0.01	< 10	< 10	67	< 10	196
L19500E 19200N	201	202	140	4	< 0.01	18	740	22	2	3	24	< 0.01	< 10	< 10	53	< 10	114
L19500E 19275N	201	202	470	5	< 0.01	13	540	18	< 2	1	14	< 0.01	< 10	< 10	36	< 10	100
L19500E 19325N	201	202	275	1	< 0.01	22	580	26	2	3	33	0.02	< 10	< 10	37	< 10	154
L19500E 19350N	201	202	405	2	< 0.01	25	560	34	2	5	31	0.04	< 10	< 10	46	< 10	152
L19500E 19375N	201	202	180	1	< 0.01	18	430	14	2	3	18	0.04	< 10	< 10	43	< 10	78
L19500E 19400N	201	202	195	1	< 0.01	19	540	10	< 2	3	23	0.05	< 10	< 10	37	< 10	76
L19500E 19425N	201	202	245	< 1	< 0.01	20	400	10	< 2	4	22	0.06	< 10	< 10	46	< 10	68
L19500E 19450N	201	202	150	1	< 0.01	17	340	10	< 2	3	17	0.06	< 10	< 10	46	< 10	98
L19500E 19475N	201	202	235	< 1	< 0.01	17	510	10	< 2	3	21	0.05	< 10	< 10	45	< 10	70
L19500E 19500N-A	201	202	170	2	< 0.01	44	900	8	< 2	6	46	0.02	< 10	< 10	67	< 10	128
L19500E 19500N-B	201	202	290	1	< 0.01	25	500	16	< 2	5	27	0.06	< 10	< 10	51	< 10	114
L19500E 19525N	201	202	395	3	< 0.01	20	420	22	< 2	2	16	0.04	< 10	< 10	54	< 10	106
L19500E 19550N	201	202	175	6	< 0.01	25	370	20	2	3	32	0.01	< 10	< 10	34	< 10	134
L19500E 19575N	201	202	205	3	< 0.01	30	410	30	4	3	15	0.03	< 10	< 10	54	< 10	150
L19500E 19600N	201	202	170	6	< 0.01	33	690	38	6	1	71	0.01	< 10	< 10	34	< 10	204
L19500E 19625N	201	202	205	< 1	< 0.01	22	530	12	< 2	3	33	0.02	< 10	< 10	36	< 10	80
L19500E 19650N	201	202	200	1	< 0.01	20	750	12	< 2	2	28	0.03	< 10	< 10	35	< 10	82
L19500E 19675N	201	202	450	4	< 0.01	42	660	20	28	4	65	0.01	< 10	< 10	35	< 10	240
L19600E 18500N	201	202	350	1	< 0.01	26	840	4	< 2	3	52	0.01	< 10	< 10	35	< 10	84
L19600E 18525N	201	202	175	< 1	< 0.01	30	750	6	< 2	4	43	0.01	< 10	< 10	37	< 10	54
L19600E 18550N	201	202	395	11	< 0.01	56	830	12	4	4	27	0.01	< 10	< 10	193	< 10	290

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project:
 Comments: ATTN:RICK DIMENT

Page :2-A
 Total F :5
 Certificate Date: 06-AUG-97
 Invoice No. :19734319
 P.O. Number :
 Account :OQN

CERTIFICATE OF ANALYSIS A9734319

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
	FA+AA	FA+AA																			
L19600E 18575N	201	202	< 5	-----	0.2	1.95	6	420	0.5	< 2	0.28	0.5	13	33	21	2.90	< 10	40	0.07	10	0.41
L19600E 18600N	201	202	< 5	-----	< 0.2	1.69	2	320	0.5	< 2	0.70	< 0.5	9	27	15	2.62	< 10	20	0.05	10	0.40
L19600E 18625N	201	202	< 5	-----	< 0.2	1.54	2	300	0.5	< 2	0.70	< 0.5	11	24	17	2.80	< 10	40	0.05	10	0.33
L19600E 18650N	201	202	< 5	-----	0.2	1.67	6	320	0.5	< 2	0.44	< 0.5	9	23	12	2.33	< 10	20	0.06	10	0.35
L19600E 18675N	201	202	< 5	-----	0.2	1.31	< 2	190	< 0.5	< 2	0.13	< 0.5	7	19	10	2.22	< 10	20	0.06	< 10	0.31
L19600E 18700N	201	202	< 5	-----	< 0.2	1.55	4	360	< 0.5	< 2	0.20	< 0.5	7	23	13	2.39	< 10	10	0.06	10	0.38
L19600E 18725N	201	202	< 5	-----	0.2	1.18	2	230	< 0.5	< 2	0.16	< 0.5	6	16	15	2.07	< 10	20	0.08	10	0.22
L19600E 18750N	201	202	< 5	-----	< 0.2	1.38	2	240	< 0.5	< 2	0.13	< 0.5	7	21	9	2.23	< 10	20	0.03	< 10	0.36
L19600E 18775N	201	202	< 5	-----	< 0.2	1.05	4	200	< 0.5	< 2	0.12	< 0.5	6	16	9	2.42	< 10	20	0.05	< 10	0.22
L19600E 18800N	201	202	< 5	-----	< 0.2	1.33	8	170	< 0.5	< 2	0.13	< 0.5	5	19	11	2.15	< 10	40	0.03	< 10	0.30
L19600E 18975N	201	202	20	-----	< 0.2	0.51	252	150	< 0.5	< 2	0.28	0.5	6	19	22	2.03	< 10	90	0.09	10	0.15
L19600E 19025N	201	202	60	-----	1.2	0.79	132	650	0.5	< 2	1.12	3.5	10	22	50	2.13	< 10	540	0.07	10	0.22
L19600E 19150N	201	202	35	-----	1.0	0.98	130	690	< 0.5	< 2	1.43	0.5	8	22	29	1.83	< 10	520	0.05	10	0.40
L19600E 19175N	201	202	35	-----	0.2	0.93	44	490	0.5	< 2	0.92	< 0.5	5	18	29	1.58	< 10	340	0.06	10	0.34
L19600E 19200N	201	202	25	-----	0.2	0.81	112	390	0.5	< 2	0.90	0.5	7	14	21	2.38	< 10	220	0.09	10	0.28
L19600E 19250N	201	202	25	-----	1.0	1.05	36	340	0.5	< 2	1.33	2.0	10	22	38	2.08	< 10	460	0.06	10	0.41
L19600E 19300N	201	202	< 5	-----	0.2	1.13	18	450	0.5	< 2	0.30	1.0	10	27	22	2.42	< 10	120	0.05	10	0.41
L19600E 19325N	201	202	5	-----	0.2	1.25	14	540	< 0.5	< 2	0.22	< 0.5	7	25	25	2.41	< 10	110	0.04	10	0.43
L19600E 19350N	201	202	< 5	-----	< 0.2	1.20	6	400	< 0.5	< 2	0.21	< 0.5	7	22	20	2.00	< 10	40	0.03	10	0.39
L19600E 19375N	201	202	< 5	-----	< 0.2	1.48	10	400	< 0.5	< 2	0.24	< 0.5	7	25	19	2.33	< 10	30	0.05	10	0.43
L19600E 19400N	201	202	< 5	-----	< 0.2	1.24	8	350	< 0.5	< 2	0.26	< 0.5	7	24	25	2.28	< 10	30	0.03	10	0.45
L19600E 19425N	201	202	< 5	-----	< 0.2	1.27	6	420	< 0.5	< 2	0.25	< 0.5	9	21	21	2.15	< 10	10	0.04	10	0.38
L19600E 19450N	201	202	< 5	-----	< 0.2	1.41	6	350	< 0.5	< 2	0.21	< 0.5	7	29	23	2.42	< 10	30	0.03	10	0.50
L19600E 19475N	201	202	< 5	-----	0.2	1.36	8	200	< 0.5	< 2	0.06	< 0.5	5	22	12	2.34	< 10	20	0.03	< 10	0.29
L19600E 19500N	201	202	< 5	-----	0.2	1.24	18	220	< 0.5	< 2	0.06	< 0.5	5	22	11	2.78	< 10	10	0.03	< 10	0.28
L19600E 19525N	201	202	< 5	-----	< 0.2	2.13	16	280	0.5	< 2	0.10	< 0.5	9	34	22	3.14	< 10	40	0.04	10	0.54
L19600E 19550N	201	202	< 5	-----	< 0.2	1.79	10	310	0.5	< 2	0.21	< 0.5	10	35	28	2.79	< 10	40	0.04	10	0.57
L19600E 19575N	201	202	5	-----	< 0.2	1.90	10	180	< 0.5	< 2	0.13	< 0.5	8	28	20	3.12	< 10	10	0.05	10	0.43
L19600E 19600N	201	202	< 5	-----	0.2	1.25	22	190	< 0.5	< 2	0.10	0.5	9	22	35	3.17	< 10	30	0.05	10	0.34
L19600E 19625N	201	202	10	-----	0.2	1.13	242	200	0.5	2	0.11	2.5	14	21	36	3.57	< 10	70	0.06	10	0.26
L19600E 19650N	201	202	15	-----	0.4	1.11	112	200	0.5	< 2	0.18	1.5	9	24	27	2.58	< 10	110	0.05	10	0.36
L19700E 18525N	201	202	< 5	-----	< 0.2	2.11	6	510	0.5	< 2	0.78	< 0.5	13	38	25	2.87	< 10	30	0.07	10	0.43
L19700E 18550N	201	202	< 5	-----	< 0.2	2.48	< 2	530	< 0.5	< 2	0.57	< 0.5	18	59	19	4.22	< 10	20	0.08	< 10	0.77
L19700E 18575N	201	202	< 5	-----	< 0.2	2.28	10	370	< 0.5	< 2	0.35	< 0.5	13	43	18	3.23	< 10	10	0.08	10	0.56
L19700E 18600N	201	202	< 5	-----	0.2	2.40	2	700	< 0.5	< 2	0.50	< 0.5	15	54	17	3.10	< 10	40	0.06	10	0.46
L19700E 18625N	201	202	< 5	-----	< 0.2	1.44	10	250	0.5	< 2	0.60	< 0.5	10	26	22	2.62	< 10	50	0.04	10	0.40
L19700E 18650N	201	202	< 5	-----	< 0.2	1.59	8	270	< 0.5	< 2	0.25	< 0.5	8	27	15	2.72	< 10	40	0.03	< 10	0.38
L19700E 18675N	201	202	< 5	-----	< 0.2	1.84	6	340	0.5	< 2	0.41	< 0.5	10	29	18	2.70	< 10	20	0.04	10	0.44
L19700E 18700N	201	202	< 5	-----	0.2	2.31	2	240	< 0.5	< 2	0.11	< 0.5	9	31	12	3.23	< 10	20	0.04	10	0.46
L19700E 18725N	201	202	< 5	-----	0.2	2.34	10	190	< 0.5	< 2	0.07	< 0.5	9	32	11	3.24	< 10	30	0.04	< 10	0.45

CERTIFICATION: _____



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN:RICK DIMENT

Page : 2-B
Total P : 5
Certific. Date: 06-AUG-97
Invoice No. : 19734319
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9734319

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L19600E 18575N	201	202	505	4 < 0.01		39	530	12 < 2		5	22	0.02	< 10	< 10	96	< 10	110
L19600E 18600N	201	202	315	1 < 0.01		28	550	8 < 2		5	26	0.02	< 10	< 10	44	< 10	64
L19600E 18625N	201	202	415	2 < 0.01		32	930	10 < 2		5	26	0.01	< 10	< 10	38	< 10	80
L19600E 18650N	201	202	365	1 < 0.01		21	290	8 < 2		4	18	0.02	< 10	< 10	38	< 10	46
L19600E 18675N	201	202	200	< 1 < 0.01		15	190	8 < 2		1	9	0.03	< 10	< 10	35	< 10	48
L19600E 18700N	201	202	180	< 1 < 0.01		17	160	10 < 2		3	14	0.03	< 10	< 10	41	< 10	50
L19600E 18725N	201	202	120	1 < 0.01		17	240	8 < 2		2	13	0.01	< 10	< 10	35	< 10	56
L19600E 18750N	201	202	285	< 1 < 0.01		14	240	8 < 2		1	10	0.02	< 10	< 10	41	< 10	54
L19600E 18775N	201	202	265	< 1 < 0.01		15	290	8 < 2		2	10	0.01	< 10	< 10	35	< 10	38
L19600E 18800N	201	202	120	1 < 0.01		15	320	8 < 2		1	12	0.02	< 10	< 10	40	< 10	44
L19600E 18975N	201	202	165	3 < 0.01		26	870	46 < 8		2	34	< 0.01	< 10	< 10	39	< 10	156
L19600E 19025N	201	202	715	3 < 0.01		49	1090	32 < 10		4	69	< 0.01	< 10	< 10	82	< 10	260
L19600E 19150N	201	202	550	4 < 0.01		27	1040	24 < 4		4	65	< 0.01	< 10	< 10	75	< 10	154
L19600E 19175N	201	202	215	1 < 0.01		26	800	12 < 2		4	45	< 0.01	< 10	< 10	40	< 10	84
L19600E 19200N	201	202	325	2 < 0.01		23	700	16 < 2		3	39	< 0.01	< 10	< 10	41	< 10	144
L19600E 19250N	201	202	445	3 < 0.01		40	940	22 < 4		4	52	0.01	< 10	< 10	57	< 10	256
L19600E 19300N	201	202	345	2 < 0.01		21	580	30 < 2		4	32	0.05	< 10	< 10	48	< 10	152
L19600E 19325N	201	202	220	2 < 0.01		19	410	18 < 4		4	28	0.05	< 10	< 10	46	< 10	92
L19600E 19350N	201	202	185	1 < 0.01		16	400	8 < 2		3	22	0.04	< 10	< 10	38	< 10	56
L19600E 19375N	201	202	170	1 < 0.01		18	510	12 < 2		3	22	0.05	< 10	< 10	44	< 10	68
L19600E 19400N	201	202	245	1 < 0.01		20	570	8 < 2		4	21	0.05	< 10	< 10	41	< 10	70
L19600E 19425N	201	202	315	1 < 0.01		17	490	8 < 2		3	19	0.03	< 10	< 10	41	< 10	64
L19600E 19450N	201	202	225	1 < 0.01		18	410	8 < 2		4	19	0.05	< 10	< 10	47	< 10	82
L19600E 19475N	201	202	145	1 < 0.01		13	240	10 < 2		2	9	0.04	< 10	< 10	54	< 10	54
L19600E 19500N	201	202	150	2 < 0.01		14	340	10 < 2		2	9	0.04	< 10	< 10	64	< 10	52
L19600E 19525N	201	202	210	1 < 0.01		23	220	16 < 2		3	14	0.06	< 10	< 10	63	< 10	84
L19600E 19550N	201	202	230	1 < 0.01		22	140	10 < 2		6	26	0.08	< 10	< 10	58	< 10	78
L19600E 19575N	201	202	205	2 < 0.01		21	280	16 < 4		3	15	0.06	< 10	< 10	60	< 10	94
L19600E 19600N	201	202	245	5 < 0.01		35	310	26 < 6		3	18	0.04	< 10	< 10	47	< 10	204
L19600E 19625N	201	202	785	5 < 0.01		39	490	46 < 12		3	22	0.02	< 10	< 10	46	< 10	284
L19600E 19650N	201	202	350	3 < 0.01		30	580	28 < 8		3	20	0.03	< 10	< 10	38	< 10	198
L19700E 18525N	201	202	630	< 1 < 0.01		32	500	8 < 2		6	37	0.03	< 10	< 10	56	< 10	58
L19700E 18550N	201	202	365	1 < 0.01		42	690	6 < 2		5	32	0.06	< 10	< 10	83	< 10	74
L19700E 18575N	201	202	255	1 < 0.01		31	510	6 < 2		4	24	0.03	< 10	< 10	65	< 10	64
L19700E 18600N	201	202	855	< 1 < 0.01		37	660	10 < 2		5	32	0.03	< 10	< 10	64	< 10	60
L19700E 18625N	201	202	370	< 1 < 0.01		31	1050	8 < 2		6	29	0.02	< 10	< 10	41	< 10	56
L19700E 18650N	201	202	185	1 < 0.01		28	670	8 < 2		3	32	0.01	< 10	< 10	46	< 10	56
L19700E 18675N	201	202	295	< 1 < 0.01		25	780	10 < 2		5	24	0.02	< 10	< 10	52	< 10	64
L19700E 18700N	201	202	260	1 < 0.01		19	250	10 < 2		3	10	0.03	< 10	< 10	59	< 10	62
L19700E 18725N	201	202	295	1 < 0.01		16	320	10 < 2		3	8	0.04	< 10	< 10	56	< 10	58

CERTIFICATION: _____



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
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Project:
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Page: :3-A
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CERTIFICATE OF ANALYSIS

A9734319

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	FA+AA	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L19700E 18750N	201	202	< 5	-----	< 0.2	2.45	10	220	0.5	< 2	0.10	< 0.5	12	30	15	4.09	< 10	30	0.06	10	0.39
L19700E 18775N	201	202	< 5	-----	< 0.2	1.24	8	110	0.5	< 2	0.22	< 0.5	16	21	47	3.43	< 10	80	0.08	10	0.24
L19700E 18825N	201	202	< 5	-----	0.2	1.20	18	370	0.5	< 2	0.55	< 0.5	15	41	27	3.20	< 10	150	0.13	30	0.39
L19700E 18850N	201	202	< 5	-----	< 0.2	1.03	16	190	1.0	< 2	0.18	< 0.5	15	13	34	3.69	< 10	100	0.10	10	0.10
L19700E 18875N	201	202	5	-----	1.0	0.86	14	360	1.5	< 2	1.01	< 0.5	14	12	37	3.46	< 10	340	0.10	10	0.48
L19700E 18975N	201	202	25	-----	< 0.2	0.63	260	300	< 0.5	< 2	0.49	< 0.5	6	10	19	2.15	< 10	30	0.13	< 10	0.20
L19700E 19050N	201	202	< 5	-----	< 0.2	1.17	6	220	< 0.5	< 2	0.11	< 0.5	9	15	25	2.63	< 10	10	0.17	< 10	0.25
L19700E 19075N	201	202	< 5	-----	< 0.2	0.83	8	200	< 0.5	< 2	0.08	< 0.5	4	13	11	1.76	< 10	10	0.09	10	0.19
L19700E 19150N	201	202	30	-----	0.8	1.24	40	400	< 0.5	< 2	0.18	< 0.5	5	14	19	1.68	< 10	290	0.18	< 10	0.13
L19700E 19275N	201	202	10	-----	0.2	1.31	22	210	< 0.5	< 2	0.13	< 0.5	6	26	19	2.48	< 10	130	0.03	10	0.37
L19700E 19300N	201	202	5	-----	< 0.2	1.59	12	310	0.5	< 2	0.19	0.5	9	32	24	2.79	< 10	90	0.04	10	0.50
L19700E 19325N	201	202	< 5	-----	0.4	1.41	20	330	0.5	< 2	0.09	2.5	8	28	25	2.87	< 10	70	0.05	10	0.32
L19700E 19350N	201	202	< 5	-----	0.2	1.39	8	360	< 0.5	< 2	0.10	< 0.5	5	21	13	2.23	< 10	40	0.04	10	0.33
L19700E 19375N	201	202	< 5	-----	0.4	1.27	32	560	0.5	< 2	0.05	0.5	5	19	22	3.03	< 10	60	0.08	10	0.23
L19700E 19400N	201	202	< 5	-----	0.8	1.37	10	460	< 0.5	< 2	0.07	< 0.5	3	19	9	2.53	< 10	20	0.06	10	0.14
L19700E 19425N	201	202	< 5	-----	0.2	2.79	8	400	< 0.5	< 2	0.10	< 0.5	10	37	15	3.06	< 10	30	0.05	10	0.49
L19700E 19450N	201	202	< 5	-----	< 0.2	2.50	12	240	< 0.5	< 2	0.09	< 0.5	9	36	18	3.03	< 10	40	0.06	10	0.47
L19700E 19475N	201	202	< 5	-----	< 0.2	1.87	6	130	< 0.5	< 2	0.11	< 0.5	5	28	8	2.81	< 10	30	0.04	10	0.24
L19700E 19500N	201	202	< 5	-----	< 0.2	1.53	10	130	< 0.5	< 2	0.10	< 0.5	7	30	15	3.02	< 10	50	0.05	10	0.36
L19700E 19525N	201	202	< 5	-----	0.2	1.29	38	420	0.5	< 2	0.10	< 0.5	9	29	36	3.77	< 10	140	0.11	20	0.28
L19700E 19600N	201	202	50	-----	1.2	1.07	560	680	1.5	< 2	0.15	6.5	11	23	53	3.72	< 10	310	0.12	40	0.23
L19700E 19625N	201	202	35	-----	0.8	0.76	218	660	0.5	< 2	0.13	5.0	7	21	53	2.94	< 10	190	0.11	30	0.20
L19700E 19650N	201	202	30	-----	0.2	1.23	34	410	< 0.5	< 2	0.78	2.5	7	25	26	2.22	< 10	510	0.05	10	0.40
L19800E 18500N	201	202	< 5	-----	0.2	1.26	6	350	< 0.5	< 2	0.57	< 0.5	7	21	16	2.16	< 10	100	0.05	10	0.36
L19800E 18525N	201	202	< 5	-----	0.2	1.47	2	400	0.5	< 2	0.36	< 0.5	6	23	13	2.25	< 10	70	0.04	10	0.42
L19800E 18550N	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
L19800E 18575N	201	202	< 5	-----	0.6	0.84	< 2	310	< 0.5	< 2	1.67	< 0.5	6	15	21	1.58	< 10	220	0.04	10	0.34
L19800E 18625N	201	202	< 5	-----	< 0.2	2.04	8	390	0.5	< 2	0.70	< 0.5	9	33	18	2.85	< 10	30	0.06	10	0.49
L19800E 18650N	201	202	< 5	-----	0.2	2.26	4	370	0.5	< 2	0.57	< 0.5	9	32	14	2.71	< 10	40	0.06	10	0.47
L19800E 18675N	201	202	< 5	-----	0.2	2.38	4	500	0.5	< 2	0.53	< 0.5	10	34	17	2.87	< 10	50	0.10	10	0.45
L19800E 18700N	201	202	< 5	-----	< 0.2	2.39	12	290	0.5	< 2	0.28	< 0.5	9	33	12	2.82	< 10	40	0.05	10	0.45
L19800E 18725N	201	202	< 5	-----	< 0.2	1.07	8	150	< 0.5	< 2	0.15	< 0.5	3	16	7	1.60	< 10	< 10	0.04	10	0.17
L19800E 18750N	201	202	< 5	-----	0.2	2.34	< 2	320	< 0.5	< 2	0.21	< 0.5	14	30	6	2.85	< 10	20	0.03	10	0.40
L19800E 18775N	201	202	< 5	-----	< 0.2	2.68	12	320	1.0	< 2	0.79	< 0.5	12	41	25	3.34	< 10	80	0.09	30	0.51
L19800E 18800N	201	202	< 5	-----	0.2	1.17	12	190	< 0.5	< 2	0.17	< 0.5	7	38	11	3.25	< 10	10	0.13	10	0.35
L19800E 18825N	201	202	< 5	-----	< 0.2	0.90	8	220	< 0.5	< 2	0.20	< 0.5	6	14	16	2.17	< 10	80	0.08	10	0.17
L19800E 18850N	201	202	< 5	-----	< 0.2	0.61	8	110	< 0.5	< 2	0.13	< 0.5	7	11	31	2.33	< 10	30	0.08	10	0.08
L19800E 18900N	201	202	< 5	-----	0.6	0.64	8	260	0.5	< 2	1.44	< 0.5	10	10	36	2.76	< 10	240	0.11	10	0.21
L19800E 18925N	201	202	< 5	-----	0.2	0.69	< 2	290	< 0.5	< 2	2.53	< 0.5	6	11	16	1.10	< 10	220	0.04	< 10	0.34
L19800E 18950N	201	202	< 5	-----	0.6	0.63	< 2	470	0.5	< 2	2.92	< 0.5	6	10	23	1.23	< 10	390	0.04	< 10	0.43

CERTIFICATION:

Hart Bunker



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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN:RICK DIMENT

Page : 3-B
 Total P : 5
 Certificate : 06-AUG-97
 Invoice No. : 19734319
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9734319

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L19700E 18750N	201 202	325	1 < 0.01	29	500	12	< 2	3	12	0.03	< 10	< 10	45	< 10	66	
L19700E 18775N	201 202	365	3 < 0.01	44	1030	12	2	3	16	0.01	< 10	< 10	41	< 10	184	
L19700E 18825N	201 202	550	2 < 0.01	29	700	18	2	6	30	0.05	< 10	< 10	56	< 10	140	
L19700E 18850N	201 202	660	3 < 0.01	40	370	14	2	6	14	< 0.01	< 10	< 10	21	< 10	128	
L19700E 18875N	201 202	625	2 < 0.01	54	290	14	2	12	105	< 0.01	< 10	< 10	14	< 10	94	
L19700E 18975N	201 202	405	2 < 0.01	15	300	16	6	1	39	< 0.01	< 10	< 10	22	< 10	76	
L19700E 19050N	201 202	115	1 < 0.01	23	260	18	< 2	2	25	< 0.01	< 10	< 10	24	< 10	78	
L19700E 19075N	201 202	105	1 < 0.01	11	150	8	2	1	13	0.01	< 10	< 10	32	< 10	52	
L19700E 19150N	201 202	135	4 < 0.01	13	770	18	2	3	30	< 0.01	< 10	< 10	29	< 10	64	
L19700E 19275N	201 202	170	1 < 0.01	18	450	26	6	3	20	0.04	< 10	< 10	50	< 10	108	
L19700E 19300N	201 202	285	1 < 0.01	21	390	20	6	4	22	0.05	< 10	< 10	56	< 10	100	
L19700E 19325N	201 202	245	3 < 0.01	23	540	54	8	4	18	0.04	< 10	< 10	58	< 10	162	
L19700E 19350N	201 202	120	1 < 0.01	13	280	12	< 2	2	16	0.03	< 10	< 10	47	< 10	56	
L19700E 19375N	201 202	130	9 < 0.01	18	400	44	12	2	28	0.01	< 10	< 10	46	< 10	160	
L19700E 19400N	201 202	115	4 < 0.01	10	290	16	2	2	17	0.05	< 10	< 10	83	< 10	90	
L19700E 19425N	201 202	270	1 < 0.01	22	200	14	2	4	13	0.07	< 10	< 10	67	< 10	74	
L19700E 19450N	201 202	235	1 < 0.01	21	140	12	< 2	5	15	0.07	< 10	< 10	60	< 10	64	
L19700E 19475N	201 202	205	1 < 0.01	10	330	14	2	2	14	0.07	< 10	< 10	66	< 10	46	
L19700E 19500N	201 202	210	< 1 < 0.01	20	340	16	2	3	14	0.06	< 10	< 10	56	< 10	96	
L19700E 19525N	201 202	265	6 < 0.01	26	600	50	16	4	35	0.03	< 10	< 10	64	< 10	228	
L19700E 19600N	201 202	350	7 < 0.01	44	540	108	20	6	86	0.02	< 10	< 10	55	< 10	390	
L19700E 19625N	201 202	175	8 < 0.01	34	570	80	18	5	90	0.02	< 10	< 10	56	< 10	328	
L19700E 19650N	201 202	185	3 < 0.01	40	670	18	28	5	57	0.04	< 10	< 10	54	< 10	452	
L19800E 18500N	201 202	150	3 < 0.01	30	410	6	< 2	4	21	0.01	< 10	< 10	36	< 10	104	
L19800E 18525N	201 202	225	1 < 0.01	26	340	10	< 2	4	16	0.01	< 10	< 10	40	< 10	80	
L19800E 18550N	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	
L19800E 18575N	201 202	270	2 < 0.01	29	770	6	< 2	3	37	0.01	< 10	< 10	27	< 10	116	
L19800E 18625N	201 202	290	1 < 0.01	30	640	10	2	6	27	0.03	< 10	< 10	53	< 10	66	
L19800E 18650N	201 202	610	< 1 < 0.01	24	310	8	< 2	4	24	0.04	< 10	< 10	56	< 10	56	
L19800E 18675N	201 202	570	1 < 0.01	35	950	10	2	5	25	0.04	< 10	< 10	55	< 10	80	
L19800E 18700N	201 202	525	< 1 < 0.01	22	270	10	2	5	18	0.06	< 10	< 10	59	< 10	58	
L19800E 18725N	201 202	130	1 < 0.01	8	130	8	< 2	1	13	0.06	< 10	< 10	44	< 10	28	
L19800E 18750N	201 202	905	< 1 < 0.01	16	260	10	< 2	3	16	0.07	< 10	< 10	67	< 10	60	
L19800E 18775N	201 202	365	1 < 0.01	33	1130	10	< 2	11	36	0.05	< 10	< 10	69	< 10	86	
L19800E 18800N	201 202	305	1 < 0.01	12	650	18	2	3	12	0.11	< 10	< 10	86	< 10	52	
L19800E 18825N	201 202	130	1 < 0.01	16	230	8	< 2	2	13	0.02	< 10	< 10	33	< 10	46	
L19800E 18850N	201 202	90	3 < 0.01	26	370	6	6	1	10	0.01	< 10	< 10	36	< 10	98	
L19800E 18900N	201 202	290	4 < 0.01	39	790	12	2	4	33	< 0.01	< 10	< 10	18	< 10	108	
L19800E 18925N	201 202	355	< 1 < 0.01	13	780	6	< 2	2	51	0.01	< 10	< 10	18	< 10	46	
L19800E 18950N	201 202	350	< 1 < 0.01	16	650	4	2	3	57	< 0.01	< 10	< 10	16	< 10	34	

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT

Page : 4-A
Total P : 5
Certificate No.: 06-AUG-97
Invoice No. : 19734319
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9734319

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA	FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L19800E 18975N	201	202	< 5	-----	0.2	1.09	4	420	< 0.5	< 2	0.14	1.0	4	12	15	1.59	< 10	30	0.05	< 10	0.11
L19800E 19000N	201	202	< 5	-----	< 0.2	1.89	34	200	< 0.5	< 2	0.08	< 0.5	7	23	12	2.89	< 10	20	0.06	< 10	0.28
L19800E 19025N	201	202	5	-----	0.2	2.29	38	160	0.5	< 2	0.08	< 0.5	9	27	14	3.69	< 10	40	0.08	10	0.27
L19800E 19050N	201	202	5	-----	< 0.2	1.83	64	170	< 0.5	< 2	0.09	< 0.5	7	25	14	3.14	< 10	10	0.09	10	0.30
L19800E 19075N	201	202	210	-----	0.2	1.03	1675	380	0.5	2	0.05	< 0.5	10	13	42	4.02	< 10	50	0.18	< 10	0.18
L19800E 19100N	201	202	90	-----	< 0.2	1.00	510	290	< 0.5	< 2	0.10	< 0.5	4	14	37	2.42	< 10	60	0.12	< 10	0.08
L19800E 19125N	201	202	30	-----	< 0.2	0.76	300	230	< 0.5	< 2	0.08	< 0.5	9	12	25	2.44	< 10	20	0.12	< 10	0.16
L19800E 19175N	201	202	5	-----	0.2	1.20	30	170	< 0.5	< 2	0.22	< 0.5	7	21	16	2.26	< 10	90	0.09	10	0.37
L19800E 19225N	201	202	5	-----	0.2	1.33	16	430	< 0.5	< 2	0.21	< 0.5	7	23	25	2.21	< 10	80	0.06	10	0.33
L19800E 19250N	201	202	< 5	-----	0.2	1.34	26	450	0.5	< 2	0.16	0.5	7	25	19	2.75	< 10	40	0.06	20	0.27
L19800E 19275N	201	202	5	-----	0.2	1.24	24	350	< 0.5	< 2	0.13	< 0.5	6	22	23	2.62	< 10	150	0.05	10	0.28
L19800E 19300N	201	202	< 5	-----	0.2	1.70	20	340	0.5	< 2	0.18	< 0.5	8	32	23	2.89	< 10	90	0.04	10	0.50
L19800E 19325N	201	202	5	-----	0.2	1.60	20	230	< 0.5	< 2	0.13	< 0.5	6	26	21	2.53	< 10	160	0.03	10	0.42
L19800E 19350N	201	202	< 5	-----	0.2	1.80	22	330	< 0.5	< 2	0.12	0.5	6	28	18	2.68	< 10	80	0.04	10	0.41
L19800E 19375N	201	202	< 5	-----	0.6	1.86	18	230	< 0.5	< 2	0.11	0.5	6	30	13	2.88	< 10	40	0.03	10	0.37
L19800E 19400N	201	202	< 5	-----	0.2	1.99	12	250	< 0.5	< 2	0.14	0.5	7	28	13	2.64	< 10	70	0.04	10	0.38
L19800E 19425N	201	202	< 5	-----	0.2	2.60	6	270	< 0.5	< 2	0.13	< 0.5	9	34	13	3.00	< 10	30	0.05	10	0.43
L19800E 19450N	201	202	< 5	-----	0.2	1.48	14	1960	< 0.5	< 2	0.12	< 0.5	6	24	25	2.42	< 10	60	0.11	10	0.30
L19800E 19475N	201	202	< 5	-----	0.2	1.30	14	600	< 0.5	< 2	0.17	< 0.5	7	22	22	2.38	< 10	30	0.07	10	0.34
L19800E 19500N	201	202	< 5	-----	0.6	1.07	18	850	< 0.5	< 2	0.08	1.0	3	16	30	1.70	< 10	110	0.07	20	0.12
L19800E 19525N	201	202	10	-----	0.4	0.69	114	680	< 0.5	< 2	0.03	1.5	4	12	42	2.26	< 10	80	0.10	20	0.06
L19800E 19550N	201	202	20	-----	1.2	1.00	198	680	< 0.5	< 2	0.11	2.0	5	19	32	2.54	< 10	220	0.12	30	0.21
L19800E 19575N	201	202	45	-----	1.6	1.43	328	880	0.5	< 2	0.12	4.0	13	23	45	3.15	< 10	440	0.15	30	0.21
L19800E 19600N	201	202	< 5	-----	0.2	0.94	48	410	0.5	< 2	0.27	6.0	12	21	31	3.76	< 10	50	0.09	20	0.33
L19900E 18525N	201	202	< 5	-----	0.2	1.53	12	220	< 0.5	< 2	0.18	0.5	6	20	16	2.35	< 10	70	0.03	10	0.31
L19900E 18550N	201	202	< 5	-----	< 0.2	1.89	12	110	< 0.5	< 2	0.10	< 0.5	6	27	9	3.66	< 10	40	0.04	< 10	0.41
L19900E 18575N	201	202	< 5	-----	1.2	1.52	4	570	0.5	< 2	0.40	0.5	24	26	28	2.54	< 10	150	0.05	10	0.40
L19900E 18600N	201	202	< 5	-----	0.2	1.24	8	150	< 0.5	< 2	0.10	< 0.5	6	20	16	2.49	< 10	30	0.06	10	0.33
L19900E 18625N	201	202	5	-----	< 0.2	1.53	8	330	< 0.5	< 2	0.30	< 0.5	7	24	13	2.10	< 10	30	0.04	10	0.41
L19900E 18650N	201	202	< 5	-----	0.2	2.21	6	410	0.5	< 2	0.32	< 0.5	12	32	15	2.74	< 10	40	0.08	10	0.44
L19900E 18675N	201	202	< 5	-----	0.2	1.80	4	300	< 0.5	< 2	0.20	< 0.5	7	37	11	2.61	< 10	30	0.08	10	0.51
L19900E 18700N	201	202	< 5	-----	< 0.2	2.26	14	280	0.5	< 2	0.20	< 0.5	10	48	13	3.28	< 10	10	0.11	10	0.61
L19900E 18725N	201	202	< 5	-----	0.2	1.80	6	200	< 0.5	< 2	0.17	< 0.5	5	26	9	2.60	< 10	10	0.07	10	0.36
L19900E 18750N	201	202	< 5	-----	0.2	1.68	8	190	< 0.5	< 2	0.18	< 0.5	5	25	7	3.04	< 10	< 10	0.06	10	0.38
L19900E 18775N	201	202	< 5	-----	< 0.2	0.79	< 2	180	< 0.5	< 2	0.21	< 0.5	2	13	7	1.00	< 10	20	0.07	10	0.11
L19900E 18800N	201	202	< 5	-----	< 0.2	1.15	6	130	< 0.5	< 2	0.14	< 0.5	4	19	5	2.05	< 10	10	0.05	10	0.29
L19900E 18825N	201	202	< 5	-----	0.2	0.64	6	140	< 0.5	< 2	0.17	< 0.5	4	13	18	1.86	< 10	30	0.09	10	0.09
L19900E 18850N	201	202	< 5	-----	0.2	0.85	< 2	210	< 0.5	< 2	0.25	< 0.5	3	14	11	1.35	< 10	30	0.08	10	0.15
L19900E 18875N	201	202	< 5	-----	0.6	1.02	10	230	0.5	< 2	0.25	< 0.5	10	16	29	3.03	< 10	100	0.09	10	0.18
L19900E 18900N	201	202	< 5	-----	< 0.2	0.68	8	180	< 0.5	2	0.10	< 0.5	5	11	16	2.10	< 10	30	0.08	10	0.11

CERTIFICATION: _____



Chemex Labs Ltd.

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 British Columbia, Canada V7J 2C1
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
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Project:
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Page : 4-B
 Total P : 5
 Certificate Date: 06-AUG-97
 Invoice No. : 19734319
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 Account : OQN

CERTIFICATE OF ANALYSIS A9734319

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L19800E 18975N	201	202	130	3 <	0.01	11	310	14	2	1	13	0.01	< 10	< 10	35	< 10	50
L19800E 19000N	201	202	205	1 <	0.01	17	280	14	2	2	9	0.03	< 10	< 10	50	< 10	80
L19800E 19025N	201	202	310	2 <	0.01	16	450	16	2	3	12	0.03	< 10	< 10	58	< 10	84
L19800E 19050N	201	202	235	1 <	0.01	17	310	14	2	3	14	0.03	< 10	< 10	54	< 10	72
L19800E 19075N	201	202	210	3 <	0.01	26	500	26	16	3	52	< 0.01	< 10	< 10	23	< 10	130
L19800E 19100N	201	202	80	2 <	0.01	16	720	24	8	< 1	38	< 0.01	< 10	< 10	29	< 10	72
L19800E 19125N	201	202	140	2 <	0.01	22	290	18	4	2	27	< 0.01	< 10	< 10	25	< 10	106
L19800E 19175N	201	202	185	1 <	0.01	18	590	10	< 2	3	20	0.03	< 10	< 10	38	< 10	78
L19800E 19225N	201	202	190	3 <	0.01	17	470	20	4	3	38	0.03	< 10	< 10	48	< 10	92
L19800E 19250N	201	202	185	2 <	0.01	21	510	34	6	4	26	0.04	< 10	< 10	55	< 10	162
L19800E 19275N	201	202	155	4 <	0.01	20	430	26	6	3	24	0.03	< 10	< 10	46	< 10	128
L19800E 19300N	201	202	235	1 <	0.01	22	390	16	4	4	23	0.06	< 10	< 10	58	< 10	94
L19800E 19325N	201	202	215	1 <	0.01	19	220	20	2	4	16	0.04	< 10	< 10	48	< 10	78
L19800E 19350N	201	202	225	1 <	0.01	18	200	22	2	3	16	0.04	< 10	< 10	53	< 10	76
L19800E 19375N	201	202	190	1 <	0.01	17	240	16	< 2	3	16	0.06	< 10	< 10	62	< 10	80
L19800E 19400N	201	202	205	< 1	< 0.01	17	230	14	< 2	3	19	0.06	< 10	< 10	59	< 10	64
L19800E 19425N	201	202	215	1 <	0.01	20	170	12	< 2	4	14	0.08	< 10	< 10	64	< 10	52
L19800E 19450N	201	202	180	3 <	0.01	19	430	14	< 2	4	35	0.04	< 10	< 10	49	< 10	98
L19800E 19475N	201	202	205	2 <	0.01	19	460	10	2	3	28	0.05	< 10	< 10	43	< 10	100
L19800E 19500N	201	202	60	4 <	0.01	12	460	18	6	1	28	0.01	< 10	< 10	42	< 10	84
L19800E 19525N	201	202	140	7 <	0.01	22	390	28	16	2	41	< 0.01	< 10	< 10	46	< 10	258
L19800E 19550N	201	202	145	7 <	0.01	26	470	46	10	3	45	0.01	< 10	< 10	50	< 10	246
L19800E 19575N	201	202	680	8 <	0.01	31	690	76	12	4	52	0.01	< 10	< 10	62	< 10	260
L19800E 19600N	201	202	510	2 <	0.01	47	660	20	< 2	5	46	0.03	< 10	< 10	39	< 10	310
L19900E 18525N	201	202	150	3 <	0.01	22	310	8	< 2	2	13	0.03	< 10	< 10	45	< 10	76
L19900E 18550N	201	202	180	1 <	0.01	16	240	8	< 2	3	10	0.04	< 10	< 10	58	< 10	74
L19900E 18575N	201	202	1790	1 <	0.01	29	810	12	2	3	25	0.02	< 10	< 10	52	< 10	114
L19900E 18600N	201	202	150	1 <	0.01	19	220	8	< 2	2	10	0.03	< 10	< 10	35	< 10	52
L19900E 18625N	201	202	345	< 1	< 0.01	17	160	8	2	3	17	0.06	< 10	< 10	50	< 10	48
L19900E 18650N	201	202	700	< 1	< 0.01	19	340	10	2	4	21	0.06	< 10	< 10	61	< 10	60
L19900E 18675N	201	202	245	< 1	< 0.01	16	260	10	2	3	18	0.08	< 10	< 10	66	< 10	54
L19900E 18700N	201	202	380	1 <	0.01	19	370	12	< 2	4	21	0.10	< 10	< 10	77	< 10	76
L19900E 18725N	201	202	200	1 <	0.01	14	220	10	< 2	3	15	0.07	< 10	< 10	58	< 10	54
L19900E 18750N	201	202	180	1 <	0.01	12	300	10	< 2	3	15	0.07	< 10	< 10	69	< 10	50
L19900E 18775N	201	202	145	< 1	< 0.01	6	260	8	< 2	1	16	0.03	< 10	< 10	32	< 10	26
L19900E 18800N	201	202	170	< 1	< 0.01	10	140	10	< 2	1	12	0.06	< 10	< 10	49	< 10	38
L19900E 18825N	201	202	120	1 <	0.01	15	290	8	< 2	1	14	0.02	< 10	< 10	29	< 10	50
L19900E 18850N	201	202	200	1 <	0.01	9	260	10	2	< 1	15	0.03	< 10	< 10	33	< 10	40
L19900E 18875N	201	202	240	5 <	0.01	39	650	10	4	3	14	< 0.01	< 10	< 10	38	< 10	128
L19900E 18900N	201	202	165	2 <	0.01	19	230	8	2	1	9	0.01	< 10	< 10	31	< 10	64

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

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN: RICK DIMENT

Page Number : 5-A
 Total P : 5
 Certificate Date: 06-AUG-97
 Invoice No. : 19734319
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9734319

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L19900E 18925N	201	202	< 5	-----	< 0.2	0.80	14	160	0.5	< 2	0.09	< 0.5	9	12	29	3.15	< 10	40	0.07	< 10	0.10
L19900E 18950N	201	202	< 5	-----	0.2	0.76	24	330	0.5	< 2	0.78	5.5	7	14	34	1.89	< 10	360	0.08	10	0.14
L19900E 19075N	201	202	< 5	-----	< 0.2	1.18	24	300	0.5	< 2	0.08	< 0.5	11	31	24	2.84	< 10	30	0.12	10	0.32
L19900E 19100N	201	202	< 5	-----	0.2	1.49	14	760	1.0	< 2	0.23	1.5	9	25	55	2.71	< 10	120	0.18	< 10	0.22
L19900E 19125N	201	202	< 5	-----	< 0.2	0.92	12	280	0.5	< 2	0.10	< 0.5	13	15	32	2.88	< 10	10	0.15	< 10	0.22
L19900E 19225N	201	202	< 5	-----	0.6	1.44	18	580	< 0.5	< 2	0.22	< 0.5	6	25	24	2.15	< 10	100	0.09	20	0.37
L19900E 19250N	201	202	< 5	-----	< 0.2	1.79	12	280	< 0.5	< 2	0.17	0.5	6	28	19	2.50	< 10	30	0.08	10	0.39
L19900E 19275N	201	202	< 5	-----	< 0.2	1.71	26	490	0.5	< 2	0.29	< 0.5	10	34	30	2.87	< 10	90	0.07	20	0.53
L19900E 19300N	201	202	< 5	-----	0.2	2.02	18	290	0.5	< 2	0.14	< 0.5	7	31	19	2.88	< 10	50	0.06	10	0.43
L19900E 19325N	201	202	< 5	-----	< 0.2	1.94	16	240	0.5	< 2	0.13	< 0.5	7	33	19	3.05	< 10	40	0.05	10	0.43
L19900E 19350N	201	202	< 5	-----	0.2	1.31	20	300	< 0.5	< 2	0.09	0.5	6	25	14	2.84	< 10	10	0.08	20	0.21
L19900E 19375N	201	202	< 5	-----	0.2	1.25	10	220	< 0.5	< 2	0.07	< 0.5	4	18	6	2.14	< 10	10	0.03	< 10	0.21
L19900E 19400N	201	202	< 5	-----	1.0	1.74	12	120	< 0.5	< 2	0.05	< 0.5	4	22	8	3.25	< 10	20	0.02	< 10	0.18
L19900E 19425N	201	202	< 5	-----	< 0.2	1.90	12	200	< 0.5	< 2	0.08	< 0.5	8	29	16	2.98	< 10	30	0.03	10	0.43
L19900E 19450N	201	202	< 5	-----	1.4	0.56	42	500	< 0.5	< 2	0.02	< 0.5	4	10	27	3.40	< 10	60	0.13	20	0.05
L19900E 19475N	201	202	< 5	-----	0.8	0.64	32	1100	< 0.5	< 2	0.03	< 0.5	1	9	22	1.50	< 10	70	0.14	20	0.04
L19900E 19500N	201	202	< 5	-----	1.4	0.95	66	1130	< 0.5	< 2	0.07	1.0	4	17	29	2.71	< 10	220	0.15	20	0.11
L19900E 19525N	201	202	15	-----	0.8	1.21	248	740	0.5	2	0.09	3.0	13	21	39	3.20	< 10	240	0.14	30	0.20
L19900E 19550N	201	202	10	-----	0.6	1.10	106	580	< 0.5	< 2	0.10	1.5	5	20	22	2.37	< 10	180	0.12	20	0.19
L19900E 19575N	201	202	10	-----	0.6	0.75	204	740	0.5	< 2	0.13	2.5	5	17	29	2.46	< 10	120	0.11	20	0.09

CERTIFICATION: _____



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page No: 5-B
 Total P: 5
 Certificate Date: 06-AUG-97
 Invoice No.: 19734319
 P.O. Number:
 Account: OQN

Project:
 Comments: ATTN:RICK DIMENT

CERTIFICATE OF ANALYSIS

A9734319

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L19900E 18925N	201	202	220	2 < 0.01		32	320	10	< 2	3	9 < 0.01	< 10	< 10	20	< 10		80
L19900E 18950N	201	202	435	12 < 0.01		39	340	12	8	3	30 0.01	< 10	< 10	120	< 10		342
L19900E 19075N	201	202	310	5 < 0.01		27	520	22	4	3	19 0.01	< 10	< 10	51	< 10		106
L19900E 19100N	201	202	265	4 0.01		29	470	30	6	3	40 < 0.01	< 10	< 10	37	< 10		96
L19900E 19125N	201	202	305	1 < 0.01		29	400	18	4	3	36 < 0.01	< 10	< 10	25	< 10		122
L19900E 19225N	201	202	145	4 < 0.01		17	480	26	6	4	68 0.05	< 10	< 10	70	< 10		82
L19900E 19250N	201	202	175	3 < 0.01		18	340	18	2	3	24 0.05	< 10	< 10	60	< 10		82
L19900E 19275N	201	202	320	1 < 0.01		25	340	20	2	6	33 0.07	< 10	< 10	60	< 10		110
L19900E 19300N	201	202	200	1 < 0.01		19	270	26	4	4	20 0.06	< 10	< 10	62	< 10		94
L19900E 19325N	201	202	190	1 < 0.01		22	310	20	2	4	16 0.06	< 10	< 10	64	< 10		96
L19900E 19350N	201	202	165	3 < 0.01		19	650	32	6	3	27 0.05	< 10	< 10	64	< 10		150
L19900E 19375N	201	202	100	< 1 < 0.01		9	240	12	< 2	1	9 0.04	< 10	< 10	47	< 10		32
L19900E 19400N	201	202	170	1 < 0.01		10	430	16	2	1	6 0.03	< 10	< 10	70	< 10		48
L19900E 19425N	201	202	260	< 1 < 0.01		17	200	10	2	3	9 0.05	< 10	< 10	49	< 10		56
L19900E 19450N	201	202	85	13 < 0.01		22	380	32	24	1	23 < 0.01	< 10	< 10	50	< 10		280
L19900E 19475N	201	202	20	12 < 0.01		8	330	22	16	1	48 < 0.01	< 10	< 10	47	< 10		102
L19900E 19500N	201	202	90	13 < 0.01		18	550	42	18	2	46 < 0.01	< 10	< 10	58	< 10		166
L19900E 19525N	201	202	450	9 < 0.01		28	540	100	24	4	48 0.01	< 10	< 10	63	< 10		308
L19900E 19550N	201	202	340	8 < 0.01		16	520	52	10	1	39 0.01	< 10	< 10	60	< 10		124
L19900E 19575N	201	202	140	9 < 0.01		26	520	68	20	1	47 < 0.01	< 10	< 10	50	< 10		310

CERTIFICATION:

Hank Buchler



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

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 Total Pages 6
 Certificate No. 25-AUG-97
 Invoice No. 19738002
 P.O. Number
 Account : OQN

Project:
 Comments: ATTN: RICK DIMENT CC: L. JAMRICH

CERTIFICATE OF ANALYSIS A9738002

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	
			FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	
L22100E 18000N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22100E 18025N	201	202	< 5	10.00	< 0.2	0.38	< 2	140	< 0.5	< 2	0.35	2.5	3	22	32	0.87	< 10	60	0.04	< 10	0.08	
L22100E 18050N	201	202	5	30.00	0.8	1.69	10	200	< 0.5	< 2	0.97	2.5	6	79	48	2.51	< 10	40	0.06	10	0.75	
L22100E 18075N	201	202	< 5	10.00	0.8	0.73	< 2	150	0.5	< 2	3.41	9.0	2	19	73	0.68	< 10	90	0.02	10	0.28	
L22100E 18100N	201	202	< 5	10.00	1.6	0.81	< 2	220	< 0.5	< 2	0.58	3.5	4	26	30	1.22	< 10	100	0.08	10	0.25	
L22100E 18125N	201	202	< 5	30.00	0.6	2.30	4	340	0.5	< 2	0.58	3.5	10	85	42	3.45	< 10	30	0.06	10	0.93	
L22100E 18150N	201	202	< 5	10.00	0.2	0.64	2	160	< 0.5	< 2	0.34	2.5	2	19	16	1.09	< 10	40	0.05	< 10	0.15	
L22100E 18175N	201	202	< 5	30.00	< 0.2	0.63	< 2	110	< 0.5	< 2	0.26	1.0	1	18	12	1.18	< 10	50	0.05	< 10	0.14	
L22100E 18200N	201	202	< 5	10.00	1.2	0.95	< 2	320	0.5	< 2	3.29	5.0	3	20	71	1.01	< 10	110	0.02	10	0.30	
L22100E 18225N	201	202	< 5	10.00	1.2	2.40	< 2	300	0.5	< 2	0.65	3.0	7	41	42	2.82	< 10	70	0.07	10	0.76	
L22100E 18250N	201	202	< 5	10.00	< 0.2	1.69	4	200	0.5	< 2	0.42	1.5	7	37	26	2.26	< 10	40	0.10	10	1.04	
L22100E 18275N	201	202	< 5	10.00	0.2	1.81	< 2	290	0.5	< 2	0.96	2.0	7	32	35	2.15	< 10	60	0.07	10	0.81	
L22100E 18300N	201	202	< 5	30.00	< 0.2	1.44	< 2	100	< 0.5	< 2	0.24	< 0.5	5	25	12	2.14	< 10	10	0.09	10	0.70	
L22100E 18325N	201	202	< 5	30.00	< 0.2	2.02	6	190	< 0.5	< 2	0.19	< 0.5	6	32	16	2.94	< 10	< 10	0.10	10	0.80	
L22100E 18350N	201	202	< 5	10.00	0.6	1.67	24	110	< 0.5	< 2	0.08	< 0.5	4	28	16	3.48	< 10	30	0.04	10	0.53	
L22100E 18375N	201	202	< 5	10.00	< 0.2	2.20	40	130	1.0	< 2	0.23	0.5	9	50	35	3.50	< 10	40	0.05	30	2.01	
L22100E 18400N	201	202	60	30.00	1.2	1.45	250	250	< 0.5	< 2	0.74	< 0.5	6	24	24	2.21	< 10	200	0.04	10	0.45	
L22100E 18425N	201	202	140	30.00	1.6	1.17	264	160	< 0.5	< 2	0.26	0.5	10	21	16	2.28	< 10	190	0.04	10	0.39	
L22100E 18450N	201	202	185	30.00	1.8	1.38	170	220	< 0.5	< 2	0.19	< 0.5	4	21	23	2.03	< 10	230	0.09	10	0.33	
L22100E 18475N	201	202	10	30.00	0.2	1.78	14	290	0.5	< 2	0.90	3.5	8	33	25	1.79	< 10	70	0.07	20	0.62	
L22100E 18500N	201	202	< 5	10.00	0.2	0.86	< 2	320	< 0.5	< 2	1.03	2.0	3	14	18	0.76	< 10	190	0.05	10	0.31	
L22100E 18525N	201	202	5	30.00	0.2	1.54	< 2	350	< 0.5	< 2	0.64	1.5	7	28	20	1.69	< 10	110	0.06	10	0.86	
L22100E 18550N	201	202	15	30.00	< 0.2	1.19	104	190	< 0.5	< 2	0.06	< 0.5	6	18	23	2.65	< 10	40	0.12	30	0.27	
L22100E 18575N	201	202	< 5	30.00	< 0.2	1.55	6	150	< 0.5	< 2	0.10	< 0.5	6	23	15	2.16	< 10	20	0.05	10	0.36	
L22100E 18600N	201	202	15	30.00	< 0.2	1.61	78	140	< 0.5	< 2	0.08	< 0.5	5	23	12	3.43	< 10	30	0.07	10	0.31	
L22100E 18625N	201	202	20	30.00	< 0.2	1.55	30	180	< 0.5	< 2	0.09	< 0.5	3	20	16	1.64	< 10	30	0.06	10	0.26	
L22100E 18650N	201	202	< 5	10.00	< 0.2	1.64	12	210	< 0.5	< 2	0.07	< 0.5	5	21	15	3.19	< 10	10	0.09	20	0.21	
L22100E 18675N	201	202	< 5	30.00	< 0.2	2.55	4	230	< 0.5	< 2	0.07	< 0.5	10	30	18	3.30	< 10	20	0.09	10	0.42	
L22100E 18700N	201	202	< 5	30.00	0.2	1.21	4	200	< 0.5	< 2	0.10	< 0.5	4	19	8	2.30	< 10	10	0.07	10	0.26	
L22100E 18725N	201	202	< 5	30.00	< 0.2	1.48	2	200	< 0.5	< 2	0.09	< 0.5	7	21	11	2.59	< 10	10	0.07	10	0.26	
L22100E 18750N	201	202	< 5	30.00	< 0.2	2.68	< 2	130	< 0.5	< 2	0.11	< 0.5	8	31	10	3.23	< 10	20	0.03	10	0.38	
L22100E 18775N	201	202	5	30.00	0.8	1.59	6	410	0.5	< 2	0.11	< 0.5	6	62	31	2.63	< 10	80	0.15	30	0.35	
L22100E 18800N	201	202	< 5	30.00	0.2	1.60	< 2	190	< 0.5	< 2	0.17	< 0.5	3	27	11	1.51	< 10	130	0.07	10	0.32	
L22100E 18825N	201	202	< 5	10.00	< 0.2	1.46	2	290	< 0.5	< 2	0.37	< 0.5	9	23	18	2.05	< 10	70	0.10	10	0.33	
L22100E 18850N	201	202	< 5	30.00	< 0.2	1.54	6	190	< 0.5	< 2	0.22	< 0.5	4	24	12	1.86	< 10	100	0.08	10	0.37	
L22100E 18875N	201	202	20	10.00	< 0.2	1.46	4	170	< 0.5	< 2	0.10	< 0.5	5	27	14	2.18	< 10	40	0.09	20	0.35	
L22100E 18900N	201	202	< 5	10.00	< 0.2	1.45	4	190	< 0.5	< 2	0.14	< 0.5	6	24	16	2.02	< 10	50	0.07	10	0.34	
L22100E 18925N	201	202	20	10.00	< 0.2	1.31	2	140	< 0.5	< 2	0.11	< 0.5	5	21	11	1.74	< 10	30	0.05	10	0.30	
L22100E 18950N	201	202	< 5	30.00	0.2	1.41	< 2	160	< 0.5	< 2	0.12	< 0.5	4	23	13	1.70	< 10	90	0.05	10	0.32	
L22100E 18975N	201	202	< 5	10.00	0.2	1.13	< 2	250	< 0.5	< 2	0.15	< 0.5	3	17	12	1.20	< 10	110	0.05	10	0.20	

CERTIFICATION:

Handwritten signature: Hart Buchler



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT CC: L. JAMRICH

Page :1-B
Total F :6
Certificate Date: 25-AUG-97
Invoice No. :19738002
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Account :OQN

CERTIFICATE OF ANALYSIS A9738002

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L22100E 18000N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22100E 18025N	201	202	95	3 < 0.01	26	760	4	< 2	1	25	0.01	< 10	< 10	53	< 10	118	
L22100E 18050N	201	202	150	1 < 0.01	83	2570	10	2	3	66	0.05	< 10	< 10	221	< 10	578	
L22100E 18075N	201	202	115	< 1 < 0.01	51	1030	< 2	2	1	87	0.01	< 10	< 10	74	< 10	196	
L22100E 18100N	201	202	185	3 < 0.01	25	1110	6	< 2	2	33	0.03	< 10	< 10	72	< 10	190	
L22100E 18125N	201	202	285	< 1 < 0.01	58	1300	14	< 2	4	48	0.16	< 10	< 10	194	< 10	392	
L22100E 18150N	201	202	75	1 0.01	13	620	12	< 2	< 1	25	0.03	< 10	< 10	36	< 10	74	
L22100E 18175N	201	202	120	< 1 < 0.01	10	750	8	< 2	< 1	17	< 0.01	< 10	< 10	44	< 10	82	
L22100E 18200N	201	202	175	1 < 0.01	46	1540	4	2	1	99	0.02	< 10	< 10	79	< 10	192	
L22100E 18225N	201	202	185	1 < 0.01	53	1020	10	2	3	62	0.05	< 10	< 10	125	< 10	352	
L22100E 18250N	201	202	230	1 < 0.01	36	740	8	< 2	3	42	0.07	< 10	< 10	130	< 10	210	
L22100E 18275N	201	202	315	1 < 0.01	39	780	6	< 2	3	51	0.05	< 10	< 10	116	< 10	226	
L22100E 18300N	201	202	120	< 1 < 0.01	20	300	6	< 2	3	19	0.06	< 10	< 10	72	< 10	88	
L22100E 18325N	201	202	170	2 < 0.01	19	230	8	2	3	16	0.06	< 10	< 10	78	< 10	70	
L22100E 18350N	201	202	160	2 < 0.01	13	370	10	34	2	10	0.07	< 10	< 10	82	< 10	48	
L22100E 18375N	201	202	475	12 < 0.01	53	600	22	110	4	18	0.04	< 10	< 10	331	< 10	282	
L22100E 18400N	201	202	225	1 < 0.01	20	680	12	614	2	30	0.03	< 10	< 10	57	< 10	116	
L22100E 18425N	201	202	1020	1 < 0.01	15	650	18	1795	1	20	0.02	< 10	< 10	40	< 10	104	
L22100E 18450N	201	202	120	< 1 < 0.01	14	660	12	572	3	26	0.03	< 10	< 10	31	< 10	68	
L22100E 18475N	201	202	240	1 < 0.01	42	900	10	78	3	58	0.05	< 10	< 10	88	< 10	340	
L22100E 18500N	201	202	155	3 0.01	20	880	2	106	1	47	0.01	< 10	< 10	26	< 10	94	
L22100E 18525N	201	202	350	1 < 0.01	32	720	8	28	3	34	0.03	< 10	< 10	70	< 10	198	
L22100E 18550N	201	202	125	1 < 0.01	18	480	20	36	1	25	0.01	< 10	< 10	31	< 10	78	
L22100E 18575N	201	202	145	< 1 < 0.01	13	220	10	2	2	13	0.04	< 10	< 10	39	< 10	42	
L22100E 18600N	201	202	140	1 < 0.01	12	240	14	16	2	22	0.04	< 10	< 10	50	< 10	48	
L22100E 18625N	201	202	75	< 1 < 0.01	11	320	8	22	1	14	0.02	< 10	< 10	29	< 10	30	
L22100E 18650N	201	202	125	1 < 0.01	10	420	12	14	2	17	0.03	< 10	< 10	52	< 10	50	
L22100E 18675N	201	202	230	< 1 < 0.01	19	270	12	26	3	18	0.03	< 10	< 10	49	< 10	68	
L22100E 18700N	201	202	195	1 < 0.01	7	240	8	< 2	1	15	0.05	< 10	< 10	47	< 10	48	
L22100E 18725N	201	202	305	< 1 < 0.01	11	310	10	< 2	1	17	0.03	< 10	< 10	44	< 10	56	
L22100E 18750N	201	202	290	< 1 < 0.01	15	350	10	< 2	3	12	0.05	< 10	< 10	45	< 10	58	
L22100E 18775N	201	202	175	< 1 < 0.01	19	880	20	16	3	37	0.03	< 10	< 10	48	< 10	70	
L22100E 18800N	201	202	80	< 1 < 0.01	13	500	10	30	< 1	21	0.03	< 10	< 10	48	< 10	56	
L22100E 18825N	201	202	405	1 < 0.01	23	530	16	164	1	52	0.02	< 10	< 10	49	< 10	76	
L22100E 18850N	201	202	105	< 1 < 0.01	16	520	10	18	1	24	0.04	< 10	< 10	45	< 10	62	
L22100E 18875N	201	202	110	< 1 < 0.01	18	410	10	10	1	15	0.02	< 10	< 10	39	< 10	58	
L22100E 18900N	201	202	205	< 1 < 0.01	15	460	10	10	1	17	0.03	< 10	< 10	38	< 10	60	
L22100E 18925N	201	202	205	< 1 < 0.01	13	350	12	10	< 1	13	0.02	< 10	< 10	37	< 10	46	
L22100E 18950N	201	202	120	< 1 < 0.01	13	520	10	8	1	13	0.02	< 10	< 10	29	< 10	54	
L22100E 18975N	201	202	70	< 1 < 0.01	10	640	12	2	< 1	18	0.01	< 10	< 10	20	< 10	30	

CERTIFICATION:

[Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT CC: L. JAMRICH

Page 6
Total Pages 6
Certification Date: 25-AUG-97
Invoice Number: 19738002
P.O. Number:
Account: 0QN

CERTIFICATE OF ANALYSIS A9738002

SAMPLE	PREP CODE	Au ppb fusion FA+AA wt. gm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
L22100E 19000M	201 202	< 5 30.00	< 0.2	1.59	2	210	< 0.5	< 2	0.11	< 0.5	7	24	17	2.24	< 10	50	0.05	10	0.36
L22100E 19025M	201 202	< 5 30.00	< 0.2	1.57	< 2	240	< 0.5	< 2	0.12	< 0.5	6	24	18	2.24	< 10	80	0.06	10	0.38
L22100E 19050M	201 202	< 5 10.00	< 0.2	0.77	< 2	350	< 0.5	< 2	0.14	< 0.5	4	12	21	1.31	< 10	70	0.10	< 10	0.08
L22100E 19075M	201 202	< 5 30.00	< 0.2	2.88	< 2	140	0.5	< 2	0.12	< 0.5	9	33	16	3.16	< 10	60	0.06	10	0.35
L22100E 19100M	201 202	< 5 30.00	< 0.2	2.05	2	130	< 0.5	< 2	0.09	< 0.5	9	27	18	4.27	< 10	20	0.07	10	0.35
L22100E 19125M	201 202	< 5 30.00	< 0.2	1.44	6	100	< 0.5	< 2	0.05	< 0.5	6	21	16	3.65	< 10	20	0.08	10	0.19
L22100E 19150M	201 202	< 5 30.00	< 0.2	1.82	< 2	240	< 0.5	< 2	0.11	< 0.5	14	24	24	4.02	< 10	90	0.11	< 10	0.32
L22100E 19175M	201 202	< 5 30.00	< 0.2	1.42	10	560	0.5	< 2	0.09	< 0.5	10	18	36	3.19	< 10	90	0.15	10	0.19
L22100E 19200M	201 202	< 5 30.00	< 0.2	0.94	10	260	0.5	< 2	0.04	< 0.5	9	13	29	3.32	< 10	50	0.15	< 10	0.15
L22100E 19225M	201 202	20 30.00	0.2	1.00	28	440	0.5	< 2	0.09	< 0.5	10	15	32	2.84	< 10	120	0.13	< 10	0.16
L22100E 19250M	201 202	40 30.00	0.4	0.59	110	560	0.5	< 2	0.04	< 0.5	10	10	40	2.75	< 10	140	0.10	10	0.06
L22100E 19275M	201 202	70 30.00	< 0.2	1.64	56	400	< 0.5	< 2	0.62	< 0.5	10	29	22	2.59	< 10	190	0.06	10	0.59
L22100E 19300M	201 202	80 30.00	< 0.2	1.42	60	310	< 0.5	< 2	0.53	< 0.5	8	26	18	2.36	< 10	250	0.05	10	0.53
L22100E 19325M	201 202	50 30.00	< 0.2	1.48	28	280	< 0.5	< 2	0.50	< 0.5	7	27	15	2.26	< 10	140	0.05	10	0.51
L22100E 19350M	201 202	60 30.00	0.2	1.53	30	350	< 0.5	< 2	0.54	< 0.5	8	27	16	2.20	< 10	300	0.06	10	0.50
L22200E 18000M	201 202	< 5 10.00	1.0	1.18	< 2	140	0.5	< 2	3.11	6.0	4	36	94	1.06	< 10	170	0.03	10	0.97
L22200E 18025M	201 202	< 5 10.00	0.8	1.00	6	160	0.5	< 2	3.53	4.0	4	31	61	1.09	< 10	110	0.03	10	0.59
L22200E 18050M	201 202	not/ss not/ss	0.8	0.21	< 2	100	< 0.5	< 2	1.11	< 0.5	< 1	7	16	0.37	< 10	120	0.04	< 10	0.08
L22200E 18075M	-- --	NotRed NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22200E 18100M	201 202	< 5 10.00	1.4	1.22	2	240	0.5	< 2	2.76	6.0	6	52	70	1.30	< 10	80	0.04	10	0.70
L22200E 18125M	201 202	< 5 10.00	2.6	1.27	2	250	0.5	< 2	3.48	6.5	7	47	95	1.16	< 10	140	0.04	10	0.71
L22200E 18150M	201 202	< 5 10.00	1.8	0.85	2	190	0.5	< 2	2.66	6.5	4	27	101	0.81	< 10	100	0.03	10	0.38
L22200E 18175M	201 202	< 5 10.00	1.2	1.62	6	190	0.5	< 2	2.39	5.5	8	46	55	1.89	< 10	90	0.17	10	1.31
L22200E 18200M	201 202	< 5 30.00	0.6	1.79	2	210	< 0.5	< 2	0.30	1.0	8	38	27	2.50	< 10	10	0.05	10	0.64
L22200E 18225M	201 202	< 5 30.00	1.4	1.75	2	210	< 0.5	< 2	0.33	1.0	5	37	25	2.35	< 10	30	0.04	10	0.56
L22200E 18250M	201 202	< 5 30.00	< 0.2	0.95	< 2	140	< 0.5	< 2	0.11	< 0.5	3	14	11	1.37	< 10	20	0.08	10	0.23
L22200E 18275M	201 202	< 5 30.00	< 0.2	1.40	< 2	300	< 0.5	< 2	0.23	< 0.5	6	22	16	2.48	< 10	70	0.07	10	0.43
L22200E 18300M	201 202	< 5 10.00	1.0	1.28	< 2	360	0.5	< 2	2.68	1.0	8	17	35	1.56	< 10	80	0.04	10	0.34
L22200E 18325M	201 202	5 30.00	0.6	1.96	< 2	190	0.5	< 2	1.70	0.5	7	34	29	1.61	< 10	50	0.06	10	1.26
L22200E 18350M	201 202	165 30.00	0.8	2.50	98	210	2.0	< 2	1.49	1.0	12	65	45	3.72	< 10	110	0.16	40	2.03
L22200E 18375M	201 202	10 30.00	0.8	2.75	2	450	1.0	< 2	1.11	< 0.5	14	76	53	3.32	< 10	60	0.17	20	2.53
L22200E 18400M	201 202	< 5 30.00	0.6	2.90	< 2	180	1.0	< 2	1.60	0.5	8	49	34	2.13	< 10	50	0.13	10	2.69
L22200E 18425M	-- --	NotRed NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22200E 18450M	201 202	< 5 30.00	< 0.2	0.84	62	140	< 0.5	< 2	0.07	< 0.5	2	12	7	1.36	< 10	< 10	0.06	20	0.13
L22200E 18475M	201 202	5 30.00	< 0.2	1.29	6	250	< 0.5	< 2	0.10	< 0.5	3	14	8	1.88	< 10	< 10	0.09	30	0.13
L22200E 18500M	201 202	5 30.00	< 0.2	2.16	28	210	< 0.5	< 2	0.16	< 0.5	7	30	9	3.30	< 10	20	0.06	10	0.40
L22200E 18525M	201 202	< 5 30.00	< 0.2	1.79	14	240	< 0.5	< 2	0.09	< 0.5	4	21	9	2.17	< 10	< 10	0.07	20	0.27
L22200E 18550M	201 202	25 30.00	< 0.2	2.05	42	160	< 0.5	< 2	0.08	< 0.5	7	28	14	2.75	< 10	10	0.05	10	0.39
L22200E 18575M	201 202	25 30.00	< 0.2	2.07	26	190	< 0.5	< 2	0.09	< 0.5	9	32	26	2.70	< 10	30	0.06	10	0.50
L22200E 18600M	201 202	< 5 30.00	< 0.2	1.81	8	150	< 0.5	< 2	0.08	< 0.5	11	28	23	2.81	< 10	10	0.04	10	0.43

CERTIFICATION:



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page : 2-B
 Total : 6
 Certificate No. : 25-AUG-97
 Invoice No. : 19738002
 P.O. Number :
 Account : OQN

Project :
 Comments: ATTN: RICK DIMENT CC: L. JAMRICH

CERTIFICATE OF ANALYSIS A9738002

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L22100E 19000N	201	202	230	1 < 0.01		17	400	12	6	1	14	0.02	< 10	< 10	37	< 10	60
L22100E 19025N	201	202	175	< 1 < 0.01		18	470	14	< 2	2	16	0.02	< 10	< 10	34	< 10	62
L22100E 19050N	201	202	65	< 1 < 0.01		12	750	6	< 2	1	23	< 0.01	< 10	< 10	15	< 10	34
L22100E 19075N	201	202	270	< 1 < 0.01		18	340	12	< 2	3	13	0.06	< 10	< 10	51	< 10	56
L22100E 19100N	201	202	275	< 1 < 0.01		18	380	16	< 2	3	12	0.04	< 10	< 10	50	< 10	78
L22100E 19125N	201	202	190	1 < 0.01		16	460	18	< 2	2	12	0.04	< 10	< 10	54	< 10	54
L22100E 19150N	201	202	560	< 1 < 0.01		24	660	26	< 2	2	18	0.01	< 10	< 10	38	< 10	88
L22100E 19175N	201	202	240	1 0.01		28	580	26	< 2	3	28	< 0.01	< 10	< 10	31	< 10	82
L22100E 19200N	201	202	135	1 < 0.01		23	440	20	< 2	3	19	< 0.01	< 10	< 10	24	< 10	92
L22100E 19225N	201	202	180	2 < 0.01		25	450	22	< 2	3	44	< 0.01	< 10	< 10	31	< 10	104
L22100E 19250N	201	202	175	3 < 0.01		29	500	18	6	3	120	< 0.01	< 10	< 10	32	< 10	156
L22100E 19275N	201	202	400	1 < 0.01		25	510	12	12	5	81	0.05	< 10	< 10	43	< 10	76
L22100E 19300N	201	202	295	< 1 < 0.01		20	510	12	14	4	71	0.05	< 10	< 10	42	< 10	70
L22100E 19325N	201	202	210	< 1 < 0.01		18	550	8	6	3	58	0.06	< 10	< 10	45	< 10	60
L22100E 19350N	201	202	400	< 1 < 0.01		19	570	6	8	4	77	0.05	< 10	< 10	44	< 10	64
L22200E 18000N	201	202	300	< 1 < 0.01		63	1450	10	2	1	47	0.03	< 10	< 10	241	< 10	410
L22200E 18025N	201	202	290	< 1 < 0.01		52	1510	6	2	1	57	0.02	< 10	< 10	67	< 10	114
L22200E 18050N	201	202	70	11 0.01		9	720	< 2	< 2	< 1	29	0.01	< 10	< 10	13	< 10	54
L22200E 18075N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22200E 18100N	201	202	340	1 < 0.01		62	1500	6	< 2	2	87	0.04	< 10	< 10	192	< 10	354
L22200E 18125N	201	202	550	1 < 0.01		74	1610	6	< 2	2	86	0.04	< 10	< 10	115	< 10	268
L22200E 18150N	201	202	325	1 < 0.01		60	1250	2	2	1	69	0.01	< 10	< 10	78	< 10	140
L22200E 18175N	201	202	325	3 < 0.01		65	1770	6	2	5	55	0.02	< 10	< 10	148	< 10	316
L22200E 18200N	201	202	225	3 < 0.01		44	550	8	< 2	3	23	0.05	< 10	< 10	129	< 10	232
L22200E 18225N	201	202	140	4 < 0.01		36	510	10	2	2	25	0.04	< 10	< 10	161	< 10	206
L22200E 18250N	201	202	110	1 < 0.01		11	280	2	< 2	< 1	10	0.02	< 10	< 10	30	< 10	66
L22200E 18275N	201	202	215	1 < 0.01		19	390	10	< 2	1	16	0.03	< 10	< 10	45	< 10	88
L22200E 18300N	201	202	630	2 0.01		28	1370	8	< 2	1	61	0.01	< 10	< 10	53	< 10	74
L22200E 18325N	201	202	345	< 1 < 0.01		26	640	6	< 2	4	73	0.07	< 10	< 10	65	< 10	104
L22200E 18350N	201	202	510	13 < 0.01		53	1200	20	74	10	45	0.04	< 10	< 10	138	< 10	180
L22200E 18375N	201	202	290	2 0.01		56	740	8	6	8	53	0.08	< 10	< 10	109	< 10	114
L22200E 18400N	201	202	385	< 1 < 0.01		31	760	2	< 2	5	82	0.12	< 10	< 10	75	< 10	98
L22200E 18425N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22200E 18450N	201	202	80	< 1 < 0.01		6	110	12	492	1	12	0.03	< 10	< 10	33	< 10	26
L22200E 18475N	201	202	80	1 < 0.01		6	230	12	12	1	15	0.01	< 10	< 10	41	< 10	38
L22200E 18500N	201	202	205	< 1 < 0.01		13	300	10	2	3	18	0.06	< 10	< 10	64	< 10	88
L22200E 18525N	201	202	185	< 1 < 0.01		9	250	14	4	2	14	0.03	< 10	< 10	48	< 10	68
L22200E 18550N	201	202	150	< 1 < 0.01		16	180	10	16	3	12	0.04	< 10	< 10	47	< 10	50
L22200E 18575N	201	202	215	< 1 < 0.01		21	160	10	20	4	13	0.05	< 10	< 10	44	< 10	60
L22200E 18600N	201	202	215	< 1 < 0.01		25	220	8	6	2	10	0.04	< 10	< 10	40	< 10	58

CERTIFICATION: _____



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project :
Comments: ATTN: RICK DIMENT CC: L. JAMRICH

Page : 3-A
Total F : 6
Certificate No. : 25-AUG-97
Invoice No. : 19738002
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS

A9738002

SAMPLE	PREP CODE	Au ppb fusion FA+AA wt. gm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
L22200E 18625N	201 202	< 5 10.00	0.2	0.64	< 2	500	< 0.5	< 2	0.30	0.5	4	9	19	0.62	< 10	110	0.07	10	0.09
L22200E 18650N	201 202	15 30.00	0.2	1.55	16	280	< 0.5	< 2	0.63	2.5	7	29	20	1.69	< 10	50	0.08	20	0.62
L22200E 18675N	201 202	5 30.00	< 0.2	1.54	< 2	590	< 0.5	< 2	0.51	0.5	13	25	14	2.07	< 10	150	0.07	10	0.45
L22200E 18700N	201 202	< 5 30.00	0.2	1.47	2	210	< 0.5	< 2	0.12	< 0.5	8	24	19	2.64	< 10	30	0.06	10	0.40
L22200E 18725N	201 202	< 5 30.00	< 0.2	1.50	< 2	350	< 0.5	< 2	0.06	< 0.5	6	18	10	2.50	< 10	10	0.06	20	0.19
L22200E 18750N	201 202	< 5 30.00	< 0.2	0.97	< 2	570	< 0.5	< 2	0.37	< 0.5	4	15	10	1.60	< 10	110	0.04	10	0.11
L22200E 18775N	201 202	< 5 30.00	< 0.2	3.02	8	250	< 0.5	< 2	0.10	0.5	11	40	12	3.96	< 10	70	0.07	10	0.46
L22200E 18800N	201 202	< 5 30.00	< 0.2	2.19	2	230	< 0.5	< 2	0.12	< 0.5	9	30	6	2.93	< 10	30	0.06	10	0.34
L22200E 18825N	201 202	5 30.00	< 0.2	1.94	6	250	< 0.5	< 2	0.07	< 0.5	8	26	14	3.63	< 10	60	0.09	10	0.23
L22200E 18850N	201 202	< 5 30.00	< 0.2	1.70	2	220	< 0.5	< 2	0.08	< 0.5	6	24	14	2.41	< 10	60	0.10	30	0.28
L22200E 18875N	201 202	< 5 30.00	< 0.2	2.07	8	170	0.5	< 2	0.17	< 0.5	8	29	18	2.60	< 10	90	0.06	10	0.46
L22200E 18900N	201 202	< 5 10.00	0.2	1.26	< 2	470	0.5	< 2	0.27	0.5	7	22	26	1.99	< 10	180	0.08	20	0.27
L22200E 18925N	201 202	< 5 30.00	< 0.2	1.30	6	210	< 0.5	< 2	0.17	< 0.5	10	25	18	2.40	< 10	40	0.09	20	0.42
L22200E 18950N	201 202	5 30.00	0.6	2.40	6	570	0.5	< 2	0.37	< 0.5	13	47	32	3.46	< 10	250	0.17	20	0.67
L22200E 18975N	201 202	< 5 30.00	0.2	1.42	2	300	< 0.5	< 2	0.18	0.5	22	24	19	2.17	< 10	190	0.07	10	0.29
L22200E 19000N	201 202	< 5 10.00	0.2	1.08	< 2	190	< 0.5	< 2	0.12	< 0.5	3	17	13	1.16	< 10	190	0.05	10	0.17
L22200E 19025N	201 202	< 5 30.00	< 0.2	0.71	16	250	< 0.5	< 2	0.08	< 0.5	19	12	31	2.82	< 10	90	0.11	10	0.15
L22200E 19050N	201 202	< 5 30.00	< 0.2	0.75	12	160	< 0.5	< 2	0.04	< 0.5	15	13	22	2.52	< 10	30	0.08	10	0.17
L22200E 19075N	201 202	5 30.00	0.2	1.23	12	280	< 0.5	< 2	0.12	< 0.5	6	21	18	1.86	< 10	230	0.07	10	0.31
L22200E 19100N	201 202	< 5 30.00	0.4	1.22	< 2	300	< 0.5	< 2	0.12	< 0.5	5	21	16	1.77	< 10	200	0.06	< 10	0.29
L22200E 19125N	201 202	5 30.00	< 0.2	1.50	18	330	0.5	< 2	0.16	< 0.5	11	22	22	2.83	< 10	170	0.11	10	0.30
L22200E 19150N	201 202	< 5 30.00	< 0.2	1.54	2	320	< 0.5	< 2	0.14	< 0.5	5	22	12	1.87	< 10	80	0.08	10	0.23
L22200E 19175N	201 202	< 5 30.00	< 0.2	1.59	8	180	< 0.5	< 2	0.13	< 0.5	6	25	12	2.37	< 10	50	0.07	10	0.32
L22200E 19200N	201 202	< 5 30.00	< 0.2	1.55	10	80	< 0.5	< 2	0.11	< 0.5	6	24	7	2.55	< 10	30	0.04	10	0.30
L22200E 19225N	201 202	< 5 30.00	< 0.2	1.08	6	80	< 0.5	< 2	0.06	< 0.5	4	18	6	2.16	< 10	20	0.04	10	0.20
L22200E 19250N	201 202	10 30.00	0.2	1.42	88	560	0.5	< 2	0.38	1.5	20	22	14	5.19	< 10	220	0.06	10	0.35
L22200E 19275N	201 202	10 30.00	< 0.2	1.64	36	460	0.5	< 2	0.32	1.0	12	24	19	2.94	< 10	150	0.12	10	0.46
L22200E 19300N	201 202	5 30.00	< 0.2	1.56	16	290	< 0.5	< 2	0.32	< 0.5	6	27	11	2.04	< 10	190	0.05	10	0.47
L22200E 19325N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22200E 19350N	201 202	20 30.00	< 0.2	1.63	12	350	< 0.5	< 2	0.38	< 0.5	6	28	10	2.02	< 10	190	0.05	10	0.47
L22200E 19375N	201 202	55 30.00	< 0.2	1.62	40	280	< 0.5	< 2	0.31	< 0.5	7	29	14	2.25	< 10	220	0.06	10	0.50
L22200E 19400N	201 202	45 30.00	< 0.2	1.61	34	420	< 0.5	< 2	0.35	< 0.5	8	28	13	2.30	< 10	250	0.05	10	0.48
L22200E 19425N	201 202	15 30.00	< 0.2	1.14	18	230	< 0.5	< 2	0.30	< 0.5	5	21	11	1.76	< 10	170	0.04	10	0.40
L22200E 19450N	201 202	15 30.00	< 0.2	1.49	22	300	< 0.5	< 2	0.28	< 0.5	7	27	16	2.34	< 10	90	0.06	10	0.46
L22300E 18000N	201 202	< 5 30.00	0.8	1.29	2	270	0.5	< 2	2.25	5.5	7	43	65	1.36	< 10	80	0.04	10	0.66
L22300E 18025N	201 202	< 5 10.00	1.2	1.19	< 2	220	0.5	< 2	2.54	3.0	6	43	65	1.31	< 10	100	0.06	10	0.81
L22300E 18050N	201 202	< 5 10.00	1.2	1.32	< 2	250	0.5	< 2	2.25	3.0	6	39	56	1.34	< 10	110	0.06	10	0.80
L22300E 18075N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22300E 18100N	201 202	< 5 30.00	0.4	2.02	6	340	0.5	< 2	1.27	0.5	9	31	25	2.41	< 10	50	0.09	10	1.19
L22300E 18125N	201 202	< 5 30.00	< 0.2	1.96	2	260	0.5	< 2	0.43	< 0.5	8	29	18	2.20	< 10	40	0.06	10	0.59

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: VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT CC: L. JAMRICH

Page 3-B
Total 6
Certific 25-AUG-97
Invoice No. 19738002
P.O. Number
Account : OQN

CERTIFICATE OF ANALYSIS A9738002

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	N	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L22200E 18625W	201	202	65	< 1	0.01	15	1020	6	6	2	33	< 0.01	< 10	< 10	7	< 10	28
L22200E 18650W	201	202	205	< 1	< 0.01	33	910	10	86	3	44	0.04	< 10	< 10	69	< 10	236
L22200E 18675W	201	202	640	< 1	< 0.01	22	850	12	4	4	78	0.04	< 10	< 10	38	< 10	112
L22200E 18700W	201	202	165	< 1	< 0.01	19	310	8	2	2	19	0.03	< 10	< 10	37	< 10	64
L22200E 18725W	201	202	130	1	< 0.01	10	300	10	< 2	2	17	0.01	< 10	< 10	42	< 10	52
L22200E 18750W	201	202	255	< 1	< 0.01	12	370	6	< 2	1	45	0.03	< 10	< 10	42	< 10	36
L22200E 18775W	201	202	695	< 1	< 0.01	18	470	12	< 2	4	13	0.07	< 10	< 10	74	< 10	100
L22200E 18800W	201	202	340	< 1	< 0.01	12	300	10	< 2	3	14	0.06	< 10	< 10	65	< 10	106
L22200E 18825W	201	202	315	1	< 0.01	16	530	14	< 2	3	24	0.03	< 10	< 10	55	< 10	100
L22200E 18850W	201	202	155	1	< 0.01	16	330	14	< 2	3	22	0.03	< 10	< 10	45	< 10	48
L22200E 18875W	201	202	210	< 1	< 0.01	21	450	10	< 2	3	17	0.06	< 10	< 10	43	< 10	68
L22200E 18900W	201	202	165	< 1	0.01	20	1000	14	< 2	3	37	0.03	< 10	< 10	29	< 10	50
L22200E 18925W	201	202	290	< 1	< 0.01	22	510	10	< 2	3	23	0.04	< 10	< 10	38	< 10	72
L22200E 18950W	201	202	420	< 1	0.01	38	1060	18	< 2	6	48	0.04	< 10	< 10	62	< 10	114
L22200E 18975W	201	202	920	< 1	0.01	17	770	16	10	1	22	0.02	< 10	< 10	39	< 10	60
L22200E 19000W	201	202	55	< 1	< 0.01	9	670	8	2	1	15	0.01	< 10	< 10	18	< 10	24
L22200E 19025W	201	202	990	1	< 0.01	43	430	18	2	3	44	< 0.01	< 10	< 10	21	< 10	114
L22200E 19050W	201	202	485	1	< 0.01	28	350	16	2	2	17	< 0.01	< 10	< 10	22	< 10	98
L22200E 19075W	201	202	100	< 1	< 0.01	20	570	10	< 2	3	29	0.01	< 10	< 10	24	< 10	72
L22200E 19100W	201	202	110	< 1	< 0.01	19	650	10	< 2	2	17	0.01	< 10	< 10	24	< 10	56
L22200E 19125W	201	202	385	1	< 0.01	27	570	16	< 2	3	34	0.01	< 10	< 10	38	< 10	86
L22200E 19150W	201	202	155	< 1	< 0.01	14	420	10	< 2	2	36	0.01	< 10	< 10	37	< 10	44
L22200E 19175W	201	202	175	< 1	< 0.01	15	570	8	< 2	2	24	0.02	< 10	< 10	41	< 10	54
L22200E 19200W	201	202	185	< 1	< 0.01	11	270	10	< 2	2	13	0.06	< 10	< 10	48	< 10	50
L22200E 19225W	201	202	100	< 1	< 0.01	8	240	10	< 2	1	10	0.04	< 10	< 10	54	< 10	40
L22200E 19250W	201	202	1745	1	< 0.01	33	790	16	20	4	65	0.01	< 10	< 10	56	< 10	146
L22200E 19275W	201	202	440	1	0.01	36	550	14	14	4	67	< 0.01	< 10	< 10	52	< 10	164
L22200E 19300W	201	202	190	< 1	< 0.01	16	520	8	2	4	27	0.06	< 10	< 10	42	< 10	66
L22200E 19325W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22200E 19350W	201	202	255	< 1	< 0.01	16	530	12	2	4	37	0.06	< 10	< 10	46	< 10	66
L22200E 19375W	201	202	190	< 1	< 0.01	19	610	10	8	4	27	0.06	< 10	< 10	45	< 10	74
L22200E 19400W	201	202	310	< 1	< 0.01	19	570	10	10	4	39	0.05	< 10	< 10	47	< 10	68
L22200E 19425W	201	202	135	< 1	< 0.01	14	580	8	< 2	3	27	0.05	< 10	< 10	38	< 10	54
L22200E 19450W	201	202	215	< 1	< 0.01	19	490	10	< 2	4	24	0.06	< 10	< 10	49	< 10	64
L22300E 18000W	201	202	510	< 1	0.01	55	1280	8	< 2	3	64	0.03	< 10	< 10	172	< 10	296
L22300E 18025W	201	202	240	1	0.01	58	1380	6	2	3	60	0.03	< 10	< 10	95	< 10	236
L22300E 18050W	201	202	285	< 1	0.01	50	1230	6	< 2	3	59	0.03	< 10	< 10	80	< 10	220
L22300E 18075W	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22300E 18100W	201	202	635	2	< 0.01	27	650	10	< 2	4	34	0.03	< 10	< 10	59	< 10	114
L22300E 18125W	201	202	345	< 1	< 0.01	24	650	8	< 2	4	24	0.05	< 10	< 10	44	< 10	68

CERTIFICATION:

Hart Becker



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Page : 4-A
Total Pages : 6
Certificate No. : 25-AUG-97
Invoice No. : 19738002
P.O. Number :
Account : OQN

Project :

Comments: ATTN: RICK DIMENT CC: L. JAMRICH

CERTIFICATE OF ANALYSIS

A9738002

SAMPLE	PREP		Au ppb fusion	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	CODE		FA+AA wt. gm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L22300E 18150N	201	202	10 30.00	< 0.2	1.75	12	120	< 0.5	< 2	0.11	< 0.5	7	27	16	2.75	< 10	10	0.06	10	0.58
L22300E 18175N	201	202	< 5 30.00	< 0.2	1.25	10	160	< 0.5	< 2	0.19	1.0	5	23	17	2.07	< 10	40	0.06	10	0.29
L22300E 18200N	201	202	< 5 10.00	0.8	0.72	20	280	0.5	< 2	3.53	6.0	4	17	57	1.01	< 10	180	0.06	10	0.59
L22300E 18225N	201	202	20 10.00	0.2	0.60	12	260	< 0.5	< 2	4.14	1.0	3	13	31	0.80	< 10	80	0.03	< 10	0.42
L22300E 18250N	201	202	< 5 30.00	0.2	1.71	6	170	0.5	< 2	1.91	< 0.5	7	35	25	1.80	< 10	60	0.07	10	1.49
L22300E 18275N	201	202	240 30.00	1.8	1.76	330	300	0.5	< 2	0.89	0.5	7	35	39	2.09	< 10	230	0.09	20	1.18
L22300E 18300N	201	202	95 30.00	1.6	1.11	188	250	0.5	< 2	1.39	1.0	11	22	38	1.74	< 10	150	0.09	10	0.58
L22300E 18325N	201	202	< 5 30.00	0.4	1.72	8	230	< 0.5	< 2	0.10	< 0.5	4	19	8	2.48	< 10	10	0.07	20	0.25
L22300E 18350N	201	202	< 5 30.00	< 0.2	2.07	10	220	< 0.5	< 2	0.10	< 0.5	7	25	12	2.78	< 10	10	0.08	10	0.34
L22300E 18375N	201	202	< 5 30.00	< 0.2	2.53	12	230	< 0.5	< 2	0.10	< 0.5	6	31	15	3.12	< 10	10	0.08	10	0.40
L22300E 18400N	201	202	< 5 30.00	0.2	3.78	16	370	1.0	< 2	0.11	< 0.5	23	43	29	3.75	< 10	20	0.12	10	0.54
L22300E 18425N	201	202	< 5 30.00	0.2	2.78	20	280	0.5	< 2	0.12	< 0.5	17	34	10	3.40	< 10	20	0.07	10	0.39
L22300E 18450N	201	202	< 5 30.00	0.2	2.16	12	200	< 0.5	< 2	0.08	< 0.5	5	26	13	3.08	< 10	40	0.07	10	0.29
L22300E 18475N	201	202	< 5 30.00	< 0.2	1.25	6	150	< 0.5	< 2	0.06	< 0.5	4	19	10	2.90	< 10	10	0.07	10	0.16
L22300E 18500N	201	202	< 5 30.00	< 0.2	2.10	16	120	< 0.5	< 2	0.07	< 0.5	6	35	14	4.64	< 10	40	0.07	10	0.41
L22300E 18525N	201	202	< 5 30.00	0.2	2.32	8	130	< 0.5	< 2	0.11	< 0.5	11	30	8	3.21	< 10	10	0.05	10	0.30
L22300E 18550N	201	202	< 5 30.00	< 0.2	1.78	4	140	< 0.5	< 2	0.09	< 0.5	3	21	7	2.33	< 10	20	0.06	20	0.22
L22300E 18575N	201	202	< 5 30.00	< 0.2	2.78	10	170	< 0.5	< 2	0.13	< 0.5	7	33	8	4.30	< 10	30	0.07	10	0.32
L22300E 18600N	201	202	< 5 30.00	0.2	2.19	10	140	< 0.5	< 2	0.09	< 0.5	7	29	12	3.46	< 10	20	0.05	10	0.33
L22300E 18625N	201	202	< 5 10.00	< 0.2	1.82	14	230	0.5	< 2	0.11	< 0.5	14	28	35	4.10	< 10	40	0.11	20	0.41
L22300E 18650N	201	202	< 5 30.00	< 0.2	1.11	8	170	< 0.5	< 2	0.22	< 0.5	11	23	20	2.26	< 10	10	0.07	10	0.43
L22300E 18675N	201	202	< 5 30.00	< 0.2	1.25	8	310	< 0.5	< 2	0.24	< 0.5	7	22	21	1.89	< 10	30	0.07	10	0.36
L22300E 18700N	201	202	15 30.00	0.2	1.73	26	310	0.5	< 2	0.39	1.0	10	30	21	1.94	< 10	90	0.07	10	0.58
L22300E 18725N	201	202	15 30.00	0.2	1.62	18	350	0.5	< 2	0.73	2.0	7	27	27	1.69	< 10	230	0.10	10	0.59
L22300E 18750N	201	202	< 5 30.00	0.2	1.45	6	340	< 0.5	< 2	0.16	0.5	6	19	13	2.39	< 10	30	0.10	10	0.19
L22300E 18775N	201	202	< 5 30.00	< 0.2	1.83	10	220	< 0.5	< 2	0.12	< 0.5	6	24	11	3.05	< 10	< 10	0.10	10	0.34
L22300E 18800N	201	202	< 5 30.00	0.2	2.13	8	280	0.5	< 2	0.08	< 0.5	10	28	19	3.62	< 10	30	0.12	20	0.37
L22300E 18825N	201	202	< 5 30.00	< 0.2	1.71	8	170	< 0.5	< 2	0.10	< 0.5	6	24	8	2.62	< 10	< 10	0.06	10	0.27
L22300E 18850N	201	202	< 5 30.00	0.6	2.29	12	210	< 0.5	< 2	0.12	< 0.5	9	31	10	3.84	< 10	30	0.06	10	0.38
L22300E 18875N	201	202	< 5 30.00	0.6	3.44	14	250	0.5	< 2	0.12	< 0.5	12	42	22	3.56	< 10	130	0.08	10	0.44
L22300E 18900N	201	202	< 5 30.00	< 0.2	1.96	10	150	< 0.5	< 2	0.05	< 0.5	11	24	22	3.74	< 10	10	0.10	20	0.36
L22300E 18925N	201	202	30 10.00	< 0.2	1.14	10	100	< 0.5	< 2	0.06	< 0.5	7	23	19	2.72	< 10	20	0.06	10	0.19
L22300E 18950N	201	202	< 5 30.00	< 0.2	1.43	8	150	< 0.5	< 2	0.09	< 0.5	13	20	21	3.22	< 10	30	0.08	10	0.29
L22300E 18975N	201	202	< 5 10.00	0.2	0.64	30	540	< 0.5	< 2	0.05	0.5	6	9	41	1.77	< 10	130	0.08	10	0.04
L22300E 19000N	201	202	< 5 30.00	< 0.2	0.57	18	400	< 0.5	< 2	0.03	0.5	8	10	29	2.61	< 10	30	0.09	10	0.07
L22300E 19025N	201	202	< 5 30.00	0.2	0.87	16	580	< 0.5	< 2	0.10	0.5	7	15	28	2.22	< 10	160	0.09	10	0.22
L22300E 19050N	201	202	< 5 10.00	0.4	0.83	28	700	< 0.5	< 2	0.23	1.5	6	15	19	2.40	< 10	180	0.08	10	0.19
L22300E 19075N	201	202	< 5 30.00	< 0.2	0.84	26	860	0.5	< 2	0.11	< 0.5	9	14	22	3.46	< 10	20	0.11	20	0.11
L22300E 19100N	201	202	< 5 10.00	0.6	0.89	6	520	0.5	< 2	2.75	0.5	4	10	15	1.31	< 10	150	0.05	< 10	0.40
L22300E 19125N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION: L. Jamrich



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page: 4-B
 Total F: 6
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Project:
 Comments: ATTN: RICK DIMENT CC: L. JAMRICH

CERTIFICATE OF ANALYSIS A9738002

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L22300E 18150N	201	202	170	1 < 0.01		24	290	8	< 2	3	11	0.04	< 10	< 10	45	< 10	70
L22300E 18175N	201	202	190	8 < 0.01		24	580	12	4	1	15	0.04	< 10	< 10	76	< 10	112
L22300E 18200N	201	202	210	10 < 0.01		43	900	2	42	2	77	0.01	< 10	< 10	113	< 10	250
L22300E 18225N	201	202	290	< 1 < 0.01		19	800	< 2	26	1	79	0.01	< 10	< 10	21	< 10	88
L22300E 18250N	201	202	390	1 < 0.01		20	820	6	8	4	60	0.05	< 10	< 10	71	< 10	80
L22300E 18275N	201	202	445	2 < 0.01		30	740	14	292	5	44	0.02	< 10	< 10	62	< 10	120
L22300E 18300N	201	202	865	3 < 0.01		28	1000	12	248	3	44	0.01	< 10	< 10	39	< 10	110
L22300E 18325N	201	202	135	< 1 < 0.01		9	210	8	6	2	11	0.02	< 10	< 10	45	< 10	56
L22300E 18350N	201	202	175	1 < 0.01		13	240	10	4	3	12	0.04	< 10	< 10	50	< 10	60
L22300E 18375N	201	202	195	< 1 < 0.01		14	200	10	8	3	14	0.05	< 10	< 10	59	< 10	54
L22300E 18400N	201	202	325	1 < 0.01		45	350	12	6	4	16	0.07	< 10	< 10	70	< 10	112
L22300E 18425N	201	202	260	1 < 0.01		17	240	8	2	3	14	0.08	< 10	< 10	69	< 10	118
L22300E 18450N	201	202	195	1 < 0.01		10	350	10	4	3	10	0.04	< 10	< 10	56	< 10	62
L22300E 18475N	201	202	160	1 < 0.01		6	560	10	< 2	1	11	0.04	< 10	< 10	68	< 10	44
L22300E 18500N	201	202	385	1 < 0.01		13	610	14	< 2	3	12	0.05	< 10	< 10	63	< 10	68
L22300E 18525N	201	202	390	1 < 0.01		10	350	10	< 2	3	13	0.08	< 10	< 10	71	< 10	78
L22300E 18550N	201	202	175	< 1 < 0.01		6	270	10	< 2	2	14	0.03	< 10	< 10	54	< 10	40
L22300E 18575N	201	202	295	< 1 < 0.01		11	400	14	< 2	3	16	0.10	< 10	< 10	80	< 10	72
L22300E 18600N	201	202	240	< 1 < 0.01		14	290	12	< 2	3	11	0.07	< 10	< 10	59	< 10	60
L22300E 18625N	201	202	350	1 < 0.01		25	610	16	2	3	34	0.04	< 10	< 10	50	< 10	94
L22300E 18650N	201	202	380	< 1 < 0.01		20	610	6	2	3	19	0.05	< 10	< 10	36	< 10	68
L22300E 18675N	201	202	220	< 1 < 0.01		17	390	10	< 2	3	27	0.05	< 10	< 10	37	< 10	56
L22300E 18700N	201	202	340	1 < 0.01		33	700	10	66	3	35	0.04	< 10	< 10	78	< 10	240
L22300E 18725N	201	202	175	< 1 < 0.01		35	790	10	50	4	48	0.04	< 10	< 10	62	< 10	234
L22300E 18750N	201	202	320	1 < 0.01		10	310	12	< 2	2	23	0.03	< 10	< 10	49	< 10	50
L22300E 18775N	201	202	180	< 1 < 0.01		13	220	8	< 2	3	17	0.05	< 10	< 10	51	< 10	50
L22300E 18800N	201	202	270	1 < 0.01		18	380	10	< 2	3	18	0.03	< 10	< 10	53	< 10	66
L22300E 18825N	201	202	215	< 1 < 0.01		10	190	8	< 2	2	14	0.06	< 10	< 10	54	< 10	48
L22300E 18850N	201	202	255	< 1 < 0.01		14	260	12	< 2	3	14	0.08	< 10	< 10	67	< 10	86
L22300E 18875N	201	202	395	1 < 0.01		22	420	10	< 2	4	15	0.07	< 10	< 10	59	< 10	74
L22300E 18900N	201	202	615	1 < 0.01		18	540	16	< 2	2	8	0.01	< 10	< 10	50	< 10	96
L22300E 18925N	201	202	245	1 < 0.01		16	610	8	< 2	1	12	0.01	< 10	< 10	46	< 10	58
L22300E 18950N	201	202	695	1 < 0.01		22	570	16	< 2	2	17	0.01	< 10	< 10	35	< 10	80
L22300E 18975N	201	202	85	2 < 0.01		20	800	14	< 2	1	65	< 0.01	< 10	< 10	23	< 10	110
L22300E 19000N	201	202	145	2 < 0.01		26	410	12	2	1	51	< 0.01	< 10	< 10	36	< 10	146
L22300E 19025N	201	202	165	2 < 0.01		20	570	16	< 2	3	90	0.01	< 10	< 10	34	< 10	102
L22300E 19050N	201	202	190	3 < 0.01		16	850	14	< 2	3	86	< 0.01	< 10	< 10	43	< 10	74
L22300E 19075N	201	202	180	5 < 0.01		33	550	16	2	3	159	< 0.01	< 10	< 10	45	< 10	220
L22300E 19100N	201	202	660	< 1 < 0.01		10	740	18	< 2	4	511	0.01	< 10	< 10	19	< 10	42
L22300E 19125N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Project :
 Comments: ATTN: RICK DIMENT CC: L. JAMRICH

Page : 5-A
 Total P : 6
 Certificate No: 25-AUG-97
 Invoice No. : 19738002
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9738002

SAMPLE	PREP CODE		Au ppb fusion		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA	AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
L22300E 19150N	201	202	10	30.00	0.2	1.43	26	460	0.5	< 2	0.38	< 0.5	7	38	20	2.71	< 10	50	0.10	20	0.42
L22300E 19175N	201	202	< 5	30.00	< 0.2	1.57	34	610	1.5	< 2	0.50	0.5	16	66	36	5.04	< 10	20	0.12	30	0.52
L22300E 19200N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22300E 19225N	201	202	< 5	30.00	< 0.2	1.15	10	430	< 0.5	< 2	0.28	< 0.5	8	27	15	2.31	< 10	30	0.07	20	0.40
L22300E 19250N	201	202	< 5	30.00	< 0.2	1.13	8	310	< 0.5	< 2	0.29	< 0.5	6	26	15	2.03	< 10	30	0.08	20	0.40
L22300E 19275N	201	202	10	30.00	0.2	1.47	10	510	< 0.5	< 2	0.25	0.5	10	23	17	3.59	< 10	180	0.09	10	0.38
L22300E 19300N	201	202	15	30.00	< 0.2	1.42	26	450	< 0.5	< 2	0.40	0.5	10	22	16	2.53	< 10	210	0.10	10	0.42
L22300E 19325N	201	202	10	30.00	< 0.2	1.52	34	260	< 0.5	< 2	0.36	< 0.5	7	26	13	3.68	< 10	60	0.07	10	0.48
L22300E 19350N	201	202	< 5	30.00	< 0.2	1.32	10	250	< 0.5	< 2	0.32	< 0.5	7	24	18	2.54	< 10	10	0.06	10	0.45
L22300E 19375N	201	202	< 5	30.00	< 0.2	1.29	10	210	< 0.5	< 2	0.30	< 0.5	7	24	20	2.43	< 10	10	0.06	10	0.46
L22300E 19400N	201	202	< 5	30.00	< 0.2	1.33	10	380	< 0.5	< 2	0.32	< 0.5	8	26	24	2.43	< 10	< 10	0.05	10	0.48
L22300E 19425N	201	202	< 5	30.00	< 0.2	1.17	10	360	< 0.5	< 2	0.31	< 0.5	8	23	24	2.31	< 10	10	0.05	10	0.47
L22300E 19450N	201	202	< 5	30.00	< 0.2	1.40	10	410	< 0.5	< 2	0.26	< 0.5	12	26	23	2.66	< 10	30	0.06	10	0.50
L22400E 18000N	201	202	< 5	10.00	0.6	1.09	4	270	< 0.5	< 2	2.20	2.0	7	27	34	1.28	< 10	70	0.04	10	0.52
L22400E 18025N	201	202	< 5	10.00	0.6	1.28	6	310	< 0.5	< 2	2.26	1.5	7	29	33	1.42	< 10	60	0.04	10	0.56
L22400E 18050N	201	202	< 5	30.00	0.2	1.77	6	230	0.5	< 2	1.06	< 0.5	8	30	31	2.16	< 10	160	0.10	20	1.02
L22400E 18075N	201	202	< 5	30.00	0.2	1.83	10	300	0.5	< 2	1.15	0.5	8	31	30	2.38	< 10	70	0.14	20	1.12
L22400E 18100N	201	202	< 5	30.00	0.2	1.75	12	250	0.5	< 2	1.85	0.5	8	31	28	2.16	< 10	60	0.12	10	1.65
L22400E 18125N	201	202	< 5	30.00	< 0.2	1.82	10	560	1.0	< 2	1.70	1.0	7	42	25	2.45	< 10	70	0.12	20	1.15
L22400E 18150N	201	202	< 5	10.00	1.0	2.10	12	730	1.5	< 2	1.52	3.5	7	54	63	2.62	< 10	280	0.09	30	1.05
L22400E 18175N	201	202	25	10.00	< 0.2	0.96	458	180	< 0.5	< 2	0.15	< 0.5	5	18	15	2.39	< 10	30	0.08	20	0.20
L22400E 18200N	201	202	120	30.00	1.2	1.27	896	290	0.5	< 2	0.05	< 0.5	6	17	30	4.43	< 10	50	0.19	30	0.21
L22400E 18225N	201	202	40	10.00	0.2	0.91	264	120	< 0.5	< 2	0.06	< 0.5	3	15	15	1.72	< 10	50	0.07	10	0.13
L22400E 18250N	201	202	125	30.00	1.0	1.06	160	200	< 0.5	< 2	0.15	< 0.5	4	20	16	1.61	< 10	110	0.10	20	0.26
L22400E 18275N	201	202	30	10.00	0.4	1.09	54	250	0.5	< 2	1.62	1.0	6	23	24	1.33	< 10	80	0.06	10	0.61
L22400E 18300N	201	202	50	30.00	0.6	1.73	142	270	0.5	< 2	0.62	0.5	8	34	22	1.91	< 10	80	0.15	20	1.34
L22400E 18325N	201	202	< 5	30.00	< 0.2	2.14	10	310	< 0.5	< 2	0.08	< 0.5	9	26	16	2.68	< 10	< 10	0.13	30	0.36
L22400E 18350N	201	202	< 5	30.00	< 0.2	2.68	8	330	0.5	< 2	0.10	< 0.5	14	34	15	2.96	< 10	10	0.10	10	0.43
L22400E 18375N	201	202	< 5	30.00	< 0.2	2.70	14	300	0.5	< 2	0.11	< 0.5	15	35	19	3.23	< 10	20	0.09	10	0.48
L22400E 18400N	201	202	< 5	30.00	0.2	2.61	6	220	< 0.5	< 2	0.10	< 0.5	11	35	18	3.23	< 10	10	0.07	10	0.42
L22400E 18425N	201	202	< 5	10.00	< 0.2	1.31	10	210	< 0.5	< 2	0.03	< 0.5	3	21	25	2.37	< 10	30	0.10	20	0.10
L22400E 18450N	201	202	20	10.00	< 0.2	1.31	86	360	< 0.5	< 2	0.17	< 0.5	8	33	24	2.27	< 10	20	0.14	20	0.36
L22400E 18475N	201	202	< 5	30.00	< 0.2	2.36	10	580	0.5	< 2	0.14	< 0.5	13	27	21	2.93	< 10	10	0.15	20	0.40
L22400E 18500N	201	202	< 5	30.00	< 0.2	2.51	4	660	< 0.5	< 2	0.21	< 0.5	11	27	11	2.77	< 10	< 10	0.14	30	0.33
L22400E 18525N	201	202	< 5	15.00	< 0.2	2.03	6	240	< 0.5	< 2	0.10	< 0.5	8	26	8	2.92	< 10	< 10	0.08	10	0.31
L22400E 18550N	201	202	< 5	30.00	< 0.2	1.86	8	190	< 0.5	< 2	0.10	< 0.5	6	27	13	4.01	< 10	< 10	0.09	10	0.35
L22400E 18575N	201	202	< 5	30.00	< 0.2	1.31	2	230	< 0.5	< 2	0.07	< 0.5	4	18	12	2.66	< 10	< 10	0.08	20	0.16
L22400E 18600N	201	202	< 5	30.00	< 0.2	2.19	8	150	< 0.5	< 2	0.07	< 0.5	6	30	13	3.07	< 10	30	0.04	10	0.33
L22400E 18625N	201	202	< 5	30.00	< 0.2	1.67	16	90	< 0.5	< 2	0.07	< 0.5	4	24	7	3.37	< 10	< 10	0.04	10	0.27
L22400E 18650N	201	202	< 5	30.00	< 0.2	1.86	8	210	0.5	< 2	0.19	< 0.5	21	32	29	3.52	< 10	10	0.12	20	0.56

CERTIFICATION: _____



Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY INTERNATIONAL EXPLORATION

BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project:
Comments: ATTN: RICK DIMENT CC: L. JAMRICH

Pages :5-B
Total F :6
Certificate Date: 25-AUG-97
Invoice No. :19738002
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9738002

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L22300E 19150N	201 202	210	1 < 0.01		21	450	14	< 2	6	64	0.05	< 10	< 10	58	< 10	70
L22300E 19175N	201 202	395	1 < 0.01		35	660	26	2	10	90	0.06	< 10	< 10	86	< 10	136
L22300E 19200N	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22300E 19225N	201 202	350	< 1 < 0.01		20	670	12	< 2	4	58	0.04	< 10	< 10	42	< 10	88
L22300E 19250N	201 202	200	1 < 0.01		16	630	8	< 2	3	34	0.06	< 10	< 10	43	< 10	62
L22300E 19275N	201 202	350	< 1 < 0.01		25	500	12	4	4	45	0.02	< 10	< 10	44	< 10	102
L22300E 19300N	201 202	270	1 < 0.01		25	520	10	8	4	67	0.03	< 10	< 10	47	< 10	116
L22300E 19325N	201 202	175	1 < 0.01		19	690	8	2	4	32	0.07	< 10	< 10	60	< 10	70
L22300E 19350N	201 202	195	1 < 0.01		19	610	8	< 2	3	25	0.06	< 10	< 10	45	< 10	62
L22300E 19375N	201 202	230	< 1 < 0.01		20	680	8	< 2	3	24	0.06	< 10	< 10	43	< 10	70
L22300E 19400N	201 202	250	< 1 < 0.01		23	590	4	< 2	4	26	0.06	< 10	< 10	43	< 10	68
L22300E 19425N	201 202	240	< 1 < 0.01		22	620	6	< 2	3	27	0.05	< 10	< 10	39	< 10	74
L22300E 19450N	201 202	365	< 1 < 0.01		23	550	8	< 2	4	25	0.05	< 10	< 10	44	< 10	84
L22400E 18000N	201 202	410	1 < 0.01		36	860	2	< 2	3	63	0.03	< 10	< 10	67	< 10	170
L22400E 18025N	201 202	325	1 < 0.01		37	780	4	< 2	3	66	0.03	< 10	< 10	72	< 10	156
L22400E 18050N	201 202	260	2 < 0.01		31	560	6	2	5	41	0.04	< 10	< 10	53	< 10	114
L22400E 18075N	201 202	230	4 < 0.01		36	640	8	2	5	43	0.04	< 10	< 10	66	< 10	120
L22400E 18100N	201 202	340	4 < 0.01		34	1050	6	2	4	64	0.04	< 10	< 10	66	< 10	116
L22400E 18125N	201 202	275	5 < 0.01		41	710	12	10	6	60	0.06	< 10	< 10	88	< 10	250
L22400E 18150N	201 202	450	3 < 0.01		41	960	16	26	7	63	0.07	< 10	< 10	126	< 10	250
L22400E 18175N	201 202	215	2 < 0.01		11	420	28	606	1	18	0.03	< 10	< 10	52	< 10	64
L22400E 18200N	201 202	250	2 < 0.01		16	690	32	328	2	83	< 0.01	< 10	< 10	27	< 10	86
L22400E 18225N	201 202	120	1 < 0.01		7	600	16	232	< 1	18	0.01	< 10	< 10	27	< 10	34
L22400E 18250N	201 202	125	< 1 < 0.01		12	560	14	84	1	31	0.01	< 10	< 10	25	< 10	46
L22400E 18275N	201 202	405	1 < 0.01		23	730	6	62	3	49	0.02	< 10	< 10	51	< 10	118
L22400E 18300N	201 202	375	2 < 0.01		22	740	10	192	4	48	0.03	< 10	< 10	56	< 10	116
L22400E 18325N	201 202	140	< 1 < 0.01		17	210	14	2	3	15	0.02	< 10	< 10	44	< 10	82
L22400E 18350N	201 202	220	< 1 < 0.01		26	190	10	2	3	15	0.04	< 10	< 10	54	< 10	100
L22400E 18375N	201 202	290	1 < 0.01		25	210	10	< 2	4	16	0.06	< 10	< 10	56	< 10	76
L22400E 18400N	201 202	260	1 < 0.01		19	260	12	< 2	3	14	0.06	< 10	< 10	61	< 10	74
L22400E 18425N	201 202	80	1 < 0.01		9	720	16	6	1	13	0.01	< 10	< 10	43	< 10	60
L22400E 18450N	201 202	190	1 < 0.01		17	490	12	6	2	32	0.03	< 10	< 10	43	< 10	68
L22400E 18475N	201 202	345	1 < 0.01		23	390	12	< 2	3	27	0.01	< 10	< 10	43	< 10	112
L22400E 18500N	201 202	315	1 < 0.01		13	360	14	< 2	3	29	0.01	< 10	< 10	50	< 10	104
L22400E 18525N	201 202	190	< 1 < 0.01		11	230	10	< 2	3	15	0.05	< 10	< 10	57	< 10	110
L22400E 18550N	201 202	210	< 1 < 0.01		12	440	12	< 2	2	14	0.05	< 10	< 10	60	< 10	98
L22400E 18575N	201 202	245	1 < 0.01		9	500	14	< 2	1	13	0.02	< 10	< 10	49	< 10	66
L22400E 18600N	201 202	235	1 < 0.01		13	340	10	< 2	3	10	0.04	< 10	< 10	53	< 10	58
L22400E 18625N	201 202	185	1 < 0.01		8	250	10	< 2	2	10	0.07	< 10	< 10	74	< 10	36
L22400E 18650N	201 202	650	1 < 0.01		28	580	20	8	3	22	0.06	< 10	< 10	48	< 10	108

CERTIFICATION: _____



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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
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Project:
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Page: 6-A
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CERTIFICATE OF ANALYSIS A9738002

SAMPLE	PREP CODE		Au ppb fusion	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	
	FA+AA	wt. gm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	
L22400E 18675M	201	202	< 5	30.00	< 0.2	1.60	8	200	< 0.5	< 2	0.25	< 0.5	7	26	20	2.22	< 10	30	0.08	10	0.45
L22400E 18700M	201	202	< 5	30.00	< 0.2	1.57	6	220	< 0.5	< 2	0.24	< 0.5	7	26	20	2.22	< 10	20	0.08	10	0.44
L22400E 18725M	201	202	< 5	30.00	< 0.2	1.73	6	200	< 0.5	< 2	0.26	< 0.5	8	28	20	2.46	< 10	10	0.09	10	0.48
L22400E 18750M	201	202	< 5	30.00	< 0.2	1.55	8	310	< 0.5	< 2	0.28	< 0.5	10	29	26	2.66	< 10	30	0.11	20	0.48
L22400E 18775M	201	202	10	30.00	0.2	1.47	8	340	< 0.5	< 2	0.44	1.5	9	29	33	1.94	< 10	70	0.10	20	0.48
L22400E 18800M	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22400E 18825M	201	202	15	30.00	0.4	1.72	14	390	< 0.5	< 2	0.94	1.5	10	29	26	1.87	< 10	110	0.11	10	0.60
L22400E 18850M	201	202	< 5	30.00	0.8	1.87	6	1290	0.5	< 2	0.33	0.5	9	25	45	2.79	< 10	220	0.13	10	0.33
L22400E 18875M	201	202	< 5	30.00	0.6	1.04	12	1400	0.5	< 2	0.32	1.5	12	15	35	2.66	< 10	140	0.13	10	0.20
L22400E 18900M	201	202	< 5	30.00	< 0.2	1.02	18	760	0.5	< 2	0.07	1.5	8	15	38	2.45	< 10	90	0.12	10	0.14
L22400E 18925M	201	202	< 5	30.00	1.2	1.39	64	680	0.5	< 2	0.05	4.0	19	27	54	5.41	< 10	90	0.07	10	0.15
L22400E 18950M	201	202	< 5	30.00	< 0.2	1.72	108	860	1.5	< 2	0.06	4.0	12	23	32	4.21	< 10	60	0.06	30	0.14
L22400E 18975M	201	202	< 5	30.00	< 0.2	1.21	16	530	< 0.5	< 2	0.16	1.0	9	22	24	2.49	< 10	50	0.06	20	0.33
L22400E 19000M	201	202	< 5	30.00	< 0.2	1.81	12	290	< 0.5	< 2	0.13	< 0.5	5	25	6	3.35	< 10	10	0.04	10	0.33
L22400E 19025M	201	202	< 5	30.00	< 0.2	1.60	2	260	< 0.5	< 2	0.11	< 0.5	3	22	8	1.83	< 10	30	0.06	10	0.25
L22400E 19050M	201	202	< 5	30.00	0.2	1.36	12	670	0.5	< 2	0.51	0.5	7	19	12	2.13	< 10	60	0.14	20	0.29
L22400E 19075M	201	202	< 5	30.00	0.2	2.02	42	250	0.5	< 2	0.16	< 0.5	7	29	16	3.84	< 10	40	0.08	10	0.34
L22400E 19100M	201	202	< 5	30.00	< 0.2	1.61	10	160	< 0.5	< 2	0.15	< 0.5	5	24	9	2.55	< 10	10	0.05	10	0.31
L22400E 19125M	201	202	< 5	30.00	< 0.2	1.70	12	150	< 0.5	< 2	0.15	< 0.5	6	26	11	2.38	< 10	10	0.05	10	0.38
L22400E 19150M	201	202	< 5	30.00	< 0.2	1.62	42	170	0.5	< 2	0.12	< 0.5	7	49	9	3.42	< 10	< 10	0.04	20	0.36
L22400E 19175M	201	202	< 5	15.00	0.2	0.31	< 2	160	< 0.5	< 2	0.37	< 0.5	1	9	7	0.56	< 10	110	0.05	< 10	0.06
L22400E 19200M	201	202	< 5	30.00	< 0.2	0.67	42	290	< 0.5	< 2	0.08	< 0.5	12	25	22	3.24	< 10	10	0.14	30	0.11
L22400E 19225M	201	202	< 5	30.00	0.2	1.56	12	470	0.5	< 2	0.40	< 0.5	10	55	24	3.02	< 10	70	0.09	30	0.55
L22400E 19250M	201	202	< 5	30.00	< 0.2	0.98	22	330	0.5	< 2	0.20	< 0.5	15	52	29	3.48	< 10	30	0.13	30	0.34
L22400E 19275M	201	202	< 5	30.00	0.2	1.06	8	450	< 0.5	< 2	0.29	< 0.5	6	27	16	2.24	< 10	60	0.07	10	0.38
L22400E 19300M	201	202	10	30.00	< 0.2	1.45	16	400	0.5	< 2	0.23	< 0.5	7	33	17	2.90	< 10	60	0.08	20	0.44
L22400E 19325M	201	202	5	30.00	< 0.2	1.31	14	780	< 0.5	< 2	0.22	< 0.5	11	30	19	2.74	< 10	40	0.09	20	0.36

CERTIFICATION:

Hart Buehler



Chemex Labs Ltd.

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VICEROY INTERNATIONAL EXPLORATION

BAG 5040
 DAWSON CITY, YT
 Y0B 1G0

Page 6-B
 Total P 6
 Certificate No: 25-AUG-97
 Invoice No. 19738002
 P.O. Number
 Account : OON

Project:
 Comments: ATTN: RICK DIMENT CC: L. JAMRICH

CERTIFICATE OF ANALYSIS A9738002

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
L22400E 18675N	201	202	215	< 1	< 0.01	19	520	6	2	3	22	0.06	< 10	< 10	41	< 10	62
L22400E 18700N	201	202	195	< 1	< 0.01	18	510	8	< 2	3	22	0.06	< 10	< 10	41	< 10	60
L22400E 18725N	201	202	275	< 1	< 0.01	19	530	8	< 2	3	25	0.07	< 10	< 10	45	< 10	70
L22400E 18750N	201	202	310	< 1	< 0.01	24	680	10	2	4	31	0.06	< 10	< 10	46	< 10	82
L22400E 18775N	201	202	215	< 1	< 0.01	29	740	6	28	4	36	0.04	< 10	< 10	50	< 10	142
L22400E 18800N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
L22400E 18825N	201	202	495	1	< 0.01	35	850	10	46	4	71	0.04	< 10	< 10	59	< 10	190
L22400E 18850N	201	202	145	1	< 0.01	38	540	16	< 2	5	64	< 0.01	< 10	< 10	35	< 10	84
L22400E 18875N	201	202	180	3	< 0.01	48	520	12	< 2	5	109	< 0.01	< 10	< 10	33	< 10	160
L22400E 18900N	201	202	150	1	< 0.01	30	750	18	< 2	1	62	< 0.01	< 10	< 10	34	< 10	122
L22400E 18925N	201	202	275	10	< 0.01	119	480	16	6	6	49	< 0.01	< 10	< 10	153	< 10	582
L22400E 18950N	201	202	205	4	< 0.01	65	470	28	8	5	105	< 0.01	< 10	< 10	57	< 10	484
L22400E 18975N	201	202	260	1	< 0.01	29	460	14	2	3	53	0.03	< 10	< 10	39	< 10	150
L22400E 19000N	201	202	220	< 1	< 0.01	12	340	14	< 2	3	21	0.05	< 10	< 10	59	< 10	50
L22400E 19025N	201	202	95	1	< 0.01	7	270	10	2	2	23	0.03	< 10	< 10	45	< 10	36
L22400E 19050N	201	202	760	1	< 0.01	15	420	38	< 2	4	96	0.01	< 10	< 10	36	< 10	80
L22400E 19075N	201	202	265	1	< 0.01	19	560	56	< 2	4	28	0.03	< 10	< 10	48	< 10	138
L22400E 19100N	201	202	170	< 1	< 0.01	12	230	10	< 2	3	19	0.06	< 10	< 10	51	< 10	40
L22400E 19125N	201	202	145	< 1	< 0.01	15	330	8	< 2	3	18	0.06	< 10	< 10	48	< 10	46
L22400E 19150N	201	202	215	< 1	< 0.01	13	210	16	< 2	4	17	0.10	< 10	< 10	85	< 10	58
L22400E 19175N	201	202	265	< 1	0.01	5	960	2	< 2	1	26	0.02	< 10	< 10	11	< 10	22
L22400E 19200N	201	202	190	3	< 0.01	40	580	20	2	3	39	< 0.01	< 10	< 10	41	< 10	164
L22400E 19225N	201	202	415	1	< 0.01	25	880	18	< 2	9	48	0.06	< 10	< 10	61	< 10	100
L22400E 19250N	201	202	1005	3	< 0.01	30	1030	30	4	6	39	0.05	< 10	< 10	63	< 10	120
L22400E 19275N	201	202	250	1	< 0.01	18	890	12	< 2	4	41	0.04	< 10	< 10	40	< 10	62
L22400E 19300N	201	202	170	1	< 0.01	20	700	16	< 2	4	41	0.04	< 10	< 10	53	< 10	84
L22400E 19325N	201	202	490	2	< 0.01	21	760	16	< 2	3	75	0.03	< 10	< 10	62	< 10	90

CERTIFICATION: *Paul D. ...*



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VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: BREWERY CREEK
Comments: ATTN: RICK DIMENT

Page 1-A
Total 2
Certificate No. 10-OCT-97
Invoice No. 19742955
P.O. Number
Account LDS

CERTIFICATE OF ANALYSIS A9742955

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
21600E 16000N	201 202	< 5	0.6	1.58	6	140	0.5	< 2	0.24	< 0.5	5	26	23	1.57	< 10	30	0.02	10	0.46	80
21600E 16025N	201 202	< 5	0.2	1.24	8	150	< 0.5	< 2	0.35	< 0.5	6	20	11	1.71	< 10	30	0.04	10	0.37	455
21600E 16050N	201 202	< 5	0.2	2.09	6	150	< 0.5	< 2	0.25	< 0.5	13	35	9	2.26	< 10	20	0.03	10	0.56	380
21600E 16075N	201 202	< 5	0.2	2.01	6	110	< 0.5	< 2	0.16	< 0.5	8	29	8	2.42	< 10	70	0.02	10	0.52	180
21600E 16100N	201 202	< 5	0.2	2.03	2	120	< 0.5	< 2	0.14	< 0.5	7	30	9	2.55	< 10	10	0.03	10	0.52	160
21600E 16125N	201 202	< 5	< 0.2	1.86	8	200	< 0.5	< 2	0.13	0.5	5	27	14	2.28	< 10	20	0.03	10	0.45	115
21600E 16150N	201 202	< 5	< 0.2	1.97	30	290	< 0.5	< 2	0.20	< 0.5	6	33	23	2.35	< 10	20	0.02	10	0.61	125
21600E 16175N	201 202	< 5	< 0.2	1.72	18	200	< 0.5	< 2	0.18	< 0.5	6	23	14	2.12	< 10	60	0.03	10	0.44	160
21600E 16200N	201 202	< 5	< 0.2	1.87	18	240	0.5	< 2	0.27	< 0.5	9	33	31	2.73	< 10	40	0.05	20	0.60	290
21600E 16225N	201 202	< 5	< 0.2	0.95	4	70	< 0.5	< 2	0.07	0.5	2	18	12	1.85	< 10	60	0.02	10	0.19	65
21600E 16250N	-- --	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd
21600E 16275N	201 202	< 5	0.2	0.63	2	130	< 0.5	< 2	0.11	3.0	3	13	24	1.02	< 10	120	0.04	< 10	0.08	30
21600E 16300N	-- --	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd	NotRecd
21600E 16325N	201 202	< 5	0.6	2.39	26	300	1.5	< 2	0.34	< 0.5	7	46	38	2.67	< 10	60	0.05	30	0.90	155
21600E 16350N	201 202	10	0.2	2.50	8	330	1.0	< 2	0.45	< 0.5	9	41	35	2.45	< 10	50	0.06	30	1.05	240
21600E 16375N	201 202	< 5	0.2	1.49	2	380	0.5	< 2	0.61	< 0.5	2	32	19	1.24	< 10	70	0.05	10	0.60	90
21600E 16400N	201 202	< 5	0.4	1.66	6	600	< 0.5	< 2	0.38	< 0.5	4	31	18	1.57	< 10	50	0.04	10	0.76	80
21600E 16425N	201 202	15	1.4	1.69	12	400	1.0	< 2	0.92	5.0	5	52	89	1.79	< 10	90	0.05	10	0.66	145
21600E 16450N	201 202	< 5	< 0.2	1.15	10	180	< 0.5	< 2	0.23	0.5	4	29	19	1.84	< 10	30	0.04	10	0.35	130
21600E 16475N	201 202	20	1.6	1.89	66	620	1.5	< 2	1.31	1.5	6	52	95	2.41	< 10	110	0.05	30	0.92	210
21600E 16500N	201 202	15	0.6	1.91	2	340	0.5	< 2	0.78	0.5	3	26	23	1.37	< 10	80	0.08	10	0.57	65
21600E 16525N	201 202	< 5	0.2	1.45	6	310	0.5	< 2	0.45	< 0.5	3	25	26	1.43	< 10	110	0.10	10	0.39	80
21600E 16550N	201 202	< 5	0.8	2.06	8	220	0.5	< 2	0.46	< 0.5	35	29	26	2.06	< 10	180	0.05	10	0.43	1160
21600E 16575N	201 202	< 5	0.2	0.36	2	170	1.5	< 2	0.75	1.0	1	4	16	0.68	< 10	150	0.01	70	0.10	45
21600E 16600N	201 202	< 5	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
21600E 16625N	201 202	15	0.2	1.68	198	320	1.0	< 2	0.84	< 0.5	9	52	33	3.59	< 10	20	0.13	30	0.73	235
21600E 16650N	201 202	15	0.6	2.59	60	1050	1.5	< 2	0.73	0.5	12	67	40	3.24	< 10	60	0.15	50	1.14	180
21600E 16675N	201 202	50	0.4	1.66	56	160	3.0	< 2	1.67	0.5	9	30	40	2.48	< 10	100	0.07	70	0.75	240
21600E 16700N	201 202	60	0.6	1.09	48	160	3.5	< 2	3.09	2.0	6	16	96	1.15	< 10	140	0.03	90	0.40	295
21600E 16725N	201 202	10	< 0.2	2.58	62	360	2.5	< 2	0.42	0.5	19	48	38	4.24	< 10	60	0.29	110	0.93	610
21600E 16750N	201 202	25	0.2	2.00	30	380	2.5	< 2	0.59	1.5	17	42	36	3.15	< 10	40	0.16	80	0.87	970
21600E 16775N	201 202	10	0.2	2.15	62	220	1.0	< 2	0.36	< 0.5	13	38	21	3.85	< 10	10	0.23	10	0.79	315
21600E 16800N	201 202	10	0.2	1.81	42	380	2.0	< 2	0.48	1.0	24	35	38	4.27	< 10	20	0.41	60	0.76	1130
21600E 16825N	201 202	330	< 0.2	1.95	208	240	2.5	< 2	0.99	< 0.5	16	42	49	4.62	< 10	30	0.59	90	1.44	635
21600E 16850N	201 202	< 5	< 0.2	1.91	102	190	2.0	< 2	0.55	< 0.5	15	41	32	5.07	< 10	< 10	0.41	50	0.83	430
21600E 16875N	201 202	< 5	0.2	1.78	44	300	2.0	< 2	0.55	< 0.5	17	35	34	4.22	< 10	80	0.48	60	1.00	1230
21600E 16900N	201 202	10	0.4	1.37	26	790	1.5	< 2	0.75	2.5	30	29	28	4.37	< 10	30	0.30	30	0.60	4860
21600E 16925N	201 202	55	0.4	1.65	62	290	1.5	< 2	0.60	< 0.5	11	36	40	3.72	< 10	30	0.37	50	0.92	430
21600E 16950N	201 202	5	0.2	1.80	44	180	1.5	< 2	0.22	2.0	15	33	14	3.57	< 10	10	0.13	20	0.58	460
21600E 16975N	201 202	35	0.2	1.88	34	360	2.5	< 2	0.94	2.5	13	39	50	3.75	< 10	40	0.14	60	1.12	740

CERTIFICATION: _____



Chemex Labs Ltd.

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VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: BREWERY CREEK
Comments: ATTN: RICK DIMENT

Page 1-5
Total 2
Certificate Date 10-OCT-97
Invoice No. 19742955
P.O. Number
Account LDS

CERTIFICATE OF ANALYSIS A9742955

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
21600E 16000N	201 202	< 1	< 0.01	16	270	10	2	2	24	0.07	< 10	< 10	45	< 10	38
21600E 16025N	201 202	< 1	< 0.01	14	320	8	< 2	1	33	0.08	< 10	< 10	51	< 10	50
21600E 16050N	201 202	< 1	< 0.01	19	180	10	< 2	3	24	0.11	< 10	< 10	65	< 10	76
21600E 16075N	201 202	1	< 0.01	15	230	8	< 2	1	17	0.12	< 10	< 10	74	< 10	110
21600E 16100N	201 202	2	< 0.01	17	160	10	< 2	2	15	0.09	< 10	< 10	73	< 10	98
21600E 16125N	201 202	< 1	< 0.01	17	330	10	< 2	2	19	0.06	< 10	< 10	64	< 10	50
21600E 16150N	201 202	< 1	< 0.01	31	190	8	2	3	46	0.07	< 10	< 10	144	< 10	154
21600E 16175N	201 202	< 1	< 0.01	21	420	8	2	2	27	0.05	< 10	< 10	64	< 10	72
21600E 16200N	201 202	1	< 0.01	32	530	8	2	4	32	0.06	< 10	< 10	86	< 10	130
21600E 16225N	201 202	1	0.01	10	310	10	< 2	1	14	0.06	< 10	< 10	62	< 10	30
21600E 16250N	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21600E 16275N	201 202	< 1	0.02	14	530	6	< 2	< 1	16	0.01	< 10	< 10	21	< 10	26
21600E 16300N	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
21600E 16325N	201 202	3	< 0.01	32	470	14	< 2	4	68	0.10	< 10	< 10	69	< 10	100
21600E 16350N	201 202	1	< 0.01	31	570	10	< 2	4	77	0.11	< 10	< 10	55	< 10	86
21600E 16375N	201 202	< 1	< 0.01	17	600	6	4	3	72	0.07	< 10	< 10	28	< 10	44
21600E 16400N	201 202	1	< 0.01	23	620	8	< 2	3	117	0.08	< 10	< 10	60	< 10	110
21600E 16425N	201 202	2	0.01	85	1830	12	2	3	108	0.04	< 10	< 10	165	< 10	616
21600E 16450N	201 202	1	0.01	23	560	8	< 2	< 1	33	0.01	< 10	< 10	66	< 10	102
21600E 16475N	201 202	1	< 0.01	87	1730	22	14	4	199	0.06	< 10	< 10	138	< 10	358
21600E 16500N	201 202	4	0.01	21	520	6	< 2	3	144	0.05	< 10	< 10	36	< 10	84
21600E 16525N	201 202	4	0.01	13	580	8	2	1	93	0.05	< 10	< 10	41	< 10	42
21600E 16550N	201 202	3	0.01	21	760	20	< 2	1	79	0.05	< 10	< 10	49	< 10	64
21600E 16575N	201 202	3	0.01	9	950	4	< 2	1	60	0.01	< 10	< 10	5	< 10	34
21600E 16600N	201 202	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
21600E 16625N	201 202	2	< 0.01	30	660	24	8	5	118	0.16	< 10	< 10	92	< 10	92
21600E 16650N	201 202	< 1	< 0.01	45	1340	22	6	6	86	0.17	< 10	< 10	96	< 10	140
21600E 16675N	201 202	1	< 0.01	34	520	18	8	4	174	0.14	< 10	< 10	66	< 10	82
21600E 16700N	201 202	2	0.01	56	670	8	8	4	158	0.03	< 10	< 10	25	< 10	58
21600E 16725N	201 202	3	< 0.01	35	430	26	2	7	73	0.17	< 10	< 10	106	< 10	188
21600E 16750N	201 202	1	< 0.01	39	730	14	< 2	6	120	0.12	< 10	< 10	79	< 10	160
21600E 16775N	201 202	2	< 0.01	22	420	12	< 2	4	56	0.14	< 10	< 10	94	< 10	106
21600E 16800N	201 202	1	< 0.01	17	1360	20	4	6	66	0.21	< 10	< 10	101	< 10	118
21600E 16825N	201 202	< 1	< 0.01	19	2190	28	10	11	75	0.19	< 10	< 10	126	< 10	112
21600E 16850N	201 202	1	< 0.01	17	2070	20	12	6	39	0.17	< 10	< 10	141	< 10	158
21600E 16875N	201 202	< 1	< 0.01	20	1500	20	2	8	40	0.21	< 10	< 10	106	< 10	108
21600E 16900N	201 202	< 1	< 0.01	16	2170	22	< 2	6	57	0.15	< 10	< 10	89	< 10	274
21600E 16925N	201 202	< 1	< 0.01	20	1440	22	6	9	47	0.16	< 10	< 10	96	< 10	96
21600E 16950N	201 202	< 1	< 0.01	15	710	22	2	4	18	0.11	< 10	< 10	93	< 10	202
21600E 16975N	201 202	< 1	< 0.01	27	1540	44	4	11	60	0.12	< 10	< 10	100	< 10	172

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

VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0E 1G0

Project : BREWERY CREEK
Comments: ATTN: RICK DIMENT

Pag : 2-A
Total : 2
Certificate Date: 10-OCT-97
Invoice No. : 19742955
P.O. Number :
Account : LDS

CERTIFICATE OF ANALYSIS

A9742955

SAMPLE	PREP CODE		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	
	FA	AA	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm	
21600E 17000N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

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

VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: BREWERY CREEK
Comments: ATTN: RICK DIMENT

Page: 2-B
Total: 2
Certificate Date: 10-OCT-97
Invoice No.: 19742955
P.O. Number:
Account: LDS

CERTIFICATE OF ANALYSIS

A9742955

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
21600E 17000N	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION: _____

V. 3

093 820

3/3

BREWERY CREEK PROJECT
1997 GEOLOGICAL, GEOCHEMICAL,
TRENCHING AND DRILLING REPORT
ON THE BDM, EEL, FLEE, ELE AND LEE CLAIMS
VOLUME III - TRENCH AND DRILL LOGS

Dawson Mining District
N.T.S. 115 O/16 and 116 B/1

Latitude: 64°02'N
Longitude: 138°15'W

Owner: VLB Resource Corporation
Date of work: March to November 1997



Author: Rick Diment, P.Geo.
February 10, 1998

GEOCHEM

HOLE NO: RC97-1672	SECTION: 17075	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC-CENTRE SAMPLING	0.00	40.00	5.25IN
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	17/3/97		
Date finished:	18/3/97		
Logged by:	M. LOWE		
Relogged by:	A. LAUDRUM		
Sampled by:	DYLAN		

*** COLLAR COORDINATES AND RL ***

SURVEYED	21346.50mN	17074.70mE	786.80RL
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Pre-collar depth: 40 Final depth: 40.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: STICKY CLAY 0-7M: POOR RECOVERY 12-14M

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	40.00	40.00

*** SUMMARY LOG ***

0.00	4.40	COLLUVIUM
4.40	16.50	ARGILLITE
16.50	32.00	GRAPHITIC ARGILLITE
32.00	40.00	CHERT
40.00		END OF HOLE

Checked and signed:	Date: <u>MAY 14/97</u>
---------------------	------------------------

From	To	Geological Log
0.00	4.40	Colluvium Overburden
4.40	16.50	Argillite S1, C0, 1% Lm Dark grey/brown and black argillite; moderate developed white bull quartz stockwork, up to 5% of rock, locally up to 10% at 10-11 metres and 16-16.5 metres. No carbonate reaction. 1-3% limonite 4.4-10m pervasive within brown clay clots and clay coating fractures only; limonite does not stain argillite. Rock is locally cherty 1-3 metres. Spotty strong clay alteration decreases downhole. No sulphides.
16.50	32.00	Graphitic Argillite S1, C2, tr Lm, tr py, tr aspy, P3 Black carbonaceous argillite; rare quartz vlt uphole, locally intensely silicified as quartz sulphides flooding into matrix and along fractures. Trace limonite 16.5-18 metres on fracture surfaces. Trace - 1% py, P3, trace aspy occurs with silica flooding in matrix and py occasionally framboidal on fractures. All sulphides are very very fine grained and strongly oxidized to dark oxides and limonite. Rock is very strongly calcareous giving an immediate hissing, rarely bubbling reaction to HCl. Rock is hard, commonly cannot be scratched with a knife due to silification and occasional cherty interbeds.
32.00	40.00	Chert S1, C2-C3 Black carbonaceous chert; more silicious than 16.5-32 metres and no sulphides present. Intensely calcareous giving a strong immediate hissing, frequently bubbling reaction to HCl. Locally argillite as 16.5-32 metres without sulphides.

*** END OF HOLE *** 40.00

RC Drillhole RC97-1672
Sample Log

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1672	0	2	0.13		P3		DRY
RC97-1672	2	4	0.15		P3		DRY
RC97-1672	4	6	0.01		P3	1	DRY
RC97-1672	6	8	0.07		P3	1	DRY
RC97-1672	8	10	0.07		P3	1	DRY
RC97-1672	10	12	0.07		P3	1	DRY
RC97-1672	12	14	0.03		P3	1	DRY
RC97-1672	14	16	0.06		P3	1	DRY
RC97-1672	16	18	0.05		P3	1	DRY
RC97-1672	18	20	0.02		P3	1	DRY
RC97-1672	20	22	0.04		P3	1	DRY
RC97-1672	22	24	0.03		P3	1	DRY
RC97-1672	24	26	0.03		P3	1	DRY
RC97-1672	26	28	0.03		P3	1	DRY
RC97-1672	28	30	0.05		P3	1	DRY
RC97-1672	30	32	0.05		P3	tr	DRY
RC97-1672	32	34	0.03		P3	tr	DRY
RC97-1672	34	36	0.02				DRY
RC97-1672	36	38	0.04				DRY
RC97-1672	38	40	0.04				DRY

HOLE NO: RC97-1673 SECTION: 17075 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC-CENTRE SAMPLING	0.00 46.00 5.25IN
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAM
Date started:	27/3/97
Date finished:	27/3/97
Logged by:	R. M. LOWE
Relogged by:	
Sampled by:	DYLAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 21315.70mN 17075.20mE 786.10RL

Pre-collar depth: 45 Final depth: 46.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: 7M CASING

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: N/A

*** SURVEY DATA ***

Survey Method: NONE

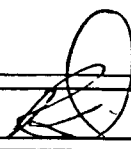
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	46.00	46.00

*** SUMMARY LOG ***

0.00	1.50	COLLUVIUM
1.50	14.00	LIMONITIC ALTERED QUARTZ MONZONITE
14.00	46.00	GRAPHITIC ARGILLITE
46.00		END OF HOLE

Checked and signed:  Date: MAY 19/97

From	To	Geological Log
0.00	1.50	Colluvium Overburden
1.50	14.00	Limonitic Altered Quartz Monzonite S1, C0, 2%py, P4, tr sb, tr aspy, 6% Lm Light to medium yellow-brown Limonitic Altered Quartz Monzonite. Rock is intensely argillically altered with intrusive textures obliterated except 3% fresh to weak marginally altered black biotite 10-11m. Weak silicification marginal to a weak quartz stockwork 3-9m. otherwise no silicification. No reaction to HCl. 6% limonite stains whole rock pervasively yellow-brown, but only lightly 8-9m where strongly silicified. 2% fine grained Py disseminated evenly throughout unit is completely oxidised to MnO ₂ , limonite and hematite. Trace fine grained stibnite and AsPy rarely seen 4-14m.
14.00	46.00	Graphitic Argillite S1, C1-C3, 2%py, P3-P2, 1%sb, tr aspy, tr Lm Dark yellow-brown-black to black carbonaceous, weakly graphitic Argillite. Weakly developed quartz-stockwork with up to 3% white quartz veinlets 14-18m, 24-26m and 44-46m with weak to moderate quartz-sulphides flooding of whole rock. Up to 2% very fine-grained Py disseminated throughout unit concentrated up to 4% 14-18m, 24-28m and 37-40m. V fine grained py is strongly oxidized 14-26m, P3 and strongly oxidised with fresh cores 26-43.5m, P2. Trace AsPy and up to 3%Sb very fine-grained disseminated 32-46m. Trace fracture controlled limonite 14-20m. Trace weak limonite stain 14-38m. Variable reaction to HCl: C1 14-22m weakly hissing, C2 32-40m strong positive crackling, and C3 22-32m and 40-46m very strong effervescencing. Clay clot fault gouge at 40-42m.

*** END OF HOLE *** 46.00

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1673	0	2	0.03		P4		DRY
RC97-1673	2	4	0.02		P4		DRY
RC97-1673	4	6	0.06		P4		DRY
RC97-1673	6	8	0.01		P4		DRY
RC97-1673	8	10	0.01		P4		DRY
RC97-1673	10	12	0.01		P4		DRY
RC97-1673	12	14	0.01		P4		DRY
RC97-1673	14	16	0.01		P4		DRY
RC97-1673	16	18	0.03		P3	2	DRY
RC97-1673	18	20	0.01		P3	2	DRY
RC97-1673	20	22	0.01		P3	2	DRY
RC97-1673	22	24	0.04		P3	2	DRY
RC97-1673	24	26	0.01		P2	2	DRY
RC97-1673	26	28	0.03		P2	2	DRY
RC97-1673	28	30	0.03		P2	2	DRY
RC97-1673	30	32	0.09		P2	2	DRY
RC97-1673	32	34	0.01		P2	2	DRY
RC97-1673	34	36	0.01		P2	2	DRY
RC97-1673	36	38	0.01		P2	2	DRY
RC97-1673	38	40	0.05		P2	2	DRY
RC97-1673	40	42	0.14		P2	2	DRY

HOLE NO: RC97-1674

SECTION: 17075

GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 50.00 5.25IN
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	18/3/97
Date finished:	18/3/97
Logged by:	R. M. LOWE
Relogged by:	
Sampled by:	DYLAN

*** COLLAR COORDINATES AND RL ***

SURVEYED	21285.80mN	17075.00mE	785.00RL
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Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments:

Material left in hole: NONE
 Base of complete oxidation: 42M
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: N/A

*** SURVEY DATA ***

Survey Method: NONE

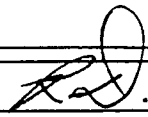
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	50.00	50.00

*** SUMMARY LOG ***

0.00	0.70	COLLUVIUM
0.70	5.40	LIMONITIC ALTERED QUARTZ MONZONITE
5.40	6.00	ARGILLITE
6.00	13.70	LIMONITIC ALTERED QUARTZ MONZONITE
13.70	20.30	GRAPHITIC ARGILLITE
20.30	25.00	LIMONITIC ALTERED QUARTZ MONZONITE
25.00	38.30	QUARTZ MONZONITE
38.30	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: 

Date: 11/19/97

From	To	Geological Log
0.00	0.70	Colluvium Overburden
0.70	5.40	Limonic Altered Quartz Monzonite S1, C0, 6%Lm, 1%Py, P4, tr Sb 6% limonite pervasively stains orange-buff colour. Strong to intense argillic alteration and moderately sericitic alteration obliterate texture. 1% fine grained Py and trace stibnite finely disseminated in matrix with weak silica flooding. Py is intensely oxidized to MnO2 and hematite: no competent cores seen. No carbonate reaction to HCl in unwashed sample.
5.40	6.00	Argillite S3, C0, tr Lm, tr Py, P4, 2%Sb Dark grey to black non-graphitic argillite with strong to intense silicification marginal to a moderately well developed quartz stockwork. Up to 2% Sb flooding into matrix and rarely in Sb-stringers. Trace pyrite finely disseminated in matrix is completely oxidized to limonite. Strong argillic alteration forming patchy clay clots.
6.00	13.70	Limonic Altered Quartz Monzonite S1, C1, P4, Intense argillic and sericitic alteration with 4% pervasively limonite staining obliterates textures: rock is an orange-buff colour. Trace disseminated and framboidal pyrite is completely oxidized to hematite and limonite. Trace stibnite finely disseminated in matrix and fine grained blebs within weak rare quartz stringers. Variable carbonate reaction to HCl: 6-10m no reaction-C0, 10-12m strong positive crackling-C2 and 12-13.7m weak hissing-C1.
13.70	20.30	Graphitic Argillite S0, C1-C3, tr Lm, tr Py, P4, tr Sb Black Graphitic Argillite is unsilicified but hosts trace pyrite and trace stibnite finely disseminated in matrix. Pyrite is completely decayed, disintegrated and oxidized to limonite with trace fracture controlled limonite. Strong argillic alteration with common grey clay clots and skins on fractures. Variable reaction to HCl: 13.7-18m weakly hissing-C1 and 18-20.3m immediate vigorous effervescencing -C3.
20.30	25.00	Limonic Altered Quartz Monzonite S1, C2, 2%Lm, tr Py, P4-P2, tr As, tr Sb Intense argillic and sericitic alteration with 2% pervasively limonite staining obliterates textures: rock is an orange-buff colour. Trace disseminated pyrite is completely oxidized to hematite and limonite from 20.3-24m-P4 but competent moderately tarnished pyrite cores coated with dark oxide seen 24-25m. Trace stibnite and arsenopyrite finely disseminated in matrix and fine grained stibnite blebs within weak rare quartz stringers. Weak tarnished on arsenopyrite. Uniform reaction to HCl: strong positive crackling-C2 starts after 2 seconds and continues for 25 seconds.
25.00	38.30	Quartz Monzonite S1-S3, C2, tr Lm, tr Py, P2, tr As, tr Sb Weak patchy argillic and sericitic alteration with tr fracture controlled and pervasively limonite staining weakly overprints porphyritic texture: rock is an buff-grey colour. Common euhedral feldspar and up to 5% biotite: 1% bleached biotite looks like muscovite, 1% sericite after biotite pseudomorphs and 3% fresh black biotite has no preferred orientation. Occasional quartz eyes evenly distributed through unit. Trace fine grained disseminated pyrite with competent moderately tarnished cores coated with dark oxide, rarely no oxide rind. Trace stibnite and arsenopyrite finely disseminated in matrix. Weak tarnished on arsenopyrite. Strong white-quartz stockwork 26-30m up to 30% of rock with strong marginal flooding of matrix-S3; weak silicification uphole and moderately silicified 30-38.3m with weak quartz stockwork. Uniform reaction to HCl: strong positive crackling-C2 starts after 2 seconds and continues for 25 seconds. Fault zone with clay and ground Quartz Monzonite at 35-38.3m.

From	To	Geological Log
38.30	50.00	Graphitic Argillite S0, C1-C3, tr Lm, tr Py, P4, tr Sb Black Graphitic Argillite is variably silicified dominantly S2 with up to 15% white quartz stockwork veinlets and marginal flooding of matrix but weak silicification 44-46m. Rock hosts trace arsenopyrite and trace stibnite finely disseminated in matrix. Rare banded fine grained stibnite. No pyrite seen. Uniform reaction to HCl: immediate vigorous effervescencing -C3.

*** END OF HOLE *** 50.00

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1674	0	2	0.07		P4	1	DRY
RC97-1674	2	4	0.03		P4	1	DRY
RC97-1674	4	6	0.04		P4	tr	DRY
RC97-1674	6	8	0.04		P4	tr	DRY
RC97-1674	8	10	0.04		P4	tr	DRY
RC97-1674	10	12	0.03		P4	tr	DRY
RC97-1674	12	14	0.03		P4	tr	DRY
RC97-1674	14	16	0.03		P4	tr	DRY
RC97-1674	16	18	0.04		P4	tr	DRY
RC97-1674	18	20	0.03		P4	tr	DRY
RC97-1674	20	22	0.04		P3	tr	DRY
RC97-1674	22	24	0.02		P3	tr	DRY
RC97-1674	24	26	0.03		P2	tr	DRY
RC97-1674	26	28	0.01		P2	tr	DRY
RC97-1674	28	30	0.02		P2	tr	DRY
RC97-1674	30	32	0.04		P2	tr	DRY
RC97-1674	32	34	0.02		P2	tr	DRY
RC97-1674	34	36	0.04		P2	tr	DRY
RC97-1674	36	38	0.04		P2	tr	DRY
RC97-1674	38	40	0.03		P4	tr	DRY
RC97-1674	40	42	0.04		P4	tr	DRY
RC97-1674	42	44	0.6		P4	tr	DRY
RC97-1674	44	46	0.11		P4	tr	DRY
RC97-1674	46	48	0.09		P4	tr	DRY
RC97-1674	48	50	0.08		P4	tr	DRY

HOLE NO: RC97-1675	SECTION: 17025	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CONVENTIONAL RC	0.00 12.00
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	19/3/97
Date finished:	19/3/97
Logged by:	R. M. LOWE
Relogged by:	
Sampled by:	DYLAN
CENTRE SAMPLING RC	12.00 50.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	19/3/97
Date finished:	19/3/97
Logged by:	R. M. LOWE
Relogged by:	
Sampled by:	DYLAN

*** COLLAR COORDINATES AND RL ***

SURVEYED	21290.80mN	17025.70mE	773.75RL
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Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: FRACTURED BEDROCK: 12M CASING

Material left in hole: NONE
 Base of complete oxidation 48M
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method: NONE

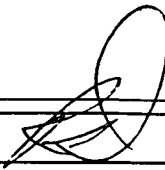
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	50.00	50.00

*** SUMMARY LOG ***

0.00	5.80	COLLUVIUM
5.80	14.00	LIMONITIC ALTERED QUARTZ MONZONITE
14.00	32.00	GRAPHITIC ARGILLITE
32.00	46.40	GRAPHITIC SHALE
46.40	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: 	Date: <u>May 14/97</u>
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From	To	Geological Log
0.00	5.80	Colluvium Colluvium
5.80	14.00	Limonitic Altered Quartz Monzonite S0-S2, C0-C2, 4%Lm, tr Py, P3-P2, tr As, tr Sb Strong to intense argillic and sericitic alteration with 4% pervasively limonite staining obscures textures: rock is an orange-brown colour. Occasional sericite after biotite pseudomorphs and euhedral POTASSIUM ALTERATION-spar xtals <3mm. No silicification 5.8-7.5m, moderate silicified 7.5-10.2m with up to 15% secondary quartz flooding in matrix and weak silicification 10.2-14m. Trace pyrite, trace arsenopyrite, and trace stibnite finely disseminated through whole unit. Pyrite is strongly oxidized P3 with competent remnant cores deeply tarnished 5.8-12m, and tarnished and lightly oxidized P2 12-14m. Variable carbonate reaction to HCl: 5.8-10m weakly hissing reaction-C1, 10-14m strong positive crackling-C2.
14.00	32.00	Graphitic Argillite 60:40 Graphitic Shale, S1-S4, C0-C1, tr Lm, tr Py, P4, tr As, tr Sb Black Graphitic Argillite interbedded with dark grey Graphitic Shale. Highly variable silicification is moderate 14-16m-S2, intense (S4)16-18m with up to 3% fine grained stibnite flooding into matrix marginal to local quartz stibnite stockwork, weak flooding 18-28m and strong quartz stockwork 28-30m. Rock hosts trace fracture controlled and fine grained disseminated pyrite, and trace stibnite and trace arsenopyrite finely disseminated in matrix. Pyrite is completely decayed, disintegrated and oxidized to limonite with trace fracture controlled limonite. Strong argillic alteration with common grey clay clots and skins on fractures. Variable reaction to HCl: 14-18m weakly hissing-C1 and 18-32m no reaction at all. Fault zone starts at 32m.
32.00	46.40	Graphitic Shale 90:10 Graphitic Argillite, S1-S2, C0, tr Lm, tr Py, P2, tr As, 2% Sb Dark brown-grey Graphitic Shale. Silicification is moderate (S2) 44-46m marginal to local quartz stockwork, otherwise weak. Rock hosts trace fracture controlled and fine grained disseminated pyrite and asx: up to 2% stibnite finely disseminated in matrix and banded, occasionally seen in stibnite stringers. Pyrite is oxidized but fresh to tarnished cores are vaguely discernable as pyrite is microscopic. Ubiquitous trace fracture controlled limonite. Strong argillic alteration with common grey clay clots and skins on fractures. No carbonate reaction at all. Fault zone (clay gouge) at 32m to 38m with washed sample largely missing 32-34m and 36-38m.
46.40	50.00	Graphitic Argillite 80:20 Graphitic Shale, S1, C0, tr Lm, tr Py, P2-P1, tr As, 2% Sb Black Graphitic Argillite interbedded with dark grey Graphitic Shale. Uniform weak quartz flooding. Rock hosts trace fracture controlled and fine grained disseminated pyrite. Pyrite is weakly tarnished (P1) below 48m. 2% stibnite and trace arsenopyrite finely disseminated in matrix. Rare fine stibnite stringers. Trace fracture controlled limonite. Strong argillic alteration with common grey-brown clay skins on fractures. No reaction to HCl at all.

*** END OF HOLE *** 50.00

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1675	0	2	0.1				DRY
RC97-1675	2	4	0.11				DRY
RC97-1675	4	6	0.07		P3	tr	DRY
RC97-1675	6	8	0.42		P3	tr	WET
RC97-1675	8	10	0.13		P3	tr	WET
RC97-1675	10	12	0.08		P2	tr	DRY
RC97-1675	12	14	0.03		P2	tr	DRY
RC97-1675	14	16	0.03		P4	tr	DRY
RC97-1675	16	18	0.06		P4	tr	DRY
RC97-1675	18	20	0.09		P4	tr	DRY
RC97-1675	20	22	0.15		P4	tr	DRY
RC97-1675	22	24	0.11		P4	tr	DRY
RC97-1675	24	26	0.1		P4	tr	DRY
RC97-1675	26	28	0.02		P4	tr	DRY
RC97-1675	28	30	0.05		P4	tr	DRY
RC97-1675	30	32	0.01		P4	tr	DRY
RC97-1675	32	34	0.01		P2	tr	DRY
RC97-1675	34	36	0.04		P2	tr	DRY
RC97-1675	36	38	0.06		P2	tr	DRY
RC97-1675	38	40	0.01		P2	tr	DRY
RC97-1675	40	42	0.13		P2	tr	DRY
RC97-1675	42	44	0.08		P2	tr	DRY
RC97-1675	44	46	0.06		P2	tr	DRY
RC97-1675	46	48	0.03		P2	tr	DRY
RC97-1675	48	50	0.07		P1	tr	DRY

HOLE NO: RC97-1676 SECTION: 17000 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC-CENTRE SAMPLING	0.00	50.00	5.25IN
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	19/3/97		
Date finished:	19/3/97		
Logged by:	R. M. LOWE		
Relogged by:			
Sampled by:	DYLAN		

*** COLLAR COORDINATES AND RL ***
 SURVEYED 21340.20mN 16999.50mE 770.50RL

Drill collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method: NONE

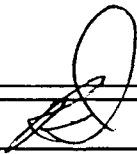
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	46.00	46.00
48.00	50.00	2.00

*** SUMMARY LOG ***

0.00	6.80	SILTSTONE (STEEL FORMATION)
6.80	39.60	GRAPHITIC SHALE
39.60	46.50	GRAPHITIC ARGILLITE
46.50	50.00	GRAPHITIC SHALE
50.00		END OF HOLE

Checked and signed:  Date: 19/3/97

From	To	Geological Log
0.00	6.80	<p>Siltstone (Steel Formation) S1, C1, tr Lm, 2% Py, P3, tr As, 1% Sb Medium brown-grey tan weathering Siltstone (Steel Formation) with weak silicification hosting up to 2% very fine grained pyrite, trace arsenopyrite and 1% stibnite. Pyrite is strongly oxidized but tarnished cores are vaguely discernable even though pyrite is microscopic. Ubiquitous trace fracture controlled limonite. Strong patchy argillic alteration with common grey-brown clay clots and skins on fractures. Weak carbonate reaction starts after 10 seconds and continues for only 20 seconds.</p>
6.80	39.60	<p>Graphitic Shale S1-S2, C0, tr Lm, tr Py, P3-P2, tr As, 6% Sb Dark grey Graphitic Shale. Silicification is moderate (S2) 24-32m, marginal to quartz stibnite stockwork, with up to 20% white quartz, otherwise weak. Rock hosts trace fine grained disseminated pyrite and arsenopyrite and up to 6% stibnite finely disseminated in matrix, banded, occasionally seen in stibnite stringers, and concentrated 24-32m up to 25% stibnite and 1% arsenopyrite with stockwork. Pyrite is oxidized and coated with limonite, with occasional competent tarnished cores (P2) below 38m: trace fracture controlled limonite decreases downhole. Weak to moderate argillic alteration with patchy brown-grey clay skins on fractures. No carbonate reaction at all.</p>
39.60	46.50	<p>Graphitic Argillite S3, C0, tr Lm, tr Py, P2, tr As, 8% Sb Black strongly silicification Graphitic Argillite hosts up to 8% stibnite and trace pyrite and arsenopyrite with up to 20% white quartz in a strongly developed stockwork. Pyrite is oxidized with fresh to tarnished cores vaguely discernable. Weak trace fracture controlled limonite. Moderate argillic alteration with occasional grey clay skins on fractures. No carbonate reaction. Strongly graphitic, greasy feeling and lustre.</p>
46.50	50.00	<p>Graphitic Shale S1-S2, C0, tr Lm, 3% Sb Dark grey Graphitic Shale. Silicification is moderate (S2) 48-50m marginal to local quartz stockwork with up to 15% white quartz, otherwise weak(S1). Rock hosts 3% stibnite finely disseminated in matrix and occasional stibnite stringers concentrated with stockwork. No pyrite seen but trace fracture controlled limonite through whole unit. Moderately graphitic with grey-black streak and weak greasy feel. No carbonate reaction to HCl.</p>

*** END OF HOLE *** 50.00

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1676	0	2	0.05		P3	2	DRY
RC97-1676	2	4	0.02		P3	2	DRY
RC97-1676	4	6	0.02		P3	2	DRY
RC97-1676	6	8	0.02		P3	tr	DRY
RC97-1676	8	10	0.13		P3	tr	DRY
RC97-1676	10	12	0.04		P3	tr	DRY
RC97-1676	12	14	0.01		P3	tr	DRY
RC97-1676	14	16	0.01		P3	tr	DRY
RC97-1676	16	18	0.01		P3	tr	DRY
RC97-1676	18	20	0.01		P3	tr	DRY
RC97-1676	20	22	0.02		P3	tr	DRY
RC97-1676	22	24	0.03		P3	tr	DRY
RC97-1676	24	26	0.01		P3	tr	DRY
RC97-1676	26	28	0.02		P3	tr	DRY
RC97-1676	28	30	0.05		P3	tr	DRY
RC97-1676	30	32	0.01		P3	tr	DRY
RC97-1676	32	34	0.01		P3	tr	DRY
RC97-1676	34	36	0.03		P3	tr	DRY
RC97-1676	36	38	0.01		P3	tr	DRY
RC97-1676	38	40	0.01		P2	tr	DRY
RC97-1676	40	42	0.01		P2	tr	DRY
RC97-1676	42	44	0.01		P2	tr	DRY
RC97-1676	44	46	0.01		P2	tr	DRY
RC97-1676	46	48	0.04				DRY
RC97-1676	48	50	0.01				DRY

HOLE NO: RC97-1677

SECTION: 16975

GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 50.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	19/3/97
Date finished:	20/3/97
Logged by:	A. LAUDRUM
Relogged by:	
Sampled by:	DAN

*** COLLAR COORDINATES AND RL ***

SURVEYED	21580.40mN	16974.90mE	786.75RL
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Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: BROKEN UP GROUND 27-30M

Material left in hole: NONE
 Base of complete oxidation: 0
 Top of fresh rock: 36
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method: NONE

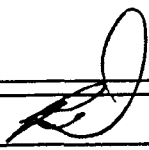
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	50.00	50.00

*** SUMMARY LOG ***

0.00 24.00 ARGILLITE
 24.00 32.00 GRAPHITIC ARGILLITE
 32.00 42.00 ARGILLITE
 42.00 44.00 GRAPHITIC ARGILLITE
 44.00 50.00 ARGILLITE
 50.00 END OF HOLE

Checked and signed: 

Date: 20/4/97

From	To	Geological Log
0.00	24.00	<p>Argillite C0 - C1, S1, P1 - P2, tr py, tr Lm</p> <p>Black argillite, with a brown red streak. Trace py occurs as P1 euhedral disseminated crystals and as very fine-grained P2 masses associated with fine quartz veins. Trace limonite occurs along fractures surfaces. Unit is non calcareous to 18 metres. From 18 to 24 metres the unit is weakly calcareous and slightly more graphitic. A non calcareous graphitic section occurs from 12 to 16 metres.</p>
24.00	32.00	<p>Graphitic Argillite C3, S1, P2, tr py, tr Lm</p> <p>Black graphitic argillite with Tr quartz carbonate veinlets and a greasy lustre. Trace py moderately oxidized occurs along edges of veinlets. The unit is generally without sulphides. Unit reacts strongly to HCl by fizzing and producing a steam from some of the chips.</p>
32.00	42.00	<p>Argillite C2, S1, P1, tr py, tr Lm</p> <p>Black argillite, weakly graphitic. Trace py occurs as P1 euhedral disseminated crystals and as very fine-grained masses associated with fine quartz carbonate veinlets. Trace limonite occurs along fractures surfaces. The unit is moderately calcareous. No addition of quartz has occurred from 34 to 38 metres, or from 40 to 42 metres.</p>
42.00	44.00	<p>Graphitic Argillite C2, S1, P2, tr py, tr sb, tr Lm</p> <p>Black graphitic argillite that has trace limonite along fractures surfaces. Trace py and sb occur along narrow quartz carbonate veinlets. The py is coated with manganese and iron oxides.</p>
44.00	50.00	<p>Argillite C2, S1, P2, tr py, tr Lm</p> <p>Black argillite, with a brown red streak. Trace py occurs as very fine-grained P2 masses associated with fine quartz veins. The py crystals are coated with iron and manganese oxides. Trace limonite occurs along fractures surfaces. Chips of calcite crystals occur that are up to 5 mm in diameter.</p>

*** END OF HOLE *** 50.00

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1677	0	2	0.02		P2	tr	DRY
RC97-1677	2	4	0.01		P2	tr	DRY
RC97-1677	4	6	0.02		P1	0	DRY
RC97-1677	6	8	0.03		P1	0	DRY
RC97-1677	8	10	0.08		P2	tr	DRY
RC97-1677	10	12	0.06		P2	tr	DRY
RC97-1677	12	14	0.08		P2	tr	DRY
RC97-1677	14	16	0.04		P2	tr	DRY
RC97-1677	16	18	0.06		P2	tr	DRY
RC97-1677	18	20	0.08		P2	tr	DRY
RC97-1677	20	22	0.07		P2	tr	DRY
RC97-1677	22	24	0.07		P2	tr	DRY
RC97-1677	24	26	0.06		P2	tr	DRY
RC97-1677	26	28	0.03		P2	tr	DRY
RC97-1677	28	30	0.09		P1	0	DRY
RC97-1677	30	32	0.03		P1	tr	DRY
RC97-1677	32	34	0.04		P1	tr	DRY
RC97-1677	34	36	0.01		P1	tr	DRY
RC97-1677	36	38	0.02		P1	tr	DRY
RC97-1677	38	40	0.04		P1	tr	DRY
RC97-1677	40	42	0.02		P1	tr	DRY
RC97-1677	42	44	0.02		P2	tr	DRY
RC97-1677	44	46	0.03		P2	tr	DRY
RC97-1677	46	48	0.03		P2	tr	DRY
RC97-1677	48	50	0.06		P2	tr	DRY

HOLE NO: RC97-1678 SECTION: 16925 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 45.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	20/3/97
Date finished:	20/3/97
Logged by:	A. LAUDRUM
Relogged by:	
Sampled by:	DAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 21594.40mN 16924.90mE 784.40RL

Pre-collar depth: 50 Final depth: 45.00
 Purpose of hole: EXPLORATION
 Hole status: HOLE SHORTENED
 Comments: BROKEN, SLOUGHING GROUND
 34-45M: STOPPED HOLE 5M SHORT.

Material left in hole: NONE
 Base of complete oxidation: >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method: NONE

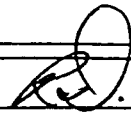
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	45.00	45.00

*** SUMMARY LOG ***

0.00	3.00	ALTERED QUARTZ MONZONITE
3.00	3.50	ARGILLITE
3.50	12.00	LIMONITIC ALTERED QUARTZ MONZONITE
12.00	45.00	GRAPHITIC ARGILLITE
45.00		END OF HOLE

Checked and signed:  Date: 17/04/97

From	To	Geological Log
0.00	3.00	Altered Quartz Monzonite C0, S2, P4, tr sb, tr Lm Pale grey altered quartz monzonite with trace stibnite veinlets. Sparce relict stains indicate the former presence of py crystals. The unit is moderately flooded with silica and has trace to 1% limonite alteration along surfaces of chips. Feldspar crystals have been argillically altered to clay minerals.
3.00	3.50	Argillite C0, S1, P4, tr sb, tr Lm Dark grey argillite with cross cutting quartz carbonate veinlets and quartz eyes. The py has been completely oxidized. Disseminated specks of limonite occur.
3.50	12.00	Limonitic Altered Quartz Monzonite C0, S1, P4, 4% Lm medium orange/brown limonite altered quartz monzonite with narrow band of argillite and quartz veins. The py has been altered to iron and manganese oxide. The limonite is pervasive, except on the quartz chips and the argillite chips where it does not appear to penetrate the surfaces. The oxides are generally only on fractures surfaces and cover less than 10% of the chips. The igneous texture is completely overprinted by atln.
12.00	45.00	Graphitic Argillite C2 - C3, S1, P3, 1%py, tr Lm Black graphitic argillite that increases in carbonate content from moderately carbonaceous to intensely carbonaceous below 24 metres to moderately to strong - the amount of calcite increases down hole and the reaction to HCl gets stronger downhole. Trace limonite alteration occurs along fractures surfaces - it is not always associated with the quartz carbonate veinlets though. Strongly oxidized py occurs along the limonite altered surfaces.

*** END OF HOLE *** 45.00

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1678	0	2	0.81		P4		DRY
RC97-1678	2	4	0.56		P4		DRY
RC97-1678	4	6	2.13		P4		DRY
RC97-1678	6	8	1.26		P4		DRY
RC97-1678	8	10	1.42		P4		DRY
RC97-1678	10	12	1.6		P4		DRY
RC97-1678	12	14	0.12		P3	tr	DRY
RC97-1678	14	16	0.05		P3	tr	DRY
RC97-1678	16	18	0.07		P2	tr	DRY
RC97-1678	18	20	0.06		P2	tr	DRY
RC97-1678	20	22	0.03		P2	tr	DRY
RC97-1678	22	24	0.03		P2	tr	DRY
RC97-1678	24	26	0.07		P2	tr	DRY
RC97-1678	26	28	0.03		P2	tr	DRY
RC97-1678	28	30	0.04		P2	tr	DRY
RC97-1678	30	32	0.04		P2	tr	DRY
RC97-1678	32	34	0.03		P2	tr	DRY
RC97-1678	34	36	0.02		P2	tr	DRY
RC97-1678	36	38	0.01		P2	tr	DRY
RC97-1678	38	40	0.02		P2	tr	DRY
RC97-1678	40	42	0.02		P2	tr	DRY
RC97-1678	42	44	0.03		P2	tr	DRY
RC97-1678	44	46	0.04		P2	tr	DRY

HOLE NO: RC97-1679

SECTION:17125

GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 60.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	20/3/97
Date finished:	20/3/97
Logged by:	A. LAUDRUM
Relogged by:	
Sampled by:	DYLAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 21305.50mN 17123.33mE 704.40RL

Pre-collar depth: 50 Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status: HOLE EXTENDED
 Comments: LAST 10M NOT REPORTED BY DRILL TECH

Material left in hole: NONE
 Base of complete oxidation: >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	60.00	60.00

*** SUMMARY LOG ***

0.00 10.00 LIMONITIC ALTERED
 QUARTZ MONZONITE
 10.00 14.00 ARGILLITE
 14.00 33.70 LIMONITIC ALTERED
 QUARTZ MONZONITE
 33.70 60.00 GRAPHITIC ARGILLITE
 60.00 END OF HOLE

Checked and signed:



Date:

MAY 17/97

From	To	Geological Log
0.00	10.00	<p>Limonitic Altered Quartz Monzonite C0, S2, P3 - P4, tr py, 3% Lm</p> <p>Light orange/brown limonite altered Limonitic Altered Quartz Monzonite. Rock is bleached - moderately argillically altered, feldspars gone to clay, and intrusive textures obscured. Quartz chips and quartz flooding of the quartz monzonite has occurred. Narrow bands of silicious argillite occur from 2 to 6 metres depth. The argillite is cross cut by quartz veinlets. Trace relict py is sparsely disseminated within the bleached quartz monzonite. Quartz veinlets and quartz eyes and weakly to moderately altered biotite is introduced at the bottom 5 metres of the interval along with an overall pinkish alteration of the quartz monzonite (potassic alteration).</p>
10.00	14.00	<p>Argillite C0, S1, P4, 1% Lm</p> <p>Black silicious argillite with limonite alteration initially only on fractures surfaces changing to pervasive limonite alteration at the bottom of the unit. Quartz veinlets cross cut the argillite. No reaction to HCl.</p>
14.00	33.70	<p>Limonitic Altered Quartz Monzonite C0, S1, P4, 5% Lm</p> <p>Medium orange/brown limonite altered quartz monzonite. Manganese and iron oxides obscure/replace biotite crystals. Oxide staining decreases downhole, silicification increases downhole. Iron and Mn oxides occur on fractures surfaces. Pyrite has been completely oxidized from 14 to 24 metres, blebs of py covered with oxide minerals from 24 to 28 metres and from 28 to 30 metres trace disseminated py is weakly oxidized. Pervasive limonite alteration continues across the whole interval</p>
33.70	60.00	<p>Graphitic Argillite C3, S0-S1, P1, tr py, tr Lm</p> <p>Black graphitic argillite, strongly calcareous with stringers of carbonate and carbonate flooding. Limonite occurs along fractures surfaces to the bottom of the hole. Trace oxidized py is associated with the limonite fractures. Unit reacts strongly with HCl - producing smoke!</p>

*** END OF HOLE *** 60.00

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1679	0	2	0.07		P4		DRY
RC97-1679	2	4	0.04		P3	tr	DRY
RC97-1679	4	6	0.02		P4		DRY
RC97-1679	6	8	0.05		P4		DRY
RC97-1679	8	10	0.03		P4		DRY
RC97-1679	10	12	0.07		P4		DRY
RC97-1679	12	14	0.02		P4		DRY
RC97-1679	14	16	0.02		P4		DRY
RC97-1679	16	18	0.02		P4		DRY
RC97-1679	18	20	0.03		P4		DRY
RC97-1679	20	22	0.01		P4		DRY
RC97-1679	22	24	0.01		P4		DRY
RC97-1679	24	26	0.01		P3	tr	DRY
RC97-1679	26	28	0.01		P3	tr	DRY
RC97-1679	28	30	0.01		P2	tr	DRY
RC97-1679	30	32	0.02		P2	tr	DRY
RC97-1679	32	34	0.05		P1	tr	DRY
RC97-1679	34	36	0.02		P1	tr	DRY
RC97-1679	36	38	0.01		P1	tr	DRY
RC97-1679	38	40	0.01		P1	tr	DRY
RC97-1679	40	42	0.03		P1	tr	DRY
RC97-1679	42	44	0.02		P1	tr	DRY
RC97-1679	44	46	0.03		P1	tr	DRY
RC97-1679	46	48	0.04		P1	tr	DRY
RC97-1679	48	50	0.02		P1	tr	DRY
RC97-1679	50	52	0.05		P1	tr	DRY
RC97-1679	52	54	0.01		P1	tr	DRY
RC97-1679	54	56	0.01		P1	tr	DRY
RC97-1679	56	58	0.01		P1	tr	DRY
RC97-1679	58	60	0.01		P1	tr	DRY

HOLE NO: RC97-1680 SECTION: 17125 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 60.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	20/3/97
Date finished:	20/3/97
Logged by:	A. LAUDRUM
Relogged by:	
Sampled by:	DYLAN AND DAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 21276.40mN 17124.30mE 793.90RL

Pre-collar depth: 50 Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status: HOLE EXTENDED
 Comments: SLOUGHING AT 18M, STUCK AT 36-38M.

Material left in hole: NONE
 Base of complete oxidation: >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	60.00	60.00

*** SUMMARY LOG ***

0.00 1.50 LIMONITIC ALTERED
 QUARTZ MONZONITE
 1.50 13.50 ARGILLITE
 13.50 19.00 LIMONITIC ALTERED
 QUARTZ MONZONITE
 19.00 21.00 ARGILLITE
 21.00 22.00 LIMONITIC ALTERED
 QUARTZ MONZONITE
 22.00 28.00 ARGILLITE
 28.00 35.50 LIMONITIC ALTERED
 QUARTZ MONZONITE
 35.50 38.50 LIMONITIC QUARTZ
 MONZONITE
 38.50 43.00 LIMONITIC ALTERED
 QUARTZ MONZONITE
 43.00 60.00 GRAPHITIC ARGILLITE
 60.00 END OF HOLE

Checked and signed: RD.

Date: MAY 19/97

From	To	Geological Log
0.00	1.50	<p>Limonitic Altered Quartz Monzonite C0, S1, P3 - P4, tr py, 6% Lm Medium orange/brown limonite altered quartz monzonite with pervasive limonite alteration and 1% weakly limonite stained pitted quartz chips. No reaction to HCl. igneous texture obscured. Iron and manganese oxides occur on fractures surfaces and as disseminated blebs and stringers within the Limonitic Altered Quartz Monzonite. The oxidized blebs have tr tarnished py near the centre.</p>
1.50	13.50	<p>Argillite C0, S2 - S3, P4, tr Lm Black argillite that is moderately to strongly silicified with quartz veinletss and stockwork. Trace limonite is found along bedding plans, along fractures surfaces and as disseminated specks. No reaction to HCl. 7.5 to 11 metres is dominantly quartz vein material.</p>
13.50	19.00	<p>Limonitic Altered Quartz Monzonite C1, S2, P3 - P4, tr py, 4% Lm Medium to light orange/brown limonite altered quartz monzonite with a slight pink tinge. Limonite alteration is moderately pervasive with relative fresh quartz eyes. Disseminated patches of iron and manganese oxides with trace py cores have replaced biotite crystals. Unit has a weak blubbling reaction to HCl and it is moderately silicified with 10% white to clear quartz eyes and quartz chips.</p>
19.00	21.00	<p>Argillite C0, S2 - S3, P3, tr py, tr Lm Black argillite that is moderately to strongly silicified with quartz veinletss and stockwork. Trace limonite is found along bedding plans, along fractures surfaces, adjacent to lenses of quartz and as disseminated specks. No reaction to HCl.</p>
21.00	22.00	<p>Limonitic Altered Quartz Monzonite C1, S2, P3, tr py, 4% Lm Medium orange/brown limonite altered quartz monzonite that is weakly argillically atld. Limonite alteration is moderately pervasive with relative fresh quartz eyes. Disseminated patches of iron and manganese oxides with trace py cores have replaced biotite crystals. Unit has a weak blubbling reaction to HCl.</p>
22.00	28.00	<p>Argillite C0, S2 - S3, P3, tr py, tr Lm Black argillite that is moderately to strongly silicified with quartz veinletss and stockwork. Trace limonite is found along bedding plans, along fractures surfaces, as blebs along the endge of veinletss, and as disseminated specks. No reaction to HCl. Trace py occurs as blebs along limonite altered fractures surfaces.</p>
28.00	35.50	<p>Limonitic Altered Quartz Monzonite C1, S1, P2, tr py, tr sb, 4% Lm Light orange/brown altered quartz monzonite. Trace sb occurs as fractures filling within quartz vnl't's. Feldspars have undergone weak argillic alteration to be partially clay minerals. The porphyritic texture remains. Trace py occurs as moderately oxidized blebs within sparce patches of iron and manganese oxides.</p>
35.50	38.50	<p>Limonitic Quartz Monzonite C1, S1, P2, tr py, 3% Lm Brown/green atld quartz monzonite with 10% weakly to moderately altered biotite crystals. The matrix is weakly to moderately pervasively limonite altered throughout, with approximately 10 % of the chips atld to Limonitic Altered Quartz Monzonite - no relict biotite. Trace py occurs within altered biotite crystals.</p>
38.50	43.00	<p>Limonitic Altered Quartz Monzonite C1, S1, P2, tr py, 3% Lm Light orange/brown altered quartz monzonite with a reddish tinge. Feldspars have undergone weak argillic alteration to be partially clay minerals. The porphyritic texture remains. Trace py occurs as moderately oxidized blebs within sparce patches of iron and manganese oxides.</p>

From	To	Geological Log
43.00	60.00	Graphitic Argillite C3, S0-S1, P1, tr py, tr Lm Black graphitic argillite, strongly calcareous with stringers of carbonate and carbonate flooding. Limonite occurs along fractures surfaces to the bottom of the hole. Trace oxidized py is associated with the limonite fractures. Unit reacts strongly with HCl - producing smoke!

*** END OF HOLE *** 60.00

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1680	0	2	0.16		P3	1	DRY
RC97-1680	2	4	0.28		P3	tr	DRY
RC97-1680	4	6	0.14		P4	0	DRY
RC97-1680	6	8	0.09		P4	0	DRY
RC97-1680	8	10	0.09		P4	0	DRY
RC97-1680	10	12	0.04		P4	0	DRY
RC97-1680	12	14	0.07		P3	tr	DRY
RC97-1680	14	16	0.07		P3	tr	DRY
RC97-1680	16	18	0.03		P3	tr	DRY
RC97-1680	18	20	0.02		P3	tr	DRY
RC97-1680	20	22	0.02		P3	1	DRY
RC97-1680	22	24	0.03		P3	tr	DRY
RC97-1680	24	26	0.02		P3	tr	DRY
RC97-1680	26	28	0.04		P3	tr	DRY
RC97-1680	28	30	0.03		P2	tr	DRY
RC97-1680	30	32	0.02		P2	tr	DRY
RC97-1680	32	34	0.02		P2	tr	DRY
RC97-1680	34	36	0.03		P2	tr	DRY
RC97-1680	36	38	0.02		P2	tr	DRY
RC97-1680	38	40	0.05		P2	tr	DRY
RC97-1680	40	42	0.04		P2	tr	DRY
RC97-1680	42	44	0.04		P2	tr	DRY
RC97-1680	44	46	0.04		P3	tr	DRY
RC97-1680	46	48	0.05		P3	tr	DRY
RC97-1680	48	50	0.05		P3	tr	DRY
RC97-1680	50	52	0.04		P3	tr	DRY
RC97-1680	52	54	0.05		P3	tr	DRY
RC97-1680	54	56	0.06		P3	tr	DRY
RC97-1680	56	58	0.06		P3	tr	DRY
RC97-1680	58	60	0.04		P3	tr	DRY

HOLE NO: RC97-1681

SECTION:17125

GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 70.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	21/3/97
Date finished:	21/3/97
Logged by:	A. LAUDRUM
Relogged by:	
Sampled by:	DAN

*** COLLAR COORDINATES AND RL ***

SURVEYED	21244.30mN	17126.60mE	793.40RL
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Pre-collar depth: 50 Final depth: 70.00
 Purpose of hole: EXPLORATION
 Hole status: HOLE EXTENDED
 Comments: LAQM AT 60M: HOLE EXTENDED TO 70M.

Material left in hole: NONE
 Base of complete oxidation: >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method: NONE

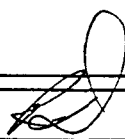
Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	70.00	70.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	7.00	LIMONITIC ALTERED QUARTZ MONZONITE
7.00	10.00	ARGILLITE
10.00	12.50	LIMONITIC ALTERED QUARTZ MONZONITE
12.50	16.00	ARGILLITE
16.00	21.50	LIMONITIC ALTERED QUARTZ MONZONITE
21.50	26.00	GRAPHITIC ARGILLITE
26.00	27.50	LIMONITIC ALTERED QUARTZ MONZONITE
27.50	30.00	SHALE
30.00	32.00	LIMONITIC ALTERED QUARTZ MONZONITE
32.00	42.00	ARGILLITE
42.00	59.00	LIMONITIC ALTERED QUARTZ MONZONITE
59.00	60.00	ARGILLITE
60.00	70.00	LIMONITIC ALTERED QUARTZ MONZONITE
70.00		END OF HOLE

Checked and signed: 

Date: MAY 17/97

From	To	Geological Log
0.00	4.00	Colluvium Overburden
4.00	7.00	Limonic Altered Quartz Monzonite C1, S2, P4, 3% Lm Light orange/brown limonite quartz monzonite with limonite staining coating quartz chips and weakly pervasive within the quartz monzonite. Trace relict disseminated cubic iron oxide stains indicate the past presence of py. The unit is moderately silicified with quartz chips and quartz flooding. 1% of the quartz monzonite has a red brown tinge and pseudomorphs of white mica evident the remainder of the unit has its igneous texture removed.
7.00	10.00	Argillite C0, S3, P4, 2% sb, 2% Lm Dark grey to black non-graphitic argillite with strong to intense silicification marginal to a moderately well developed quartz stockwork. Up to 2% stibnite flooding into matrix and rarely in Sb-stringers. Trace pyrite finely disseminated in matrix is completely oxidized to limonite. Limonite occurs as disseminated blebs at edges of veinlets and as thin bands.
10.00	12.50	Limonic Altered Quartz Monzonite C1, S2, P4, 5% Lm Light orange/brown limonite quartz monzonite with limonite staining thickly coating quartz chips and moderately to strongly pervasive within the quartz monzonite. The unit is moderately silicified with quartz chips and quartz flooding. 1% of the quartz monzonite has a red brown tinge and pseudomorphs of white mica evident the remainder of the unit has its igneous texture removed. Trace iron and manganese oxides occur along fractures surfaces.
12.50	16.00	Argillite C0, S2, P4, 1% sb, tr Lm Dark grey to black non-graphitic argillite with strong to intense silicification marginal to a moderately well developed quartz stockwork. 1% stibnite flooding into matrix and rarely in Sb-stringers. Trace pyrite finely disseminated in matrix is completely oxidized to limonite. Limonite alteration occurs as blebs along veinlets.
16.00	21.50	Limonic Altered Quartz Monzonite C0, S1, P3, 1% py, 4% Lm Medium orange/brown limonite altered quartz monzonite. A narrow band of Graphitic Argillite at 18 metres. Iron and Mn oxides occur on fractures surfaces and as patches replacing biotite. Trace strongly altered biotite contains strongly oxidized blebs of py. The limonite alteration is pervasive.
21.50	26.00	Graphitic Argillite C0, S1, P3, tr py, tr Lm Black graphitic argillite. Limonite occurs along fractures surfaces. Trace oxidized py is associated with the limonite fractures and with quartz veinlets. Qtz stockwork and clear chips of quartz occur in the unit.
26.00	27.50	Limonic Altered Quartz Monzonite C0, S1, P2, 1% py, 3% Lm Light orange/brown limonite altered quartz monzonite. Limonite alteration coats and is moderately pervasive in the unit. 1% disseminated fine grained py is weakly to moderately oxidized.
27.50	30.00	Shale 60:40 Argillite, C0, S2, P2, tr py, tr sb, tr Lm Dark grey shale grades into silicified black argillite. Qtz stockwork occurs within the argillite. Limonite occurs along fractures surfaces and at the edges of veinlets. Trace py is disseminated within the veinlets.
30.00	32.00	Limonic Altered Quartz Monzonite C1, S1, P2, 1% py, 3% Lm Light orange/brown limonite altered quartz monzonite. Limonite alteration coats and is moderately pervasive in the unit. 1% disseminated fine grained py is weakly to moderately oxidized. Similar to short interval of Limonic Altered Quartz Monzonite at 26m

From	To	Geological Log
32.00	42.00	<p>Argillite C0 - C1, S3, P3, tr py, tr sb, 1% Lm Black silicified argillite with an approx. 1 metres thick band of Limonitic Altered Quartz Monzonite at 35 metres depth. Trace oxidized py is associated with the limonite fractures and bands in the argillite and the Limonitic Altered Quartz Monzonite has pervasive limonite atln. Trace stibnite is disseminated and occurs as thin veinlets. The whole interval is strongly silicified with up to 50% quartz stockwork, veinlets and chips.</p>
42.00	59.00	<p>Limonitic Altered Quartz Monzonite C1, S1, P1 - P2, tr py, 2% Lm Medium orange/brown limonite altered quartz monzonite. Manganese and iron oxides obscure/replace biotite crystals. Trace disseminated py is weakly oxidized. Pervasive limonite alteration continues across the whole interval</p>
59.00	60.00	<p>Argillite C2, S2, P1, tr py, tr Lm Black argillite, moderately calcareous with stringers of quartz carbonate and carbonate flooding. Limonite occurs along fractures surfaces. Trace oxidized py is associated with the limonite fractures.</p>
60.00	70.00	<p>Limonitic Altered Quartz Monzonite C2, S1, P1, tr py, 2% Lm Medium orange/brown limonite altered quartz monzonite with a pinkish tinge. White mica, sericite has replace biotite crystals. Trace disseminated py has been weakly oxidized. Weak pervasive limonite alteration continues across the whole interval. Calcite crystals occur as descrete chips and the unit reacts with an immediate hissing to HCl.</p>

*** END OF HOLE *** 70.00

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1681	0	2	0.08		P3	1	WET
RC97-1681	2	4	0.14		P3	1	DRY
RC97-1681	4	6	0.04		P4		DRY
RC97-1681	6	8	0.08		P4		DRY
RC97-1681	8	10	0.74		P4		DRY
RC97-1681	10	12	2.63		P4		DRY
RC97-1681	12	14	0.63		P4		DRY
RC97-1681	14	16	0.31		P4		DRY
RC97-1681	16	18	0.15		P3	tr	DRY
RC97-1681	18	20	0.18		P3	tr	DRY
RC97-1681	20	22	0.09		P3	tr	DRY
RC97-1681	22	24	0.02		P3	tr	DRY
RC97-1681	24	26	0.02		P2	1	DRY
RC97-1681	26	28	0.03		P2	1	DRY
RC97-1681	28	30	0.78		P2	tr	DRY
RC97-1681	30	32	1.83		P2	1	DRY
RC97-1681	32	34	0.18		P3	1	DRY
RC97-1681	34	36	0.40		P3	1	DRY
RC97-1681	36	38	1.73		P3	1	DRY
RC97-1681	38	40	0.09		P3	1	DRY
RC97-1681	40	42	0.10		P3	1	DRY
RC97-1681	42	44	0.10		P2	1	DRY
RC97-1681	44	46	0.08		P2	1	DRY
RC97-1681	46	48	0.03		P1	1	DRY
RC97-1681	48	50	0.05		P1	1	DRY
RC97-1681	50	52	0.31		P1	1	DRY
RC97-1681	52	54	0.04		P1	tr	DRY
RC97-1681	54	56	0.33		P1	tr	DRY
RC97-1681	56	58	0.32		P2	tr	DRY
RC97-1681	58	60	1.09		P1	tr	DRY
RC97-1681	60	62	0.58		P1	tr	DRY
RC97-1681	62	64	0.26		P1	tr	DRY
RC97-1681	64	66	0.50		P1	tr	DRY
RC97-1681	66	68	0.27		P1	tr	DRY
RC97-1681	68	70	0.21		P1	tr	WET

HOLE NO: RC97-1682 SECTION: 20695 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT PROSPECT :
 GRID : MINE
 MAP REFERENCE : MINE
 LOCATION : NORTH SLOPE
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 140.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAM
Date started:	21/3/97
Date finished:	22/3/97
Logged by:	A. LAUDRUM
Relogged by:	
Sampled by:	DAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 20930.40mN 20695.30mE 1076.10RL

Pre-collar depth: 140 Final depth: 140.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: 7M CASING, LIMITED WATER ENCOUNTERED FROM 60-64 M

Material left in hole: NONE
 Base of complete oxidation 38
 Top of fresh rock: 68
 Water first encountered: 68
 Water inflow estimate: 3 GAL/MIN

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SIGNIFICANT ASSAYS ***

From	To	Width
0.00	140.00	140.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	8.00	SILTSTONE (STEEL FORMATION)
8.00	18.00	GRAPHITIC ARGILLITE
18.00	20.00	SILTSTONE (STEEL FORMATION)
20.00	37.00	SILTSTONE (STEEL FORMATION)
37.00	41.00	ARGILLITE
41.00	49.00	SILTSTONE (STEEL FORMATION)
49.00	56.00	GRAPHITIC ARGILLITE
56.00	61.00	SILTSTONE (STEEL FORMATION)
61.00	63.00	SILTSTONE (STEEL FORMATION)
63.00	66.00	SILTSTONE (STEEL FORMATION)
66.00	68.00	SILTSTONE (STEEL FORMATION)
68.00	75.00	GRAPHITIC ARGILLITE
75.00	84.00	SILTSTONE (STEEL FORMATION)
84.00	89.00	GRAPHITIC ARGILLITE
89.00	106.00	SILTSTONE (STEEL FORMATION)
106.00	107.00	SILTSTONE (STEEL FORMATION)
107.00	110.00	GRAPHITIC ARGILLITE
110.00	124.00	SILTSTONE (STEEL FORMATION)
124.00	125.00	GRAPHITIC SHALE

Checked and signed:

A. Laudrum

Date:

Nov 4/97

HOLE NO: RC97-1682

SECTION:20695

GRID:MINE

135.00	135.00	GRAPHITIC SHALE
135.00	140.00	GRAPHITIC SHALE
140.00		END OF HOLE

Checked and signed: _____ Date: _____

n	To	Geological Log
0.00	2.00	Colluvium Overburden
2.00	8.00	Siltstone (Steel Formation) C1, S1, P3, 2% Lm, tr py Buff to orange/buff siltstone, moderately limonite alteration along fractures. Py altered orange / red and brown / black. Wk delayed carbonate reaction. Chips are generally massive Siltstone (Steel Formation) with relict disseminated py crystals. 1% quartz chips.
8.00	18.00	Graphitic Argillite 85:15 Siltstone (Steel Formation), C0, S1, P3, 1% Lm, 2% py Platye Graphitic Argillite and Siltstone (Steel Formation) with limonite staining and py along fractures surfaces. Minor quartz stockwork and Quartz Monzonite.
18.00	20.00	Siltstone (Steel Formation) C1, S0, P3, 2% py, 4% Lm Orange/buff coloured chips with black dendritic manganese oxide on fractures surfaces. Oxidized fine grained disseminated py within matrix of grey chips. Weak carbonate reaction to HCl on scratched surfaces.
20.00	37.00	Siltstone (Steel Formation) C1, S1, P3, 1% Lm, tr py Tan Siltstone (Steel Formation) with very few chips of limonite altered Siltstone (Steel Formation) similar to interval above. Weak carbonate reaction on scratched surfaces. Relict disseminated py crystals up to 2%. Remaining py clots and chips with disseminated py are pitted and weakly tarnished. Limonitic alteration and oxidized py stain along 5% of chips fractures surfaces.
37.00	41.00	Argillite C0, S0, P1, 1% py Black very fine grained banded argillite with bands of fine grained sulphides. Moderately calcareous. Trace aspy blebs, stibnite ?. Trace quartz carbonate vnits.
41.00	49.00	Siltstone (Steel Formation) 70:30 Argillite, C0, S2, 1% sulphides (aspy, py) P2, Light gray Siltstone (Steel Formation) with interbands of sulphides enriched argillite. Sulf grains are pitted and tarnished. No carbonate reaction. Argillite is weakly to moderately silicified and weakly carbonaceous. Siltstone (Steel Formation) is moderately silicified and contains mineralized quartz stockwork.
49.00	56.00	Graphitic Argillite C0, S1, P1, 1% aspy, tr py Medium grey graphitic argillite with trace euhedral crystals of py up to 1mm diameter. Blebs of aspy and fine grained to mg disseminated sulphides. Grey clay commonly adhered to chips. Trace quartz crystals. Pyrite also occurs as thin bands in the argillite.
56.00	61.00	Siltstone (Steel Formation) 60:40 Graphitic Argillite, C0, S1, P1, 2% sulphides (py, aspy) Light to medium grey siltstone interbedded with black graphitic argillite. Fine grained disseminated aspy and py. 5% of chips are quartz vein or stockwork material.
61.00	63.00	Siltstone (Steel Formation) Fault zone, S2, C1, P1, 4% sulphides Water encountered at 61.5 in RC hole. Unwashed sample consists of predominately wet clay. Chips are similar to above unit with increase silicification. 2% quartz vnits, very fine grained disseminated 2% sulphides (py and aspy).
63.00	66.00	Siltstone (Steel Formation) As above in unit 56 metres to 61 metres.
66.00	68.00	Siltstone (Steel Formation) 40:60 quartz vein, C3, S4, P1, tr py 60% green gray quartz vein within dark grey siltstone and argillite. Tarnished trace py within quartz. Weak to moderately carbonate reaction on scratched surfaces.
68.00	75.00	Graphitic Argillite C0, S1, P0, tr aspy ...medium grey argillite with 5% quartz veinlets rich in aspy.
75.00	84.00	Siltstone (Steel Formation) 70:30 quartz stockwork, C0, S3, P0, 1% to 2% aspy Silicious grey quartz with 2% disseminated aspy and quartz stockwork chips with 1% aspy blebs. Very fine grained silt and clay from 82 to 84 metres in unwashed sample. Water encountered at 76 metres and contiunues downhole at > 3 gal/min.

n	To	Geological Log
84.00	89.00	Graphitic Argillite C0, S2, 2% aspy, tr py - P1 Medium to dark grey graphitic argillite, with 2% aspy as bands and disseminated, also within quartz veinlets. Trace relict py grains within argillite and in quartz - remaining is oxidized orange. 2% quartz stockwork.
89.00	106.00	Siltstone (Steel Formation) C0, S2, P0, 2% sulphides (py, aspy) Medium grey mineralized siltstone with trace aspy blebs and 1% fine grained py along fractures surfaces and 1% fine grained disseminated py. Occasional chips of massive euhedral py crystals. Siltstone is interbedded with minor quantities of argillite. Mineralized quartz stockwork chips make up 10% of interval. Significant Au results from 94 to 100 metres.
106.00	107.00	Siltstone (Steel Formation) 55:45 Graphitic Argillite, C1, S3, P0, tr sulphides (py, aspy) 25% of 2 metres interval consists of quartz carbonate veinlets, mineralized exists as blebs and bands of py and aspy within the Graphitic Argillite and along edges of the vnlt. The Siltstone (Steel Formation) contains tr fine grained disseminated sulphides as well as cross cutting mineralized vnlt.
107.00	110.00	Graphitic Argillite 75:25 Siltstone (Steel Formation), C0, S1, P0, 1% py Dark grey / black graphitic argillite interbedded with mineralized Siltstone (Steel Formation) and quartz stockwork. Pyrite occurs as blebs within the argillite and along fractures surfaces and within the quartz stockwork in the siltstone.
110.00	124.00	Siltstone (Steel Formation) C0, S2, P0, 3% sulphides (py, aspy) Medium grey silicified siltstone with fine grained disseminated py. Occasional py xstal has an oxidized rim. Mineralized quartz veinlets and stockwork fill fractures within siltstone. Quick log states 110 to 116 metres is Siltstone (Steel Formation) with calcite and quartz, 116 to 122.9 metres is Siltstone (Steel Formation) with quartz and sulphides and water flow has increased to 15 gal/min. From 122.9 to 124.8 Siltstone (Steel Formation) with no sulphides.
124.00	125.00	Graphitic Shale C0, S1, P0, 3% sulphides Black platy graphitic shale with 2-3% bands of fine grained sulphides, also contains trace disseminated sulphides. Occasional chips of quartz vein material (trace to 1% of sample) with tr py and aspy. Also occasional chips (<1% of sample) containing 60% subhedral to anhedral py crystals, 10% quartz within a fine grained black matrix.
125.00	135.00	Graphitic Shale 65:35 Siltstone (Steel Formation), C1, S2, P0, 3% sulphides (aspy, py) Black mineralized graphitic shale and medium grey mineralized siltstone with mineralized quartz stockwork and vnlt. Py and aspy present as narrow massive bands within the shale. Trace aspy occurs within the siltstone as fine grained blebs. Trace to 1% disseminated py crystals and euhedral py crystals occur along fractures surfaces within the siltstone. Most of the mineralized is associated with cross cutting fractures generally filled with quartz and carbonate veinlets that are rimmed with sulphides. Unit described in quick log as Graphitic Argillite with interbeds of Siltstone (Steel Formation) that are <20 cm.
135.00	140.00	Graphitic Shale C0, S1, P0, 3% sulphides Black platy graphitic shale with 2-3% bands of fine grained sulphides, also contains trace disseminated sulphides. Occasional chips of quartz vein material (trace to 1% of sample) with tr py and asov. Also occasional chips (<1% of sample) containing 60% subhedral to anhedral py crystals, 10% quartz within a fine grained black matrix. Quick log notes a 0.6 metres section of Graphitic Argillite at 138.1 to 138.7 metres.

*** END OF HOLE *** 140.00

RC Drillhole RC97-1682
 Sample Log

11/3/97

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1682	0	2	0.10				DRY
RC97-1682	2	4	0.08		P3	tr	DRY
RC97-1682	4	6	0.03		P3	tr	DRY
RC97-1682	6	8	0.08		P3	tr	DRY
RC97-1682	8	10	0.10		P3	2	DRY
RC97-1682	10	12	0.21		P3	2	DRY
RC97-1682	12	14	0.32		P3	2	DRY
RC97-1682	14	16	0.05		P3	2	DRY
RC97-1682	16	18	0.05		P3	2	DRY
RC97-1682	18	20	0.04		P3	2	DRY
RC97-1682	20	22	0.02		P3	tr	DRY
RC97-1682	22	24	0.04		P3	tr	DRY
RC97-1682	24	26	0.08		P3	tr	DRY
RC97-1682	26	28	0.07		P3	tr	DRY
RC97-1682	28	30	0.05		P3	tr	DRY
RC97-1682	30	32	missing		P3	tr	DRY
RC97-1682	32	34	0.02		P3	tr	DRY
RC97-1682	34	36	0.03		P3	tr	DRY
RC97-1682	36	38	<0.02		P3	tr	DRY
RC97-1682	38	40	0.02		P1	1	DRY
RC97-1682	40	42	0.05		P1	1	DRY
RC97-1682	42	44	0.04		P2	1	DRY
RC97-1682	44	46	0.02		P2	1	DRY
RC97-1682	46	48	<0.02		P1	1	DRY
RC97-1682	48	50	0.07		P1	1	DRY
RC97-1682	50	52	0.13		P1	1	DRY
RC97-1682	52	54	0.07		P1	1	DRY
RC97-1682	54	56	0.29		P1	1	DRY
RC97-1682	56	58	0.28		P1	2	DRY
RC97-1682	58	60	0.08		P1	2	DRY
RC97-1682	60	62	0.24		P1	2	WET
RC97-1682	62	64	0.08		P1	4	WET
RC97-1682	64	66	0.15		P1	4	DRY
RC97-1682	66	68	<0.02		P1	tr	DRY
RC97-1682	68	70	0.04		P0	tr	WET
RC97-1682	70	72	0.04		P0	tr	WET
RC97-1682	72	74	<0.02		P0	tr	WET
RC97-1682	74	76	<0.02		P0	tr	WET
RC97-1682	76	78	0.03		P0	tr	WET
RC97-1682	78	80	0.03		P0	tr	WET
RC97-1682	80	82	<0.02		P0	tr	WET
RC97-1682	82	84	1.65		P0	2	WET
RC97-1682	84	86	1.24		P1	2	WET
RC97-1682	86	88	0.03		P1	2	WET
RC97-1682	88	90	0.03		P0	2	WET

RC Drillhole RC97-1682
Sample Log

11/3/97

RC97-1682	90	92	0.10		P0	2	WET
RC97-1682	92	94	0.26		P0	2	WET
RC97-1682	94	96	0.52		P0	2	WET
RC97-1682	96	98	2.37		P0	2	WET
RC97-1682	98	100	3.03		P0	2	WET
RC97-1682	100	102	0.05		P0	2	WET
RC97-1682	102	104	<0.02		P0	2	WET
RC97-1682	104	106	0.99		P0	tr	WET
RC97-1682	106	108	0.32		P0	1	WET
RC97-1682	108	110	0.08		P0	1	WET
RC97-1682	110	112	0.02		P0	3	WET
RC97-1682	112	114	0.04		P0	3	WET
RC97-1682	114	116	0.03		P0	3	WET
RC97-1682	116	118	0.07		P0	3	WET
RC97-1682	118	120	0.02		P0	3	WET
RC97-1682	120	122	<0.02		P0	3	WET
RC97-1682	122	124	<0.02		P0	3	WET
RC97-1682	124	126	0.02		P0	3	WET
RC97-1682	126	128	0.02		P0	3	WET
RC97-1682	128	130	0.06		P0	3	WET
RC97-1682	130	132	<0.02		P0	3	WET
RC97-1682	132	134	0.04		P0	3	WET
RC97-1682	134	136	0.04		P0	3	WET
RC97-1682	136	138	0.04		P0	3	WET
RC97-1682	138	140	0.03		P0	3	WET

HOLE NO: RC97-1683 SECTION:20696.1 GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT PROSPECT :
 GRID : MINE
 MAP REFERENCE : MINE
 LOCATION : NORTH SLOPE
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 190.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	22/3/97
Date finished:	23/3/97
Logged by:	A. LAUDRUM
Relogged by:	
Sampled by:	DYLAN AND DAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 20847.20mN 20696.10mE 1121.90RL

Pre-collar depth: 190 Final depth: 190.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: >3 GAL/MIN AT 105.5M

Material left in hole: NONE
 Base of complete oxidation: 66
 Top of fresh rock: 90
 Water first encountered: 86
 Water inflow estimate: <3 GAL/MIN

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-70.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

3.00	8.00	COLLUVIUM
8.00	30.00	SILTSTONE (STEEL FORMATION)
30.00	37.50	ARGILLITE
37.50	52.50	LIMONITIC QUARTZ MONZONITE
52.50	58.00	GRAPHITIC ARGILLITE
58.00	66.00	LIMONITIC QUARTZ MONZONITE
66.00	76.00	GRAPHITIC ARGILLITE
76.00	87.00	GRAPHITIC ARGILLITE
87.00	93.00	INTERMEDIATE LITHIC TUFF
93.00	105.00	SILTSTONE (STEEL FORMATION)
105.00	123.50	GRAPHITIC ARGILLITE
123.50	128.50	ALTERED QUARTZ MONZONITE
128.50	137.50	GRAPHITIC ARGILLITE
137.50	164.00	SILTSTONE (STEEL FORMATION)
164.00	174.00	SILTSTONE (STEEL FORMATION)
174.00	180.00	SILTSTONE (STEEL FORMATION)
180.00	183.50	GRAPHITIC ARGILLITE
183.50	190.00	SILTSTONE (STEEL FORMATION)
.00		END OF HOLE

Checked and signed: A. Laudrum Date: Nov 4/97

F	To	Geological Log
0.00	3.00	Colluvium Overburden and fill
3.00	8.00	Siltstone (Steel Formation) C1-C2, S0, P2-P4, 1% py, 2% Lm Orange/buff coloured siltstone interbedded with black argillite. Limonite alteration is weakly pervasive in the siltstone and occurs along fractures surfaces on the few argillite chips. The py is fine grained and disseminated within the siltstone. Carbonation increases downhole from weak to moderate. The ratio of limonite altered siltstone increases downhole also.
8.00	30.00	Siltstone (Steel Formation) 80:20 Argillite, C1-C2, S1, P3-P4, 1% py, 1% Lm Light to medium grey tan weathered siltstone is intercalated with black aphanitic argillite. It is weakly calcareous overall and moderately calcareous from 14 to 18 metres depth. Limonite alteration is more pervasive in the siltstone. The argillite is speckled with limonite. 1% py occurs along fractures surfaces and it is intensely to strongly oxidized.
30.00	37.50	Argillite C2, S0-S1, P3-P4, tr py, tr Lm Blocky black calcareous argillite. Limonite occurs on fractures surfaces and along the boundaries of disseminated sulphide grains.
37.50	52.50	Limonitic Quartz Monzonite 60:40 Limonitic Altered Quartz Monzonite, C2, S1, P3, tr py 3% Lm Medium orange brown limonite altered quartz monzonite grades into weakly altered porphyritic quartz monzonite which contains 5-10% partially altered biotite in a calcareous green coloured groundmass. The biotite in the Limonitic Altered Quartz Monzonite has been almost completely oxidized leaving bleached euhedral micas and oxidized pyrite. The intensity of limonite alteration decreases downhole as does the intensity of the biotite alteration. Fe and Mg oxides occur on fractures surfaces from 38 to 40 metres. Trace stibnite veinlets occur 40 to 42 metres.
50	58.00	Graphitic Argillite C0, S0-S1, P3, tr py, tr Lm Black blocky aphanitic graphitic argillite. Strongly oxidized py occurs as blebs along fractures surfaces. Quartz stockwork is introduced at the bottom of the interval.
58.00	66.00	Limonitic Quartz Monzonite C2, S1, P3, 1% py, 3% Lm Limonitic quartz monzonite has partially altered biotite in a calcareous blue/green groundmass. 1% strongly oxidized py occurs as a replacement of biotite flakes. The groundmass has generally been pervasively limonite altered.
66.00	76.00	Graphitic Argillite C1, S1, P3, tr py, tr Lm Black graphitic moderately fissile argillite has trace quartz carbonate stockwork. Strongly oxidized py is associated with the stockwork.
76.00	87.00	Graphitic Argillite 60:40 Siltstone (Steel Formation), C1-C2, S1, P1-P2, tr py, tr Lm Black graphitic argillite is interbedded with grey siltstone. Traces of hairline white quartz carbonate stockwork occur. Traces of limonite occur along fractures surfaces in both the argillite and the siltstone. Fresh pyrite occurs as fine grained crystals along fractures surfaces in the siltstone and as weakly to moderately oxidized disseminated crystals in the argillite. Carbonate content increases at the bottom of the interval.
87.00	93.00	Intermediate Lithic Tuff C1, S1, P1, 1% py, tr Lm Dark green, blocky and speckled with weakly altered mg py crystals and milky white fine grained to mg subhedral crystals (feldspars? quartz?). Pyrite has partially replaced some of the milky white specks. Minor quartz carbonate veinlets cross cut the unit from 92 to 93 metres depth.
93.00	105.00	Siltstone (Steel Formation) 90:10 Intermediate Lithic Tuff, C1, S1-S2, P1-P2, 1% py, tr Lm Light to medium grey siltstone is interbedded with dark green tuffaceous sediment with quartz carbonate veinlets from 98 metres to 105 metres. The siltstone has a porphyritic texture similar to the mafic unit above. Weakly to moderately oxidized py occurs as mg blebs along fractures surfaces in the siltstone and along veinlet edges in the mafic sediment. Limonite has altered the quartz carbonate stockwork and it also occurs along fractures surfaces of the siltstone.

From	To	Geological Log
105.00	123.50	<p>Graphitic Argillite C2, S1-S2, P1, tr py, tr Lm Black graphitic argillite is cross cut with quartz carbonate veinlets. Fine grained py occurs within the veinlets and along their edges. Tr limonite staining occurs within narrow veinlets.</p>
123.50	128.50	<p>Altered Quartz Monzonite 85:15 Graphitic Argillite, C3, S1, P0-P1, 1% py, tr Lm Pale green grey altered quartz monzonite exhibits weak remnant igneous textures. Groundmass is very calcareous and has undergone sericite alteration and moderate silicification. 1% py occurs as fresh to weakly altered mg disseminated crystals. Black graphitic argillite is interbedded with the altered quartz monzonite.</p>
128.50	137.50	<p>Graphitic Argillite 75:15:5 SST:CH, C2, S1-S2, P0-P1, 3% py Blocky black graphitic argillite is interbedded with black chert and medium grey siltstone. Quartz carbonate veinlets and stockwork cross cut the interval. 3% py occurs as bands associated with the quartz veining and as fine grained disseminated blebs within the siltstone. Weakly oxidized chips of massive py occur throughout the interval.</p>
137.50	164.00	<p>Siltstone (Steel Formation) 85:15 Graphitic Argillite, C2, S1, P0-P3, 1% py, tr Lm Light to medium grey moderately calcareous siltstone is interbedded with black graphitic argillite. Dark very fine-grained py occurs in wispy bands in the siltstone. Trace weakly to moderately oxidized is disseminated within the siltstone and argillite. Trace limonite occurs along fractures surfaces and as rims around py grains at 146 to 150 metres, and 160 to 162 metres depth. Trace quartz carbonate veinlets and stockwork occurs throughout the interval, and intensify at contacts with argillite. The amount of argillite increases to 50% of unit from 154 to 158 metres, and 162 to 164 metres. 1% quartz chips and crosscutting veinlets occur from 144 to 150 metres, and 154 to 156 metres.</p>
164.00	174.00	<p>Siltstone (Steel Formation) C1, S1, P1, 2% py, tr cpy, tr Lm Light to medium grey siltstone contains tr disseminated mg crystals of trashed py. 2% unoxidized py occurs as fine grained blebs along fractures surfaces and in wispy bands. 3% dark grey argillite occurs throughout the unit. Trace milky white chips of quartz and thin quartz veinlets with limonite altered rims are present.</p>
174.00	180.00	<p>Siltstone (Steel Formation) 85:15 Argillite, C1, S1, P1, 2% py, tr Lm Light to medium grey siltstone is intercalated with black graphitic argillite. 7% quartz carbonate stockwork and veins crosscut both units. Fresh pyrite occurs as mg disseminated crystals in the argillite and very fine grained disseminations within the siltstone. Weakly oxidized py occurs along fractures surfaces and veinlet rims.</p>
180.00	183.50	<p>Graphitic Argillite C2, S1, P1, 1% py, tr Lm Black graphitic argillite is moderately calcareous and tr quartz carbonate veinlets. Fresh fine aggregates of py occur along fractures surfaces. Weakly oxidized py occurs along veinlet rims. The quartz veinlets are weakly limonite altered.</p>
183.50	190.00	<p>Siltstone (Steel Formation) 90:10 Chert, C1, S1, P1-P2, 1% py, tr Lm Light to medium grey fissile siltstone with traces of narrow milky white quartz stockwork is interbedded with black chert. Weakly oxidized fine grained py occurs in narrow bands within the siltstone and as moderately oxidized fine grained sheets along fractures surfaces. Trace limonite occurs along fractures surfaces.</p>

*** END OF HOLE *** 190.00

RC Drillhole RC97-1683
Sample Log

11/3/97

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1683	0	2	0.03				WET
RC97-1683	2	4	0.02		P3	1	DRY
RC97-1683	4	6	<0.02		P3	2	DRY
RC97-1683	6	8	<0.02		P4	1	DRY
RC97-1683	8	10	<0.02		P4		DRY
RC97-1683	10	12	<0.02		P4	1	DRY
RC97-1683	12	14	<0.02		P3	1	DRY
RC97-1683	14	16	<0.02		P3	1	DRY
RC97-1683	16	18	<0.02		P4	2	DRY
RC97-1683	18	20	<0.02		P4	1	DRY
RC97-1683	20	22	<0.02		P3	1	DRY
RC97-1683	22	24	<0.02		P3		DRY
RC97-1683	24	26	0.02		P3	1	DRY
RC97-1683	26	28	<0.02		P3	1	DRY
RC97-1683	28	30	0.04		P4	tr	DRY
RC97-1683	30	32	<0.02		P3	1	DRY
RC97-1683	32	34	0.05		P4	1	DRY
RC97-1683	34	36	<0.02		P3	tr	DRY
RC97-1683	36	38	0.03		P4	tr	WET
RC97-1683	38	40	0.07		P3	2	DRY
RC97-1683	40	42	0.29		P3	tr	DRY
RC97-1683	42	44	0.07		P3	tr	DRY
RC97-1683	44	46	0.03		P3	tr	DRY
RC97-1683	46	48	0.07		P3	1	WET
RC97-1683	48	50	0.11		P3	tr	DRY
RC97-1683	50	52	0.08		P3	tr	DRY
RC97-1683	52	54	0.04		P4	tr	DRY
RC97-1683	54	56	0.02			0	DRY
RC97-1683	56	58	0.18		P3	tr	DRY
RC97-1683	58	60	0.05		P3	tr	DRY
RC97-1683	60	62	0.03		P2	tr	DRY
RC97-1683	62	64	0.04		P3	1	DRY
RC97-1683	64	66	0.03		P3	1	DRY
RC97-1683	66	68	0.05		P3	tr	DRY
RC97-1683	68	70	0.05		P2	tr	DRY
RC97-1683	70	72	0.04			0	DRY
RC97-1683	72	74	0.05			0	DRY
RC97-1683	74	76	0.05		P1	tr	WET
RC97-1683	76	78	0.03		P1	tr	DRY
RC97-1683	78	80	0.06		P1	1	DRY
RC97-1683	80	82	0.06		P1	tr	WET
RC97-1683	82	84	0.05		P1	1	WET
RC97-1683	84	86	0.07		P2	tr	WET
RC97-1683	86	88	0.07		P1	tr	WET
RC97-1683	88	90	0.08		P1	1	WET

RC Drillhole RC97-1683
Sample Log

11/3/97

RC97-1683	90	92	0.02		P1	tr	WET
RC97-1683	92	94	0.06		P1	1	WET
RC97-1683	94	96	0.06		P2	1	WET
RC97-1683	96	98	0.02		P1	tr	WET
RC97-1683	98	100	0.02		P1	2	WET
RC97-1683	100	102	0.02		P2	tr	WET
RC97-1683	102	104	0.03		P1	tr	WET
RC97-1683	104	106	0.02		P1	tr	WET
RC97-1683	106	108	0.05		P1	tr	WET
RC97-1683	108	110	0.08		P1	tr	WET
RC97-1683	110	112	0.05		P1	1	WET
RC97-1683	112	114	<0.02		P0	tr	WET
RC97-1683	114	116	<0.02		P0	tr	WET
RC97-1683	116	118	0.05		P1	1	WET
RC97-1683	118	120	0.05		P1	tr	WET
RC97-1683	120	122	0.02		P1	tr	WET
RC97-1683	122	124	<0.02		P0	tr	WET
RC97-1683	124	126	<0.02		P2	1	WET
RC97-1683	126	128	<0.02		P1	tr	WET
RC97-1683	128	130	<0.02		P1	1	WET
RC97-1683	130	132	<0.02		P0	3	WET
RC97-1683	132	134	0.80		P0	2	WET
RC97-1683	134	136	0.04		P0	1	WET
RC97-1683	136	138	0.23		P1	5	WET
RC97-1683	138	140	<0.02		P0	3	WET
RC97-1683	140	142	0.06		P0	3	WET
RC97-1683	142	144	0.05		P1	2	WET
RC97-1683	144	146	<0.02		P1	1	WET
RC97-1683	146	148	0.05		P3	1	WET
RC97-1683	148	150	0.02		P1	2	WET
RC97-1683	150	152	<0.02		P1	2	WET
RC97-1683	152	154	0.03		P1	1	WET
RC97-1683	154	156	0.28		P0	1	WET
RC97-1683	156	158	0.05		P2	1	WET
RC97-1683	158	160	0.04		P0	1	WET
RC97-1683	160	162	0.04		P2	2	WET
RC97-1683	162	164	0.22		P1	1	WET
RC97-1683	164	166	0.14		P1	2	WET
RC97-1683	166	168	0.03		P1	1	WET
RC97-1683	168	170	<0.02		P1	2	WET
RC97-1683	170	172	0.21		P1	3	WET
RC97-1683	172	174	0.04		P1	2	WET
RC97-1683	174	176	0.62		P1	2	WET
RC97-1683	176	178	0.58		P0	2	WET
RC97-1683	178	180	0.36		P1	1	WET
RC97-1683	180	182	<0.02		P1	1	WET
RC97-1683	182	184	0.05		P1	1	WET
RC97-1683	184	186	0.02		P1	1	WET

RC Drillhole RC97-1683
Sample Log

11/3/97

RC97-1683	186	188	0.02		P2	1	WET
RC97-1683	188	190	0.02		P2	1	WET

HOLE NO: RC97-1684 SECTION: 20590.1 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : NORTH SLOPE
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 228.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	23/3/97
Date finished:	24/3/97
Logged by:	A. LAUDRUM
Relogged by:	
Sampled by:	DAN AND DYLAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 20859.00mN 20590.10mE 1109.40RL

Pre-collar depth: 220 Final depth: 228.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 8 M
 Comments: 15 GAL/MIN @ 108M, INITIALLY HOLE CAVED @ 68M & WAS RESTARTED

Material left in hole: NONE
 Base of complete oxidation 47
 Top of fresh rock: 54
 Water first encountered: 103
 Water inflow estimate: 5 GAL/MIN

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	3.00	COLLUVIUM
3.00	38.00	SILTSTONE (STEEL FORMATION)
38.00	52.50	LIMONITIC QUARTZ MONZONITE
52.50	81.00	GRAPHITIC ARGILLITE
81.00	88.00	ALTERED QUARTZ MONZONITE
88.00	97.00	GRAPHITIC ARGILLITE
97.00	104.00	SILTSTONE (STEEL FORMATION)
104.00	107.00	INTERMEDIATE LITHIC TUFF
107.00	135.50	GRAPHITIC ARGILLITE
135.50	138.00	ALTERED QUARTZ MONZONITE
138.00	141.00	GRAPHITIC ARGILLITE
141.00	142.50	GREYWACKE
142.50	150.00	GRAPHITIC ARGILLITE
150.00	174.00	SILTSTONE (STEEL FORMATION)
174.00	180.00	GRAPHITIC ARGILLITE
180.00	219.00	SILTSTONE (STEEL FORMATION)
219.00	228.00	GRAPHITIC ARGILLITE
228.00		END OF HOLE

Checked and signed: A. Laudrum Date: 24/3/97

From	To	Geological Log
0.00	3.00	Colluvium Fill
3.00	38.00	Siltstone (Steel Formation) 90:10 Graphitic Argillite, C2-C3, S0-S1, P0-P4, tr py, 2% Lm Light to medium grey calcareous fissile siltstone with wispy laminations is interbedded with narrow bands of black graphitic argillite. Barrite oxides (psilomelane) occur from 3 to 10 metres depth. Contains chips of hard blue-grey mineralized siliceous dolomite from 8 to 18 metres depth. Intensely oxidized py occurs along fractures surfaces and within tan weathered chips. The fresher blue-grey chips contain 1% fresh pyrite. The amount of argillite increases to 25% from 30 to 38 metres.
38.00	52.50	Limonitic Quartz Monzonite 90:10 Quartz Monzonite, C2, S1, P2-P3, tr py, 3% Lm Limonitic quartz monzonite contains 20% weakly altered black biotite. Edges and the occasional whole xstal of biotite is altered white. Limonite is weakly pervasive to 46 metres depth. From 46 to 52.5 metres 50% of the chips are not limonitically altered. Trace moderately to strongly oxidized py occurs as disseminated within the limonitic quartz monzonite.
52.50	81.00	Graphitic Argillite C2-C3, S0-S1, P0, tr py Black calcareous graphitic argillite contains a trace amount of narrow quartz carbonate veinlets and fresh pyrite stringers. Medium grained py xstals are disseminated within the argillite at the upper and lower contacts.
81.00	88.00	Altered Quartz Monzonite C2, S1, P1, tr py, tr Lm A fault occurs at the upper contact. Pale grey altered quartz monzonite has 10% of the chips with weak pervasive limonite alteration. The biotite has been partially altered to white mica. Trace disseminated mg pyrite is fresh to weakly oxidized. The feldspar xstals have been altered to clay.
88.00	97.00	Graphitic Argillite C1-C3, S0-S1, P0, tr py Black graphitic fissile argillite is interbedded with thin beds of black chert and trace quartz veinlets. Trace fresh pyrite occurs at the lower contact as veinlets and along the edges of quartz carbonate veinlets.
97.00	104.00	Siltstone (Steel Formation) C1, S1, P0, 1%py Medium grey, with a greenish tinge, siltstone is bounded by black chert that is crosscut by py mineralized quartz veinlets and stockwork. The siltstone commonly has a porphyritic texture, white subhedral specks. Trace py occurs as fine grained disseminations. 1% py occurs as stringers and along fracture surfaces within the siltstone and as disseminated blebs in the quartz veinlets.
104.00	107.00	Intermediate Lithic Tuff C1-C2, S1, P1, 1% py Dark grey, blocky and speckled with weakly altered py crystals and milky white fine grained subhedral crystals. The unit is weakly to moderately calcareous. Pyrite also occurs as specks along fractures surfaces. The unit is similar to the Intermediate Lithic Tuff in hole 1683, but not greenish in colour.
107.00	135.50	Graphitic Argillite 70:30 Siltstone (Steel Formation), C1-C2, S1, P0-P1, 1% py, tr Lm Black blocky fine grained graphitic argillite is interbedded with medium to dark grey siltstone. The siltstone occasionally has a porphyritic texture. 1% weakly oxidized fine grained pyrite is disseminated within the siltstone. Weakly limonite altered quartz carbonate veinlets cross cut the unit. Minor barrite beds occur within the unit. Between 116 and 120 metres the porphyritic specks are altered yellow. At 130 to 132 metres depth 3% Altered Quartz Monzonite was encountered. The interval is predominately graphitic argillite from 132 to 135.5 metres.
135.50	138.00	Altered Quartz Monzonite C1, S2, P1, 3% py, tr limonite Medium to light grey/green altered quartz monzonite contains 3% disseminated blebs of fresh to weakly altered py. The upper 0.5 metres of the unit is limonite altered. The groundmass is moderately calcareous and the feldspars have been altered to clay.
138.00	141.00	Graphitic Argillite C1, S1, P1, 2% py, tr Lm Blocky, black graphitic argillite is crosscut with tr thin quartz carbonate veinlets. 3% py is disseminated adjacent to the veinlets.

From	To	Geological Log
141.00	142.50	<p>Greywacke C1, S1, P1, 2% py, tr Lm Dark grey/brown to light grey matrix supported greywacke contains subangular clasts of black chert, quartz chips and shale like clasts and grades into sandstone. 2% pyrite has been introduced to the unit as stringers and disseminated fine grained crystals. Some of the clasts and the light grey matrix is slightly limonitic.</p>
142.50	150.00	<p>Graphitic Argillite 60:30:10 SST:CH, C1, S1, P1, 1% py, tr Lm Black graphitic argillite is interbedded with light to medium grey siltstone and chert. Mineralized quartz veinlets crosscut the chert. The siltstone is partially limonite altered and contains stringers of weakly oxidized py. Thin veinlets crosscut the siltstone and argillite also.</p>
150.00	174.00	<p>Siltstone (Steel Formation) C1-C2, S1, P0-P1, 1% py, tr Lm Medium to light grey siltstone is interbedded with graphitic argillite. At 164 to 168 metres depth 1% limonitic quartz monzonite chips are present with in a wider band of graphitic argillite. Trace oxidized barite (psilomelane) is encountered at 150 to 152 metres depth and again at 158 to 160 metres. Pyrite occurs as fine grained disseminated crystals which have been weakly oxidized. Trace to 1% py occurs throughout the interval, except at 154 to 158 metres were 2% py is disseminated within the siltstone.</p>
174.00	180.00	<p>Graphitic Argillite C1, S1, P0-P1, 1% py Black graphitic fissile argillite is crosscut with quartz carbonate veinlets/stockwork and py stringers. Pyrite also occurs at the edges of the veinlets.</p>
180.00	219.00	<p>Siltstone (Steel Formation) 95:5 Argillite, C1, S1, P1, 2% py, tr Lm Light to medium grey siltstone is weakly calcareous and contains 1% fine grained disseminated py in its groundmass. 2% weakly oxidized py occurs as stringers along fractures surfaces between 202 and 219 metres. Trace limonite occurs along fractures surfaces. Black argillite is interbedded the siltstone. Quartz carbonates veinlets and stockwork occur throughout the interval.</p>
219.00	228.00	<p>Graphitic Argillite 45:40:15, SST:CH, C1-C2, S1, P0-P1, 2% py, tr Lm Blocky black graphitic argillite is interbedded with Siltstone (Steel Formation) and chert. Quartz carbonate veinlets and stockwork occur within the chert from 219 to 222 metres and 224 to 226 metres. 2% py occurs as stringers within the chert and as fine grained disseminated crystals in the siltstone. Trace limonite occurs on quartz carbonate chips.</p>

*** END OF HOLE *** 228.00

RC Drillhole RC97-1684
 Sample Log

11/3/97

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1684	0	2	0.03		P4		DRY
RC97-1684	2	4	0.02		P4		DRY
RC97-1684	4	6	0.04		P4	1	DRY
RC97-1684	6	8	0.03		P4	tr	DRY
RC97-1684	8	10	0.03		P4	1	DRY
RC97-1684	10	12	0.03		P4	1	DRY
RC97-1684	12	14	<0.02		P4	tr	DRY
RC97-1684	14	16	0.03		P4	tr	DRY
RC97-1684	16	18	0.05		P4	1	DRY
RC97-1684	18	20	0.02		P4		DRY
RC97-1684	20	22	0.02		P4		DRY
RC97-1684	22	24	0.03		P4	tr	DRY
RC97-1684	24	26	0.04		P4		DRY
RC97-1684	26	28	0.02		P4		DRY
RC97-1684	28	30	0.02		P4	tr	DRY
RC97-1684	30	32	0.03		P4		DRY
RC97-1684	32	34	0.03		P3	tr	DRY
RC97-1684	34	36	0.02		P3	tr	DRY
RC97-1684	36	38	0.02		P3	1	DRY
RC97-1684	38	40	0.03		P3	1	DRY
RC97-1684	40	42	0.06		P2	tr	DRY
RC97-1684	42	44	0.03		P2	tr	DRY
RC97-1684	44	46	0.14		P2	tr	DRY
RC97-1684	46	48	0.08		P2	tr	DRY
RC97-1684	48	50	0.03		P1	tr	DRY
RC97-1684	50	52	<0.02		P2	tr	DRY
RC97-1684	52	54	<0.02		P2	1	DRY
RC97-1684	54	56	<0.02		P0	tr	DRY
RC97-1684	56	58	<0.02				DRY
RC97-1684	58	60	<0.02				DRY
RC97-1684	60	62	<0.02				DRY
RC97-1684	62	64	<0.02				DRY
RC97-1684	64	66	0.07				DRY
RC97-1684	66	68	<0.02				DRY
RC97-1684	68	70	<0.02				DRY
RC97-1684	70	72	<0.02				DRY
RC97-1684	72	74	<0.02		P0	tr	DRY
RC97-1684	74	76	<0.02		P0	tr	DRY
RC97-1684	76	78	0.02		P1	tr	DRY
RC97-1684	78	80	0.03		P0	tr	WET
RC97-1684	80	82	0.03		P1	tr	WET
RC97-1684	82	84	0.09		P1	1	WET
RC97-1684	84	86	<0.02		P1	tr	WET
RC97-1684	86	88	0.06		P1	1	WET
RC97-1684	88	90	0.05		P0	tr	WET
RC97-1684	90	92	0.06				WET

RC Drillhole RC97-1684
 Sample Log

11/3/97

RC97-1684	92	94	0.04				WET
RC97-1684	94	96	0.05				WET
RC97-1684	96	98	0.19	P0		1	WET
RC97-1684	98	100	<0.02	P0		1	WET
RC97-1684	100	102	0.02	P0		1	WET
RC97-1684	102	104	0.04	P0		2	WET
RC97-1684	104	106	<0.02	P0		2	WET
RC97-1684	106	108	0.04	P1		1	WET
RC97-1684	108	110	<0.02	P0		1	WET
RC97-1684	110	112	0.15	P1		1	WET
RC97-1684	112	114	0.06	P1		1	WET
RC97-1684	114	116	<0.02	P1	tr		WET
RC97-1684	116	118	<0.02	P0		1	WET
RC97-1684	118	120	0.03	P0	tr		WET
RC97-1684	120	122	<0.02	P1	tr		WET
RC97-1684	122	124	<0.02	P1		1	WET
RC97-1684	124	126	<0.02	P1		2	WET
RC97-1684	126	128	<0.02	P1		1	WET
RC97-1684	128	130	0.40	P1		1	WET
RC97-1684	130	132	0.28	P1	tr		WET
RC97-1684	132	134	<0.02	P0		1	WET
RC97-1684	134	136	0.42	P3		3	WET
RC97-1684	136	138	3.61	P1		1	WET
RC97-1684	138	140	0.03	P0		2	WET
RC97-1684	140	142	0.33	P1		1	WET
RC97-1684	142	144	0.13	P1	tr		WET
RC97-1684	144	146	0.10		0	1	WET
RC97-1684	146	148	0.43	P1		1	WET
RC97-1684	148	150	0.60	P1		1	WET
RC97-1684	150	152	0.09	P1		1	WET
RC97-1684	152	154	0.18	P0		2	WET
RC97-1684	154	156	0.51	P0		2	WET
RC97-1684	156	158	0.43	P0	tr		WET
RC97-1684	158	160	0.07	P0			WET
RC97-1684	160	162	0.12			1	WET
RC97-1684	162	164	0.03	P0		1	WET
RC97-1684	164	166	0.65	P1	tr		WET
RC97-1684	166	168	0.05	P1		1	WET
RC97-1684	168	170	0.08	P1			WET
RC97-1684	170	172	0.04	P0	tr		WET
RC97-1684	172	174	0.05	P0		3	WET
RC97-1684	174	176	0.03	P1			WET
RC97-1684	176	178	0.1	P0	tr		WET
RC97-1684	178	180	0.08	P1	tr		WET
RC97-1684	180	182	0.06	P0		1	WET
RC97-1684	182	184	0.18	P0		1	WET
RC97-1684	184	186	0.04	P0	tr		WET
RC97-1684	186	188	0.02	P0	tr		WET

RC Drillhole RC97-1684
Sample Log

11/3/97

RC97-1684	188	190	0.02		P1	1	WET
RC97-1684	190	192	0.03		P0	1	WET
RC97-1684	192	194	0.65		P0	2	WET
RC97-1684	194	196	0.27		P0	2	WET
RC97-1684	196	198	0.62		P0	2	WET
RC97-1684	198	200	0.03		P0	2	WET
RC97-1684	200	202	0.02		P0	1	WET
RC97-1684	202	204	<0.02		P1	1	WET
RC97-1684	204	206	0.04		P1	1	WET
RC97-1684	206	208	0.06		P1	1	WET
RC97-1684	208	210	0.03		P1	2	WET
RC97-1684	210	212	0.62		P1	1	WET
RC97-1684	212	214	0.15		P1	2	WET
RC97-1684	214	216	0.09		P1	2	WET
RC97-1684	216	218	0.11		P1	2	WET
RC97-1684	218	220	0.21		P1	2	WET
RC97-1684	220	222	0.89		P0	2	WET
RC97-1684	222	224	0.04		P0	1	WET
RC97-1684	224	226	0.04		P1	1	WET
RC97-1684	226	228	0.04		P0	3	WET

HOLE NO: RC97-1734	SECTION: 17900	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : PACIFIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	108.00	
Drill contractor:	MIDNIGHT SUN DRILLING		
Drill rig:	SCHRAMM		
Date started:	7/4/97		
Date finished:	7/4/97		
Logged by:	L. JAMRICH		
Relogged by:			
Sampled by:	S.ERDMAN		

*** COLLAR COORDINATES AND RL ***
 SURVEYED 20354.00mN 17899.20mE 840.70RL

Pre-collar depth: 100 Final depth: 108.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 8M
 Comments: H2O@6-8M, 18-20M, 34-36M, 52-56M, 72-74M

Material left in hole: NONE
 Base of complete oxidation: 34
 Top of fresh rock: >EOH
 Water first encountered: 78
 Water inflow estimate:

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-65.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	8.50	CHERT PEBBLE CONGLOMERATE
8.50	10.00	SILTSTONE (EARN GROUP)
10.00	15.50	GREYWACKE
15.50	24.00	CHERT PEBBLE CONGLOMERATE
24.00	61.50	SILTSTONE (EARN GROUP)
61.50	92.50	CHERT PEBBLE CONGLOMERATE
92.50	95.00	ALTERED QUARTZ MONZONITE
95.00	97.00	CHERT PEBBLE CONGLOMERATE
97.00	98.50	CHERT PEBBLE CONGLOMERATE
98.50	103.00	ALTERED QUARTZ MONZONITE
103.00	108.00	GRAPHITIC ARGILLITE
108.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	8.50	<p>Chert Pebble Conglomerate C0,S0,P4,2%Lm Multi-coloured: light grey chert, dark grey-black shale, greywacke and orange/brown to grey siliceous matrix. Limonite occurs on fracture surfaces of all different conglomerate pieces. The matrix has some pieces that are also pervasively limonite; feldspars altered to clay that has been stained orange from oxidation. The matrix also has some pitting. Pyrite is completely oxidized to manganese oxide; however, cubic shape is visible on some chips with also some fine grained stringers. There is some P1 pyrite (trace) on a chert chip along fracture surface from 2-4m; also 2-4m has a small blood-red bleb that is very soft (possible Sb oxide?) on a matrix piece.</p>
8.50	10.00	<p>Siltstone (Earn Group) C0,S1,P4,1% Lm Dark grey siltstone. Limonite only on fracture surfaces and orange-reddish orange. Siltstone (Earn Group) is soft enough to scrape easily with twizzers. Very small blebs of pyrite on fracture surfaces that is completely oxidized to manganese oxide. Very small veinlets of quartz on a few chips.</p>
10.00	15.50	<p>Greywacke C0,S1,tr. Lm Dark Grey greywacke. Limonite occurs only on fracture surfaces and as staining on feldspars. Small feldspars have been completely altered to clay and stained by limonite; there are a few feldspars that are only altered around the rim. Cannot tell if there is any disseminated pyrite that has been oxidized to manganese oxide but there is nothing that has a cubic shape. Quartz stockwork occurs in about a 1/3 of the chips and there also seems to be a few quartz eyes that are larger than most eyes, so possibly secondary.</p>
15.50	24.00	<p>Chert Pebble Conglomerate C0,S3,P4,tr. Lm Same colour rock and colour description as 0-8.5m only the chert is also black. This interval has less limonite, but still is contained to fracture surfaces mostly; feldspars are also completely altered to clay and stained. Pyrite is also oxidized to manganese oxide but not in cubic form. There is also fresh, disseminated P0 pyrite in the chips of black chert. This interval has more silica with up to 50% in 20-22m. Chips show quartz stockworking but also many chips are just completely quartz which possibly could be a large quartz vein or may also be a large primary quartz clast.</p>
24.00	61.50	<p>Siltstone (Earn Group) C0,S1,P0,tr.-1%,tr Py, tr. Sb,tr. Lm Medium to Dark grey siltstone. Limonite on fracture surfaces and some pervasively coated chips 26-33m and again at 58-60m. From 34-58m the only limonite seen is on the quartz that is present. Sb oxide seen on few chip 28-30m. No pyrite seen from 24-30m unless completely very fine grained, disseminated and completely oxidized black. From 30-40m and 46-61.5m pyrite is dominantly fine grained and disseminated; at 40m the pyrite changes to very fine grained stringers and fine to moderate grained blebs of pyrite. 44-46m has a few grains that have fine grained disseminated pyrite running throughout. Throughout the entire interval quartz stockworking is evident. It is stronger from 30-48m and again at 56-61.5m</p>
61.50	92.50	<p>Chert Pebble Conglomerate C1,S2,P4,tr.Sb,tr.-3% Lm Multi-colored Chert Pebble Conglomerate as above. Limonite is a pervasive coating and up to 3% from 62-66m. At 84-88m indications of a fault zone and limonite is pervasive throughout, creating a limonite altered chert pebble conglomerate. Feldspars are altered to clay in areas with limonite but other intervals the feldspars are fresh or weakly altered to clay. Pyrite is mostly completely oxidized to manganese oxide in small blebs; from 88-92m pyrite is P0-P1 and fine grained and disseminated in the shale pieces of the conglomerate. Stibnite is present but oxidized blood-red in intervals 66-68m,70-74m. A few small calcit veinlets occur on certain matrix chips. Quartz stockworking is evident within the siliceous matrix chips and from 74-84m quartz is dominantly throughout interval (unknown large primary clast or large quartz vein).</p>

From	To	Geological Log
92.50	95.00	<p>Altered Quartz Monzonite C1,S1,P2,1% Py,tr. Sb,tr. Lm Tannish coloured Altered Quartz Monzonite. Limonite occurs on a few fracture surfaces only. Feldspars are moderately to highly altered to clay, where they are harder but still can be chipped out and also so soft it falls out of the chip with a touch. Biotite is completely altered to white mica. Stibnite occurs as oxidized blood-red specks. Pyrite is mostly half oxidized to manganese oxide and half is still tanished but recognizable. Pyrite is fine grained blebs that are pitted. Small amount of calcareous material around a stibnite grain and a few stringers. Small quartz stringers occur in a few chips.</p>
95.00	97.00	<p>Chert Pebble Conglomerate C1,S1,P0,1% Py,tr. Sb Mostly light grey to black. Appears to be mostly matrix and chert chips. Feldspars are slightly altered to clay or sericite but still quite hard. Stibnite is oxidized and occurs as tiny blood-red spots. Pyrite is mostly fresh, fine grained and disseminated in the chert chips; and fine grained blebs that are slightly tarnished on the matrix pieces. There is a slight fizz on the some matrix pieces as small veinlets. There are also small quartz stringers and possibly a few quartz eyes in the matrix material.</p>
97.00	98.50	<p>Chert Pebble Conglomerate C1,S1,P0,2% Py,tr. Sb Same as above only bit more pyrite in both the chert and the matrix material.</p>
98.50	103.00	<p>Altered Quartz Monzonite C2,S1-S2,P3,1% Py, tr. Sb Pinkish hue to Altered Quartz Monzonite. Feldspars are moderately altered to sericite or clay and biotite is completely altered to white mica. Few specks of Sb that has been oxidized blood-red in 100-102m; also small amount of apple-green mariposite from 100-102m. Most pyrite is in small blebs and completely oxidized to manganese oxide. Some pyrite is in coarser, larger, blebs and P1-P2; seems to be formed on secondary quartz.</p>
103.00	108.00	<p>Graphitic Argillite C0,S2,P0,1% Py,tr. Lm Medium grey to very dark grey. Limonite occurs only on the quartz as a slight staining. Chips hard enough need to hit quite hard to break. Pyrite is dominantly fine grained and disseminated. Some pyrite in coarser grained blebs and fracture faces.</p>

*** END OF HOLE *** 108.00

HOLE NO: RC97-1736 SECTION: 17125 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE : MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 84.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	8/4/97
Date finished:	8/4/97
Logged by:	A. LAUDRUM
Relogged by:	
Sampled by:	DYLAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 21159.20mN 17126.50mE 780.70RL

Pre-collar depth: 90 Final depth: 90.00
 Purpose of hole: EXPLORATION
 Hole status: SHORTED 6 M
 Comments: NO SAMPLE FROM 73-74M, RODS STUCK

Material left in hole: NONE
 Base of complete oxidation 31
 Top of fresh rock: >EOH
 Water first encountered: 73
 Water inflow estimate: <3 GAL/MIN

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	6.00	COLLUVIUM
6.00	8.50	ARGILLITE
8.50	12.00	LIMONITIC ALTERED QUARTZ MONZONITE
12.00	16.00	ARGILLITE
16.00	18.00	LIMONITIC ALTERED QUARTZ MONZONITE
18.00	22.00	ARGILLITE
22.00	30.00	LIMONITIC QUARTZ MONZONITE
30.00	36.00	LIMONITIC ALTERED QUARTZ MONZONITE
36.00	49.00	GRAPHITIC ARGILLITE
49.00	54.00	GRAPHITIC SHALE
54.00	60.00	LIMONITIC QUARTZ MONZONITE
60.00	65.50	ARGILLITE
65.50	70.00	GRAPHITIC ARGILLITE
70.00	84.00	LIMONITIC ALTERED QUARTZ MONZONITE
84.00		END OF HOLE

Checked and signed: A. Laudrum Date: Sept 21/97

From	To	Geological Log
0.00	6.00	Colluvium
6.00	8.50	Argillite C0, S3, tr Lm Black cherty argillite. Cross cutting quartz veinlets create a breccia texture. No reaction to HCl. Trace limonite occurs on <1% of chips as specks otherwise the limonite does not stain the argillite. Clots of grey clay are present. Trace fine grained fresh py is disseminated in the argillite.
8.50	12.00	Limonitic Altered Quartz Monzonite C0, S1, P3, 2% py, tr sb, 6% Lm Medium orange/brown limonite altered quartz monzonite with a couple of thin bands of argillite. The pyrite has been strongly oxidized to Fe and Mg oxides, with only tarnished inner cores remaining. The Fe and Mg oxide occurs as blebs and specks that are 1 to 2 mm in size, and as smears along fractures surfaces. Fine grain to medium grain pyrite pseudomorphs (P4) are also disseminated throughout the interval. Quartz chips and quartz eyes occur within the limonite altered quartz monzonite. The argillite contains quartz stockwork.
12.00	16.00	Argillite C0, S1, P4, tr py, 1% Lm Black argillite with limonite along fractures surfaces and as occasional specks within the matrix of the argillite. Trace strongly oxidized py occurs along the fractures surfaces, however most of the py has been intensely oxidized to Fe and Mg oxides along the fractures surfaces. Quartz stockwork occurs in the between 12 and 14 metres depth. Trace kermesite occurs on fractures surfaces.
16.00	18.00	Limonitic Altered Quartz Monzonite C1, S1, P3, 1%py, 3% Lm Medium to light orange brown limonite altered quartz monzonite with moderately pervasive limonite alteration. Trace Fe and Mg oxide occurs along fractures surfaces. The unit is moderately bleached and the feldspars have been argillically altered to clay. 1% py occurs as moderately to strongly oxidized disseminated blebs and as moderately oxidized fine grained disseminated specks. A thin band of argillite occurs within the unit, 2% argillite chips.
18.00	22.00	Argillite C1, S2, P2-P3, tr py, tr Lm Black argillite that is moderately silicified with quartz stockwork. Trace weakly oxidized py occurs as mg cubes along the edges of the quartz veinlets. Trace moderately to strongly oxidized py is disseminated within the argillite, and associated with limonite specks.
22.00	30.00	Limonitic Quartz Monzonite C1-C2, S1, P1-P2, 1% py, 3% Lm Mottled orange/green/black limonite quartz monzonite that has strong pervasive limonite atln, except from 24 to 26 metres where it is moderately pervasive limonite altered. 15% biotite occurs within the quartz monzonite. Occasional chips of bleached atld quartz monzonite occur from 24 metres down hole - unit is interbedded with thin bands of altered quartz monzonite (<5%). Quartz stockwork occurs within the limonite quartz monzonite from 26 to 28 metres. Trace py occurs as fine grained disseminated specks in the altered quartz monzonite beds.
30.00	36.00	Limonitic Altered Quartz Monzonite 80:20 Altered Quartz Monzonite, C2, S1, P1, 1% py, 3% Lm Light to medium orange brown limonite altered quartz monzonite that has been weakly pervasively limonite altered. The unit is bleached and weakly silicified with quartz flooding and contains 5% quartz chips. 1% py is disseminated within and has been only weakly oxidized. The py is not evenly distributed throughout the unit but rather occurs within 10% of the chips.
36.00	49.00	Graphitic Argillite C0-C1, S1, P1-P2, tr py, tr Lm Black graphitic argillite with 2% Limonitic Altered Quartz Monzonite between 42 and 49 metres depth. Trace limonite occurs as tiny blebs associated with quartz veinlets within the argillite. Trace narrow quartz veins cross cut the argillite. Trace blebs of tarnished py are smeared along exposed veinlets surfaces. Trace fresh fine grained disseminated py occurs between 42 and 46 metres. The upper two metres of the unit does not react to HCl while the remainder of the unit reacts weakly.
49.00	54.00	Graphitic Shale C2, S1, P1-P3, tr py, tr Lm Dark grey graphitic shale with a narrow vein of limonite altered quartz carbonate that contains weakly oxidized disseminated py around 51 metres. Trace limonite occurs along beds and in cross cutting fractures of quartz carbonate. Trace blebs of moderately oxidized occur within the limonite altered fractures. The shale is moderately to strongly calcareous.

From	To	Geological Log
54.00	60.00	<p>Limonitic Quartz Monzonite C1, S1, P1, 3% py, 2% Lm Light orange/brown to buff coloured limonite atld quartz monzonite with 8% weakly to moderately altered biotite crystals. Weakly oxidized py occurs as blebs and fine grained disseminated throughout the unit. The limonite alteration is weakly pervasive. Intrusive textures have not been overprinted.</p>
60.00	65.50	<p>Argillite C1, S1, P1, tr py, tr Lm Black silicious argillite with tr limonite alteration and moderately oxidized py associated with quartz stockwork. 10% quartz stockwork and vnits occur in the interval. No reaction to HCl.</p>
65.50	70.00	<p>Graphitic Argillite C2, S1, P1, tr py, 1% sb, 1% Lm Black graphitic carbonitized argillite with 1% limonite along fractures surfaces and within quartz carbonate veinlets. Narrow quartz carbonate veinlets cross cut the argillite. Trace Fe and Mg oxides with cores of py are smeared along quartz carbonate covered fractures surfaces.</p>
70.00	84.00	<p>Limonitic Altered Quartz Monzonite 65:20:15 LAQM:ARG:CH, C0-C1, S1-S2, P1-P2, 2% py, tr sb, 1% Lm Light orange/brown Limonitic Altered Quartz Monzonite with a red tinge is interbedded with cherty argillite. The Limonitic Altered Quartz Monzonite makes up 95% of the unit below 80 metres and less than 50% between 70 and 80 metres depth. The argillite is black is brecciated with white to light grey chert. Also contains chips of chert and secondary quartz. The Limonitic Altered Quartz Monzonite reacts moderately to HCl after a 5 seconds delay, it is moderately pervasively calcareous. 1% fine grained weakly oxidized py is disseminated within the Limonitic Altered Quartz Monzonite. The density of the disseminated py decreases downhole. Trace mg spacely disseminated py in the Limonitic Altered Quartz Monzonite is moderately oxidized, coated with Fe and Mg oxides. Chips of massive stibnite occur at the top of the interval. Trace graphitic argillite also occurs at the top of the interval. Limonite alteration in the argillite is restricted to narrow veinlets. In the argillite, only trace py occurs along the veinlets and disseminated near veinlets - it has been altered to limonite. Qtz stockwork makes up 5% of the chips between 74 and 80 metres depth. Sparce moderately to strongly oxidized cubic py crystals occur in the quartz chips.</p>

*** END OF HOLE *** 90.00

RC Drillhole RC97-1736
 Sample Log

9/21/97

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1736	0	2	0.22				WFT
RC97-1736	2	4	0.09				WET
RC97-1736	4	6	0.08				WET
RC97-1736	6	8	0.06		P1	tr	WET
RC97-1736	8	10	0.07		P3	2	WET
RC97-1736	10	12	0.17		P4		WET
RC97-1736	12	14	0.02		P3	tr	DRY
RC97-1736	14	16	0.04		P4		DRY
RC97-1736	16	18	0.04		P3	1	DRY
RC97-1736	18	20	0.06		P2	tr	DRY
RC97-1736	20	22	0.04		P3	1	DRY
RC97-1736	22	24	0.01		P3	1	DRY
RC97-1736	24	26	0.02		P3	1	DRY
RC97-1736	26	28	0.04		P1	1	DRY
RC97-1736	28	30	0.04		P1	1	DRY
RC97-1736	30	32	0.10		P1	1	DRY
RC97-1736	32	34	0.05		P1	1	DRY
RC97-1736	34	36	0.13		P1	1	DRY
RC97-1736	36	38	0.10		P2	tr	DRY
RC97-1736	38	40	0.07		P2	tr	DRY
RC97-1736	40	42	0.04		P0	tr	DRY
RC97-1736	42	44	0.04		P2	1	DRY
RC97-1736	44	46	0.01		P2	tr	DRY
RC97-1736	46	48	0.01		P1	tr	DRY
RC97-1736	48	50	0.01		P1	tr	DRY
RC97-1736	50	52	0.03		P1	tr	DRY
RC97-1736	52	54	0.07		P1	tr	DRY
RC97-1736	54	56	0.03		P1	1	DRY
RC97-1736	56	58	0.06		P1	1	DRY
RC97-1736	58	60	0.04		P2	tr	DRY
RC97-1736	60	62	0.02		P1	tr	DRY
RC97-1736	62	64	0.04		P2	1	DRY
RC97-1736	64	66	0.10		P2	tr	DRY
RC97-1736	66	68	0.15		P2	tr	DRY
RC97-1736	68	70	0.10		P2	tr	DRY
RC97-1736	70	72	0.13		P1	tr	DRY
RC97-1736	72	74	0.58		P1	1	WET
RC97-1736	74	76	2.12		P1	1	WET
RC97-1736	76	78	0.73		P1	1	WET
RC97-1736	78	80	0.17		P2	tr	WET
RC97-1736	80	82	0.12		P1	1	WET
RC97-1736	82	84	<0.02		P1	1	WET

HOLE NO: RC97-1737

SECTION: 17125

GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CONVENTIONAL RC	0.00	14.00
Drill contractor:	MIDNIGHT SUN	
Drill rig:	SCHRAMM	
Date started:	8/4/97	
Date finished:	8/4/97	
Logged by:	A. LAUDRUM	
Relogged by:		
Sampled by:	STEVE	
CENTRE SAMPLING RC	14.00	80.00 5.25"
Drill contractor:	MIDNIGHT SUN	
Drill rig:	SCHRAMM	
Date started:	8/4/97	
Date finished:	8/4/97	
Logged by:	A. LAUDRUM	
Relogged by:		
Sampled by:	STEVE	

*** COLLAR COORDINATES AND RL ***
 SURVEYED 21206.60mN 17124.20mE 785.90RL

Pre-collar depth: 70 Final depth: 80.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 10M
 Comments: WATER ENCOUNTERED AT 70M

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

Material left in hole: NONE
 Base of complete oxidation: 27
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SUMMARY LOG ***

0.00	2.00	SHALE
2.00	4.00	SILTSTONE (STEEL FORMATION)
4.00	9.50	ARGILLITE
9.50	14.50	LIMONITIC ALTERED QUARTZ MONZONITE
14.50	17.50	ARGILLITE
17.50	25.00	LIMONITIC QUARTZ MONZONITE
25.00	26.50	GRAPHITIC ARGILLITE
26.50	28.00	LIMONITIC ALTERED QUARTZ MONZONITE
28.00	36.50	ARGILLITE
36.50	42.00	LIMONITIC ALTERED QUARTZ MONZONITE
42.00	46.50	ARGILLITE
46.50	63.50	LIMONITIC ALTERED QUARTZ MONZONITE
63.50	64.00	ARGILLITE
64.00	80.00	LIMONITIC ALTERED QUARTZ MONZONITE
80.00		END OF HOLE

*** SIGNIFICANT ASSAYS ***

From	To	Width

Checked and signed:

A. Laudrum

Date: Sept 21/97

From	To	Geological Log
0.00	2.00	Shale C0, S1, P4, 2% Lm Dark grey shale with trace Limonitic Altered Quartz Monzonite and Siltstone (Steel Formation) interbeds. Minor limonite occurs along fractures surfaces.
2.00	4.00	Siltstone (Steel Formation) C0, S1, P4, 2% Lm Tan Siltstone (Steel Formation) has limonite alteration along fracture surfaces and as disseminated blebs associated with cubic vugs. The siltstone is contains quartz vnits.
4.00	9.50	Argillite 75:25 Shale, C0, S1, P4, 1% Lm Dark grey argillite is interbedded with Medium grey shale. Limonite occurs along bedding in the shale and on fractures in the argillite. Trace Fe and Mg oxides occur along fracture surfaces.
9.50	14.50	Limonitic Altered Quartz Monzonite C2, S1, P3-P4, tr py, 6% Lm Medium orange brown limonite quartz monzonite has undergone pervasive limonite alteration. Fine grained disseminated py is strongly oxidized. Tr medium grained disseminated py cubes have been intensely oxidized and are recognizable as relict vugs. Pyrite along fractures surfaces has been intensely oxidized to Fe and Mg oxides.
14.50	17.50	Argillite 75:25 Chert, C1, S2, P4, 2% Lm Black brecciated argillite is interbedded with chert and quartz stockwork. Limonite occurs along fractures surfaces.
17.50	25.00	Limonitic Quartz Monzonite 70:20 Limonitic Altered Quartz Monzonite, C2, S1, P2-P3, tr py, 4% Lm Limonitic Quartz Monzonite is bounded at the upper and lower contacts with increased Limonitic Altered Quartz Monzonite. The intensity of limonite alteration in the Limonitic Quartz Monzonite increases with the amount of Limonitic Altered Quartz Monzonite in the interval. Trace moderately oxidized py occurs in the lesser altered Limonitic Quartz Monzonite as a partial replacement of biotite. Relict biotite psedomorphs remain in the Limonitic Altered Quartz Monzonite as chlorite flacks and trace moderately to strongly oxidized py.
25.00	26.50	Graphitic Argillite 60:40 Chert, C1, S2, P4, tr Lm Black graphitic argillite is interbedded with black chert. Quartz stockwork crosscuts the chert and argillite. Relict py xstal vugs are associated with the quartz stockwork.
26.50	28.00	Limonitic Altered Quartz Monzonite C2, S1, P3, 1% py, 5% Lm Light orange brown limonite altered quartz monzonite contains 1% disseminated blebs of strongly oxidized py. The unit is moderately calcareous.
28.00	36.50	Argillite C3, S2, P4, tr py, tr Lm Black argillite is moderately silicified with 20% quartz carbonate stockwork. Trace limonite, and Mg Fe oxides occur within the first four metres of the interval. The remaining interval is barren of sulphides.
36.50	42.00	Limonitic Altered Quartz Monzonite C1, S1, P2, 4% py, 3% Lm Pale orange green limonite altered quartz monzonite contains 4% moderately oxidized pyrite. The pyrite has replaced biotite crystals and is disseminated within a pervasive argillically altered matrix.
42.00	46.50	Argillite C1, S2, P3, tr py, tr Lm Black argillite has been silicified and brecciated. It contains 20% quartz carbonate veinlets. Trace limonite alteration is associated with the veinlets.
46.50	63.50	Limonitic Altered Quartz Monzonite C1-C2, S1, P1-P3, 2% py, 4% Lm Medium orange brown limonite quartz monzonite has been weakly flooded with silica and contains 2% disseminated py. Feldspars have been altered to clay. The limonite alteration is weakly pervasive in 50% of the chips and moderately pervasive in the remaining 50%. The pyrite is stongly oxidized in the chips which have moderate limonite and weak to moderate in the less limonite altered chips. Narrow beds of argillite occur at 54 metres and 59 metres depth.

From	To	Geological Log
63.50	64.00	Argillite C1, S2, P2, tr py, tr Lm Black argillite has disseminated blebs of limonite associated with quartz veinlets. Trace tarnished pyrite occurs at the edges of the vnlt.
64.00	80.00	Limonitic Altered Quartz Monzonite C1-C2, S1, P1, 1% py, 3% Lm Pale orange to salmon pink Limonitic Altered Quartz Monzonite has had its feldspars altered to clay and it is weakly to moderately calcareous. Weakly oxidized fine grained pyrite is disseminated throughout the unit. Quartz carbonate chips and veinlets are present throughout the interval. An increase in the amount of clay material from 68 to 70 metres depth and the occurrence of water at this interval indicates that a fault occurs here.

*** END OF HOLE *** 80.00

RC Drillhole RC97-1737
Sample Log

11/3/97

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1737	0	2	0.08		P4		WET
RC97-1737	2	4	0.04		P4		DRY
RC97-1737	4	6	0.06		P4		DRY
RC97-1737	6	8	0.09		P4		DRY
RC97-1737	8	10	0.13		P4		DRY
RC97-1737	10	12	0.08		P4		DRY
RC97-1737	12	14	0.02		P4	tr	DRY
RC97-1737	14	16	0.04		P3	tr	DRY
RC97-1737	16	18	0.05		P3	tr	DRY
RC97-1737	18	20	0.02		P3	tr	DRY
RC97-1737	20	22	0.02		P3	tr	DRY
RC97-1737	22	24	0.05		P2	tr	DRY
RC97-1737	24	26	0.02		P3	1	DRY
RC97-1737	26	28	0.11		P3	1	DRY
RC97-1737	28	30	0.03		P4		DRY
RC97-1737	30	32	0.02		P4		DRY
RC97-1737	32	34	0.05		P4		DRY
RC97-1737	34	36	0.06				DRY
RC97-1737	36	38	0.12		P2	4	DRY
RC97-1737	38	40	0.07		P2	4	DRY
RC97-1737	40	42	0.54		P2	4	DRY
RC97-1737	42	44	0.32		P3	tr	DRY
RC97-1737	44	46	0.30		P3	tr	DRY
RC97-1737	46	48	0.09		P3	2	DRY
RC97-1737	48	50	0.13		P2	2	DRY
RC97-1737	50	52	0.10		P2	2	DRY
RC97-1737	52	54	0.07		P3	2	DRY
RC97-1737	54	56	0.09		P2	2	DRY
RC97-1737	56	58	0.13		P1	2	DRY
RC97-1737	58	60	0.14		P1	2	DRY
RC97-1737	60	62	0.35		P1	2	DRY
RC97-1737	62	64	0.77		P1	1	DRY
RC97-1737	64	66	0.17		P1	tr	DRY
RC97-1737	66	68	0.47		P1	tr	DRY
RC97-1737	68	70	0.37		P1	1	WET
RC97-1737	70	72	0.19		P2	1	DRY
RC97-1737	72	74	0.13		P1	1	DRY
RC97-1737	74	76	0.11		P1	tr	DRY
RC97-1737	76	78	0.21		P1	1	DRY
RC97-1737	78	80	0.04		P1	1	DRY

HOLE NO: RC97-1738 SECTION: 17125 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CENTRE SAMPLING RC	0.00 60.00 5.25"
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	8/4/97
Date finished:	9/4/97
Logged by:	A. LAUDRUM
Relogged by:	
Sampled by:	STEVE

*** COLLAR COORDINATES AND RL ***
 SURVEYED 21255.00mN 17126.20mE 793.80RL

Pre-collar depth: 50 Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 10M
 Comments: ENDED IN LAQM/AQM

Material left in hole: NONE
 Base of complete oxidation 50
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	4.00	LIMONITIC ALTERED QUARTZ MONZONITE
4.00	8.00	ALTERED QUARTZ MONZONITE
8.00	11.00	GRAPHITIC SHALE
11.00	14.00	LIMONITIC ALTERED QUARTZ MONZONITE
14.00	24.00	ARGILLITE
24.00	56.00	LIMONITIC ALTERED QUARTZ MONZONITE
56.00	60.00	ARGILLITE
60.00		END OF HOLE

Checked and signed:

A. Laudrum

Date: Sept 21/97

From	To	Geological Log
0.00	2.00	Colluvium Fill
2.00	4.00	Limonitic Altered Quartz Monzonite C0, S1, P4, tr py, 5% Lm Medium orange brown limonite quartz monzonite with trace Fe and Mg oxide along fracture surfaces. Trace strongly oxidized py is disseminated within the unit. Non-calcareous.
4.00	8.00	Limonitic Altered Quartz Monzonite C0, S2, P3-P4 tr py, tr Lm Pale white altered quartz monzonite with 5% moderately altered biotite flakes. 5% of the chips exhibit weak pervasive limonite alteration. The unit has been silicified and feldspars altered to clay. Pyrite occurs as trace strongly oxidized disseminated blebs and as intensely oxidized pseudomorphs.
8.00	11.00	Graphitic Shale C0, S1, P4, tr Lm Dark grey shale is interbedded with minor amounts of argillite containing quartz stringers. The shale is slightly graphitic. Limonite alteration occurs along fractures surfaces and bedding plans.
11.00	14.00	Limonitic Altered Quartz Monzonite 75:25 Altered Quartz Monzonite, C0, S2, P4, tr py, 4% Lm Pale orange brown limonite altered quartz monzonite grades into pale grey altered quartz monzonite. 5% of the unit is massive white quartz chips, which are generally weakly limonite altered. Specks of pyrite has been intensely altered to Fe and Mg oxides.
14.00	24.00	Argillite 45:35:20 LAQM:CH, C0, S2, P4, 6%Lm Black silicified argillite is interbedded with medium orange brown Limonitic Altered Quartz Monzonite. Quartz veinlets cross cut the argillite and chert chips. Limonite alteration is intensely pervasive in the Limonitic Altered Quartz Monzonite. In the argillite and chert limonite is found along the margins of the veinlets and along fractures surfaces. The amount of Limonitic Altered Quartz Monzonite decrease to trace below 18 metres depth and the amount of chert and quartz vein material increases from 20 to 24 metres to represent 60% of the unit.
24.00	56.00	Limonitic Altered Quartz Monzonite C1, S1, P2-P3, 1% py, 4% Lm The medium orange brown limonite altered quartz monzonite has a weak pinkish hue. A narrow band of black chert is encountered between 40 and 42 metres. The wetness of the sample indicates that water was encounter between 40 and 42 metress also. Psilomelane occurs at 28 to 32 metres depth, elsewhere the Fe and Mg oxides occur as blebs or along fractures surfaces. 2% fine grained blebs of moderately oxidized py occur between 32 and 38 metres depth. The remainder of the unit contains 1% strongly oxidized py.
56.00	60.00	Argillite 70:30 Chert, C1, S1, P2, tr py, tr Lm Black argillite is interbedded with black chert and cross cut with quartz veinlets. Trace limonite occurs along fractures surfaces. Trace disseminated crystals of mg moderately oxidized py occurs within the argillite.

*** END OF HOLE *** 60.00

RC Drillhole RC97-1738
 Sample Log

9/21/97

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1738	0	2	0.15				DRY
RC97-1738	2	4	0.48		P4	tr	DRY
RC97-1738	4	6	0.64		P3	tr	DRY
RC97-1738	6	8	0.10		P4		DRY
RC97-1738	8	10	0.09		P4		DRY
RC97-1738	10	12	0.31		P3	tr	DRY
RC97-1738	12	14	0.63		P4		DRY
RC97-1738	14	16	0.36		P4	tr	DRY
RC97-1738	16	18	0.45		P4	tr	DRY
RC97-1738	18	20	0.30		P4	tr	DRY
RC97-1738	20	22	0.08		P4	tr	WET
RC97-1738	22	24	0.12		P3	tr	DRY
RC97-1738	24	26	0.25		P3	tr	DRY
RC97-1738	26	28	0.09		P3	1	DRY
RC97-1738	28	30	0.03		P3	1	DRY
RC97-1738	30	32	<0.02		P2	1	DRY
RC97-1738	32	34	<0.02		P2	2	DRY
RC97-1738	34	36	0.09		P2	1	DRY
RC97-1738	36	38	0.07		P3	2	DRY
RC97-1738	38	40	0.05		P3	1	DRY
RC97-1738	40	42	0.05		P3	tr	WET
RC97-1738	42	44	0.05		P2	tr	DRY
RC97-1738	44	46	0.06		P3	tr	DRY
RC97-1738	46	48	0.05		P2	tr	DRY
RC97-1738	48	50	0.04		P3	tr	DRY
RC97-1738	50	52	0.06		P3	1	DRY
RC97-1738	52	54	0.04		P2	tr	DRY
RC97-1738	54	56	0.06		P2	1	DRY
RC97-1738	56	58	0.05		P2	1	DRY
RC97-1738	58	60	0.09		P2	tr	DRY

HOLE NO: RC97-1739	SECTION:17075	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

CONVENTIONA L RC	0.00	12.00	
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	9/4/97		
Date finished:	9/4/97		
Logged by:	A. LAUDRUM		
Relogged by:			
Sampled by:	DYLAN		
CENTRE SAMPLING RC	12.00	60.00	5.25"
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	9/4/97		
Date finished:	9/4/97		
Logged by:	A. LAUDRUM		
Relogged by:			
Sampled by:	DYLAN		

*** COLLAR COORDINATES AND RL ***

SURVEYED	21246.00mN	17075.50mE	781.90RL
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Pre-collar depth: 00 Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments:

Material left in hole: NONE
 Base of complete oxidation 28
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	3.00	COLLUVIUM
3.00	6.00	SHALE
6.00	9.50	ARGILLITE
9.50	15.00	LIMONITIC ALTERED QUARTZ MONZONITE
15.00	17.50	GRAPHITIC ARGILLITE
17.50	33.00	LIMONITIC ALTERED QUARTZ MONZONITE
33.00	43.50	GRAPHITIC ARGILLITE
43.50	52.50	LIMONITIC ALTERED QUARTZ MONZONITE
52.50	60.00	CHERT
60.00		END OF HOLE

Checked and signed: <i>A. Laudrum</i>	Date: <i>Nov 4/97</i>
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From	To	Geological Log
0.00	3.00	Colluvium Fill
3.00	6.00	Shale C0, S0, P4, 2% Lm Dark limonite altered shale contains some graphitic shale
6.00	9.50	Argillite C0, S1, P4, tr Lm Black argillite has trace limonite along fractures surfaces and adjacent to thin trace quartz carbonate veinlets as fine grained to mg specks.
9.50	15.00	Limonitic Altered Quartz Monzonite C1, S1, P4, tr py, 6% Lm medium orange brown limonite altered quartz monzonite is cut with shale, argillite and quartz vein material. The intrusive has been strongly to intensely oxidized. Trace strongly oxidized pyrite occurs at the bottom of the interval. Fe and Mg oxides are smeared across fractures surfaces and disseminated with the Limonitic Altered Quartz Monzonite.
15.00	17.50	Graphitic Argillite C1, S1, P4, tr Lm Black argillite is partially graphitic and cross cut with quartz carbonate stockwork. Trace limonite altered shale occurs at the top of the interval. Pyrite has been intensely oxidized with cubic vugs remaining.
17.50	33.00	Limonitic Altered Quartz Monzonite 85:15 Altered Quartz Monzonite, C1, S1-S2, P2-P3, 2% py, 4% Lm Pale orange brown limonitic altered quartz monzonite with moderately pervasive limonite alteration. Igneous textures are generally obscured by silicification and pyritization. 2% py occurs as blebs and veinlets of fine grained pyrite that has been strongly oxidized to Fe and Mg oxides. Trace medium grained disseminated cubes of moderately tarnished py occur. A narrow band of argillite occurs between 22 and 26 metres. Feldspars in the Altered Quartz Monzonite have been altered to clay. Altered Quartz Monzonite is introduced at 24 metres depth. 5% quartz chips occur throughout the interval.
33.00	43.50	Graphitic Argillite C3, S1, P1-P3, tr py, tr Lm Black graphitic argillite is cross cut with 2% carbonate veinlets. Limonite occurs on fractures surfaces and within the veinlets. Narrow sills of limonitic altered quartz monzonite occur from 38 to the bottom of the interval. Trace py occurs at the edges of veinlets and along fractures surfaces. The pyrite is variably oxidized from weakly to strongly.
43.50	52.50	Limonitic Altered Quartz Monzonite C1-C2, S1, P1-P2, 1% py, 4% Lm Pale orange brown limonitic altered quartz monzonite with a pinkish tinge. The intensity of the limonite decreases from moderately pervasive from 43.5 to 46 metres to weakly pervasive for the remaining interval. 2% moderately oxidized mg disseminated py occurs from 43.5 to 46 metres and only trace weakly oxidized fine grained disseminated py occurs below this. Igneous texture is preserved. The amount of calcite increases from weak to moderate at 48 metres depth.
52.50	60.00	Chert 95:5 Shale, C2, S0-S1, P2, tr py, tr Lm Black massive chert with 1% quartz carbonate veinlets is interbedded with minor graphitic shale. Limonite occurs on fracture surfaces and within quartz carbonate veinlets.

*** END OF HOLE *** 60.00

RC Drillhole RC97-1739
 Sample Log

11/3/97

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1739	0	2	0.08				DRY
RC97-1739	2	4	0.06		P4		DRY
RC97-1739	4	6	0.05		P4		DRY
RC97-1739	6	8	0.03		P4		DRY
RC97-1739	8	10	0.08				DRY
RC97-1739	10	12	0.83		P4		DRY
RC97-1739	12	14	0.82		P4	tr	DRY
RC97-1739	14	16	0.62		P4		DRY
RC97-1739	16	18	0.10		P4	tr	DRY
RC97-1739	18	20	0.08		P3	3	DRY
RC97-1739	20	22	0.23		P3	2	DRY
RC97-1739	22	24	0.14		P2	3	DRY
RC97-1739	24	26	0.17		P2	3	DRY
RC97-1739	26	28	0.17		P3	3	DRY
RC97-1739	28	30	0.10		P2	2	DRY
RC97-1739	30	32	0.03		P3	1	DRY
RC97-1739	32	34	0.07		P2	1	DRY
RC97-1739	34	36	0.05		P3	tr	DRY
RC97-1739	36	38	0.06		P3	tr	DRY
RC97-1739	38	40	0.05		P1	tr	DRY
RC97-1739	40	42	0.06		P2	tr	DRY
RC97-1739	42	44	0.06		P2	tr	DRY
RC97-1739	44	46	0.26		P2	2	DRY
RC97-1739	46	48	0.12		P1	tr	DRY
RC97-1739	48	50	0.08		P1	tr	DRY
RC97-1739	50	52	0.03		P1	tr	DRY
RC97-1739	52	54	0.04		P1	1	DRY
RC97-1739	54	56	0.03		P2	tr	DRY
RC97-1739	56	58	0.03		P2	tr	DRY
RC97-1739	58	60	0.60		P2	tr	DRY

HOLE NO: RC97-1769	SECTION:20490E	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : NORTH SLOPE
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation 35
 Top of fresh rock: >EOH
 Water first encountered: 62
 Water inflow estimate: 35GPM

*** COLLAR COORDINATES AND RL ***

SURVEYED 21000.82mN 20400.50mE 992.64RL

*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 90.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	8.00	COLLUVIUM
8.00	13.50	SILTSTONE (STEEL FORMATION)
13.50	15.00	CHERT
15.00	20.50	GRAPHITIC ARGILLITE
20.50	24.50	CHERT
24.50	26.50	ARGILLITE
26.50	31.00	CHERT
31.00	32.50	SILTSTONE (STEEL FORMATION)
32.50	44.50	CHERT
44.50	46.00	INTERMEDIATE LITHIC TUFF
46.00	55.50	CHERT
55.50	57.50	INTERMEDIATE LITHIC TUFF
57.50	63.00	CHERT
63.00	71.50	INTERMEDIATE LITHIC TUFF
71.50	73.00	SILTSTONE (STEEL FORMATION)
73.00	75.50	INTERMEDIATE LITHIC TUFF
75.50	78.50	SILTSTONE (STEEL FORMATION)
78.50	85.50	ARGILLITE
85.50	87.00	INTERMEDIATE LITHIC TUFF
87.00	88.50	CHERT
88.50	90.00	INTERMEDIATE LITHIC TUFF

Checked and signed: _____ Date: _____

HOLE NO: RC97-1769

SECTION: 20490E

GRID: MINE

90.00

END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	8.00	Colluvium
8.00	13.50	Siltstone (Steel Formation)
13.50	15.00	Chert
15.00	20.50	Graphitic Argillite
20.50	24.50	Chert
24.50	26.50	Argillite
26.50	31.00	Chert
31.00	32.50	Siltstone (Steel Formation)
32.50	44.50	Chert
44.50	46.00	Intermediate Lithic Tuff
46.00	55.50	Chert
55.50	57.50	Intermediate Lithic Tuff
57.50	63.00	Chert
63.00	71.50	Intermediate Lithic Tuff
71.50	73.00	Siltstone (Steel Formation)
73.00	75.50	Intermediate Lithic Tuff
75.50	78.50	Siltstone (Steel Formation)
78.50	85.50	Argillite
85.50	87.00	Intermediate Lithic Tuff
87.00	88.50	Chert
88.50	90.00	Intermediate Lithic Tuff

*** END OF HOLE *** 90.00

HOLE NO: RC97-1770	SECTION:20490E	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : NORTH SLOPE
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation 37
 Top of fresh rock: >EOH
 Water first encountered: 92
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	20983.01mN	20518.05mE	1035.81RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 104.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

*** SURVEY DATA ***

Survey Method:		
Depth	Azimuth	Inclination
0.00	0.00	-75.00

*** SUMMARY LOG ***

0.00	0.50	COLLUVIUM
0.50	9.50	SILTSTONE (STEEL FORMATION)
9.50	12.00	LIMONITIC ALTERED QUARTZ MONZONITE
12.00	16.50	SHALE
16.50	37.00	CHERT
37.00	43.00	SILTSTONE (STEEL FORMATION)
43.00	56.00	ARGILLITE
56.00	69.00	CHERT
69.00	73.50	SILTSTONE (STEEL FORMATION)
73.50	91.50	CHERT
91.50	95.00	GRAPHITIC ARGILLITE
95.00	102.00	CHERT
102.00	104.00	SILTSTONE (STEEL FORMATION)
104.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	0.50	Colluvium
0.50	9.50	Siltstone (Steel Formation)
9.50	12.00	Limonitic Altered Quartz Monzonite
12.00	16.50	Shale
16.50	37.00	Chert
37.00	43.00	Siltstone (Steel Formation)
43.00	56.00	Argillite
56.00	69.00	Chert
69.00	73.50	Siltstone (Steel Formation)
73.50	91.50	Chert
91.50	95.00	Graphitic Argillite
95.00	102.00	Chert
102.00	104.00	Siltstone (Steel Formation)

*** END OF HOLE *** 104.00

HOLE NO: RC97-1771	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : NORTH SLOPE
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation 31
 Top of fresh rock: >EOH
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 112.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:		
Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	10.00	COLLUVIUM
10.00	15.00	SANDSTONE
15.00	21.00	CHERT
21.00	29.00	SILTSTONE (STEEL FORMATION)
29.00	30.00	LIMONITIC ALTERED QUARTZ MONZONITE
30.00	39.00	SILTSTONE (STEEL FORMATION)
39.00	40.00	CHERT
40.00	50.50	SILTSTONE (STEEL FORMATION)
50.50	57.00	CHERT
57.00	58.50	SILTSTONE (STEEL FORMATION)
58.50	79.00	CHERT
79.00	80.00	SILTSTONE (STEEL FORMATION)
80.00	109.00	CHERT
109.00	112.00	ARGILLITE
112.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	10.00	Colluvium
10.00	15.00	Sandstone
15.00	21.00	Chert
21.00	29.00	Siltstone (Steel Formation)
29.00	30.00	Limonitic Altered Quartz Monzonite
30.00	39.00	Siltstone (Steel Formation)
39.00	40.00	Chert
40.00	50.50	Siltstone (Steel Formation)
50.50	57.00	Chert
57.00	58.50	Siltstone (Steel Formation)
58.50	79.00	Chert
79.00	80.00	Siltstone (Steel Formation)
80.00	109.00	Chert
109.00	112.00	Argillite

*** END OF HOLE *** 112.00

HOLE NO: RC97-1772 SECTION: 20790 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : N_SLOPE
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	100.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	29/5/97		
Date finished:	30/5/97		
Logged by:	A.LAUDRUM		
Relogged by:			
Sampled by:	CORY		

*** COLLAR COORDINATES AND RL ***
 SURVEYED 20966.27mN 207901.00mE 1061.34RL

Pre-collar depth: Final depth: 100.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation 22
 Top of fresh rock: >EOH
 Water first encountered: 46
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	0.50	COLLUVIUM
0.50	3.00	SILTSTONE (STEEL FORMATION)
3.00	14.00	GRAPHITIC SHALE
14.00	20.00	GRAPHITIC ARGILLITE
20.00	22.00	LIMONITIC ALTERED QUARTZ MONZONITE
22.00	27.00	GRAPHITIC ARGILLITE
27.00	35.00	ARGILLITE
35.00	50.00	ARGILLITE
50.00	65.00	INTERMEDIATE LITHIC TUFF
65.00	100.00	GRAPHITIC ARGILLITE
100.00		END OF HOLE

Checked and signed: A. Laudrum Date: 16/6/97

From	To	Geological Log
0.00	0.50	Colluvium
0.50	3.00	Siltstone (Steel Formation) 80:20 Argillite, C0, S0, P4, tr py, tr Lm Light to medium grey tan weathered siltstone is interbedded with black argillite. Limonite alteration is moderately pervasive in the siltstone and specks of limonite occur in the argillite. Trace intensely oxidized py occurs along fracture surfaces.
3.00	14.00	Graphitic Shale C0-C1, S0-S1, P4, tr py, tr Lm Black brown graphitic shale has upto 2% py along fracture surfaces between 8 and 18 m.
14.00	20.00	Graphitic Argillite C0-C1, S0-S1, P3-P4, tr py, tr Lm Black graphitic argillite contains a trace amount of narrow quartz carbonate veinlets and py stringers. Medium grained py crystals are disseminated within the argillite at the upper and lower contacts.
20.00	22.00	Limonitic Altered Quartz Monzonite C1, S1, P3, 2% py, 3% Lm Reddish (SbO) limonite altered quartz monzonite rims grey altered quartz monzonite. 2% py is strongly oxidized and occurs as fine grained disseminations and along fracture surfaces. FeO and MgO occur along the fracture surfaces. Trace stibnite veinlets cross cut some chips.
22.00	27.00	Graphitic Argillite C0-C1, S1, P4, tr py, tr Lm Black graphitic argillite contains a trace amount of narrow quartz carbonate veinlets.
27.00	35.00	Argillite 80:20 Siltstone (Steel Formation), C0-C1, S1-S2, P0-P1, 2% py, tr Lm Black slightly graphitic argillite has thin beds of siltstone throughout the unit. It is non calcareous to 30 m and weakly to moderately calcareous from 30 to 35 m depth. Up to 10% quartz veins and stockwork occur in association with the argillite. The quartz is both clear and milky white. The argillite is flooded with very fine grained fresh py. Trace fine grained euhedral crystals of fresh to weakly tarnished py crystals are also disseminated in the argillite. The siltstone is flooded with very fine grained fresh py as well as dark MgO as a result of py oxidation.
35.00	50.00	Argillite 80:10:10 CH:SST, C0-C1, S1, P0-P2, 1% py, tr Lm Black argillite is interbedded with black to grey banded chert and medium grey siltstone. 1% weakly to moderately oxidized py occurs as disseminated specks in the chert and siltstone. Trace limonite occurs along fracture surfaces.
50.00	65.00	Intermediate Lithic Tuff C1, S1, P1-P3, tr py, 1% Lm Light green porphyritic tuff grades from a medium grained unit to a fine grained unit at 58 m. Phenocrysts of augite and plagioclase occur within a pale green clay matrix. Weakly to moderately oxidized py occurs as disseminated blebs along fracture surfaces. Narrow bands of black argillite are interbedded in the unit.
65.00	100.00	Graphitic Argillite 80:15:5 SST:CH, C0-C1, S1, P1-P3, 1% py, tr Lm Black graphitic argillite and black chert is interbedded with dark grey siltstone. Quartz carbonate veinlets crosscut the unit. 1% py occurs as weakly to moderately oxidized blebs in the chert and siltstone and along veinlet rims in the argillite.

*** END OF HOLE *** 100.00

Sample Log

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1772	0	0.5	NO SAMPLE				
RC97-1772	0.5	2	0.01		P4		DRY
RC97-1772	2	4	0.01		P4	tr	DRY
RC97-1772	4	6	0.01		P4	tr	DRY
RC97-1772	6	8	0.01		P4	tr	DRY
RC97-1772	8	10	0.03		P4	2	DRY
RC97-1772	10	12	0.04		P4	tr	DRY
RC97-1772	12	14	0.04		P4	tr	DRY
RC97-1772	14	16	0.03				DRY
RC97-1772	16	18	0.01		P3	tr	DRY
RC97-1772	18	20	0.08		P4	tr	DRY
RC97-1772	20	22	0.03		P3	2	DRY
RC97-1772	22	24	0.03		P4	tr	DRY
RC97-1772	24	26	0.02				DRY
RC97-1772	26	28	0.03		P3	tr	DRY
RC97-1772	28	30	0.34		P2	1	DRY
RC97-1772	30	32	4.96		P1	1	DRY
RC97-1772	32	34	0.61		P1	2	DRY
RC97-1772	34	36	3.04		P1	2	DRY
RC97-1772	36	38	0.05		P1	1	DRY
RC97-1772	38	40	0.04		P1	1	DRY
RC97-1772	40	42	0.06		P0	1	WET
RC97-1772	42	44	0.07		P2	1	WET
RC97-1772	44	46	0.06		P1	tr	WET
RC97-1772	46	48	0.04		P0	tr	WET
RC97-1772	48	50	0.05		P0	tr	WET
RC97-1772	50	52	0.04		P1	tr	WET
RC97-1772	52	54	0.03		P1	1	WET
RC97-1772	54	56	0.05		P1	tr	DRY
RC97-1772	56	58	0.04		P1	1	DRY
RC97-1772	58	60	0.03		P2	tr	DRY
RC97-1772	60	62	0.03		P3	tr	DRY
RC97-1772	62	64	0.05		P1	tr	DRY
RC97-1772	64	66	0.03		P0	1	WET
RC97-1772	66	68	0.05		P1	1	WET
RC97-1772	68	70	0.05		P1	1	DRY
RC97-1772	70	72	0.05		P2	tr	DRY
RC97-1772	72	74	0.07		P1	2	DRY
RC97-1772	74	76	0.04		P3	tr	WET
RC97-1772	76	78	0.06				DRY
RC97-1772	78	80	0.23		P3	tr	WET
RC97-1772	80	82	0.26		P3	1	WET
RC97-1772	82	84	0.18		P3	1	WET
RC97-1772	84	86	0.27		P2	1	WET
RC97-1772	86	88	0.24		P2	1	WET
RC97-1772	88	90	0.12		P3	1	WET
RC97-1772	90	92	0.13		P1	2	WET
RC97-1772	92	94	0.24		P1	1	WET
RC97-1772	94	96	0.13		P2	2	WET
RC97-1772	96	98	0.12		P1	tr	WET
RC97-1772	98	100	0.21		P1	1	WET

HOLE NO: RC97-1773 SECTION: 20790 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : N_SLOPE
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	126.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	29/5/97		
Date finished:	30/9/97		
Logged by:	A.LAUDRUM		
Relogged by:			
Sampled by:	S.SAXTON		

*** COLLAR COORDINATES AND RL ***
 SURVEYED 20920.04mN 20792.94mE 1082.16RL

Pre-collar depth: Final depth: 126.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation 26
 Top of fresh rock: 94
 Water first encountered: 69
 Water inflow estimate: <4 GPM

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-80.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	15.00	GRAPHITIC ARGILLITE
15.00	18.00	SILTSTONE (STEEL FORMATION)
18.00	26.00	SILTSTONE (STEEL FORMATION)
26.00	36.00	SILTSTONE (STEEL FORMATION)
36.00	50.00	GRAPHITIC ARGILLITE
50.00	57.50	SILTSTONE (STEEL FORMATION)
57.50	60.00	ALTERED QUARTZ MONZONITE
60.00	67.00	GRAPHITIC ARGILLITE
67.00	75.00	SILTSTONE (STEEL FORMATION)
75.00	87.50	GRAPHITIC ARGILLITE
87.50	95.50	INTERMEDIATE LITHIC TUFF
95.50	100.00	GRAPHITIC ARGILLITE
100.00	105.50	SILTSTONE (STEEL FORMATION)
105.50	126.00	ARGILLITE
126.00		END OF HOLE

Checked and signed: A. Laudrum Date: Nov 17/97

From	To	Geological Log
0.00	4.00	Colluvium
4.00	15.00	Graphitic Argillite 80:20 Chert, C1, S1, P4, 1% py, tr Lm Dark grey graphitic argillite is interbedded with light grey to dark grey banded chert. The argillite contains fine grained disseminated weakly oxidized py. Strongly oxidized or intensely oxidized py occurs along fracture surfaces in both the argillite and chert. The argillite has limonite along the fracture surfaces.
15.00	18.00	Siltstone (Steel Formation) C1, S1, P4, 1% py, 3% Lm Yellow/grey fine grained siltstone with wispy black laminations is clay rich. Limonite alteration is weakly pervasive. Possible fault location. FeO and MgO occurs along the fracture surfaces.
18.00	26.00	Siltstone (Steel Formation) C0-C1, S1, P1-P4, 2% py, 2% Lm Tan weathered siltstone has limonite and intensely oxidized py along fracture surfaces, 1% moderately oxidized py is disseminated in the siltstone and tr weakly oxidized fine grained bands of py in the siltstone.
26.00	36.00	Siltstone (Steel Formation) C1, S1, P2-P3, tr py, tr Lm Medium grey siltstone contains tr fine grained disseminated py that is moderately to strongly oxidized. Trace limonite alteration occurs along fracture surfaces. Trace quartz carbonate veins cross cut the unit.
36.00	50.00	Graphitic Argillite 90:10 Siltstone (Steel Formation), C0-C1, S1, P1, tr py Black blocky graphitic argillite is interbedded with grey siltstone. Trace quartz carbonate veins and stockwork crosscut the unit. Trace very fine grained py is disseminated in the siltstone
50.00	57.50	Siltstone (Steel Formation) 60:40 Graphitic Argillite, C1-C2, S1, P0-P1, 2% py Medium grey siltstone has 2% fine grained to medium grained disseminated fresh to weakly oxidized py and it is interbedded with dark grey blocky graphitic argillite. The argillite has 1% weakly oxidized disseminated py. Quartz carbonate veins and stockwork cut through the 3 m wide argillite bed at the bottom of the interval.
57.50	60.00	Altered Quartz Monzonite C1-C2, S1, P1, 1% py, tr Lm Pale green/grey altered quartz monzonite is speckled with 1% blebs of weakly oxidized py that is rimmed by limonite. Trace weakly altered biotite remains. The feldspars have been partially altered to clay minerals. Quartz carbonate veinlets in argillite occur at both the upper and lower contact.
60.00	67.00	Graphitic Argillite C0, S1, P1, tr py Black graphitic blocky argillite is cross cut with 5% quartz carbonate stringers and veinlets. Trace fine grained weakly oxidized py occurs as stringers in the veins.
67.00	75.00	Siltstone (Steel Formation) C0-C1, S1, P0-P1, 2% py Pale to medium grey siltstone contains 2% disseminated medium grained py. Trace limonite occurs along the edges of quartz carbonate veinlets and fracture surfaces. 10% of the chips have a porphyritic texture.
75.00	87.50	Graphitic Argillite 90:10 Siltstone (Steel Formation), C1, S1, P0-P1, 2% py Black graphitic argillite with quartz carbonate stockwork at the upper and lower contacts has medium grained euhedral crystals of py along the edges of the veinlets. Grey wispy laminated siltstone with 2% fine grained disseminated py is interbedded with the argillite.
87.50	95.50	Intermediate Lithic Tuff 90:10 Graphitic Argillite, C2, S1-S2, P0-P3, 1% py, tr Lm Green/ grey calcareous medium grained tuff has 1% fine grained disseminated moderately oxidized py and euhedral to subhedral augite and plagioclase crystals. Quartz carbonate veinlets and stringers crosscut the unit. 10% black graphitic argillite is interbedded with the tuff
95.50	100.00	Graphitic Argillite C1, S1, P0, tr py Black fissile graphitic argillite is cross cut with quartz carbonate veins and stockwork. Trace py occurs as medium grained specks within the stockwork.

From	To	Geological Log
100.00	105.50	Siltstone (Steel Formation) C1, S1, P0-P1, 2% py Medium grey pyritic siltstone has 2% fine grained disseminated fresh to weakly oxidized py and trace weakly oxidized stringers of py. Quartz carbonate veinlets and stockwork crosscut the unit.
105.50	126.00	Argillite 70:20:10 CH:SST, C1-C2, S1, P1, 1% py Black argillite is interbedded with black chert and grey wispy laminated siltstone. Quartz carbonate veins cut the chert units. Pyrite occurs as tr weakly oxidized specks in the argillite and stringers in the chert.

*** END OF HOLE *** 126.00

RC Drillhole RC97-1773
Sample Log

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1773	0	4	NO SAMPLE				
RC97-1773	4	6	0.06		P4	tr	WET
RC97-1773	6	8	0.05		P4	tr	DRY
RC97-1773	8	10	0.05		P4	1	DRY
RC97-1773	10	12	0.08		P4	1	DRY
RC97-1773	12	14	0.05		P4	tr	DRY
RC97-1773	14	16	0.09		P4	tr	DRY
RC97-1773	16	18	0.05		P4	tr	WET
RC97-1773	18	20	0.43		P4	1	WET
RC97-1773	20	22	0.59		P4	tr	WET
RC97-1773	22	24	0.18		P4	1	DRY
RC97-1773	24	26	0.14		P3	2	DRY
RC97-1773	26	28	3.01		P3	tr	DRY
RC97-1773	28	30	0.81		P2	2	DRY
RC97-1773	30	32	0.11		P2	tr	WET
RC97-1773	32	34	0.01		P2	tr	WET
RC97-1773	34	36	0.71		P3	tr	WET
RC97-1773	36	38	0.24		P1	tr	WET
RC97-1773	38	40	0.01		P1	tr	WET
RC97-1773	40	42	0.01		P1	1	WET
RC97-1773	42	44	0.01		P1	1	WET
RC97-1773	44	46	0.01		P1	tr	WET
RC97-1773	46	48	0.01			tr	WET
RC97-1773	48	50	0.03		P1	0	WET
RC97-1773	50	52	0.50		P1	tr	WET
RC97-1773	52	54	0.80		P0	3	WET
RC97-1773	54	56	1.27		P1	1	WET
RC97-1773	56	58	0.05		P1	1	WET
RC97-1773	58	60	0.02		P1	tr	WET
RC97-1773	60	62	0.07		P1	2	WET
RC97-1773	62	64	0.06			tr	WET
RC97-1773	64	66	0.03		P1	0	WET
RC97-1773	66	68	0.02		P1	tr	WET
RC97-1773	68	70	0.02		P1	1	WET
RC97-1773	70	72	0.01		P0	2	WET
RC97-1773	72	74	0.01		P0	1	WET
RC97-1773	74	76	0.03		P1	tr	WET
RC97-1773	76	78	0.02		P1	2	WET
RC97-1773	78	80	0.04		P0	1	WET
RC97-1773	80	82	0.02		P0	1	WET
RC97-1773	82	84	0.14		P1	1	WET
RC97-1773	84	86	0.03		P0	2	WET
RC97-1773	86	88	0.12		P1	tr	WET
RC97-1773	88	90	0.02		P1	3	WET

RC Drillhole RC97-1773
Sample Log

RC97-1773	90	92	0.02		P1	tr	WET
RC97-1773	92	94	0.11		P1	1	WET
RC97-1773	94	96	0.01		P1	1	WET
RC97-1773	96	98	0.15		P0	1	WET
RC97-1773	98	100	0.03		P0	tr	WET
RC97-1773	100	102	0.03		P0	1	WET
RC97-1773	102	104	0.02		P1	tr	WET
RC97-1773	104	106	0.04		P1	2	WET
RC97-1773	106	108	0.04		P1	1	WET
RC97-1773	108	110	0.03		P1	1	WET
RC97-1773	110	112	0.02		P1	tr	WET
RC97-1773	112	114	0.04		P1	1	WET
RC97-1773	114	116	0.02		P1	1	WET
RC97-1773	116	118	0.02		P1	1	WET
RC97-1773	118	120	0.03		P1	1	WET
RC97-1773	120	122	0.02		P1	1	WET
RC97-1773	122	124	0.01		P1	1	WET
RC97-1773	124	126	0.03		P1	1	WET

HOLE NO: RC97-1774 SECTION: 20475 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : N_SLOPE
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	201.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	30/5/97		
Date finished:	1/6/97		
Logged by:	A.LAUDRUM		
Relogged by:			
Sampled by:	S.SAXTON & CORY		

*** COLLAR COORDINATES AND RL ***
 SURVEYED 20693.78mN 20432.88mE 1024.65RL

Pre-collar depth: Final depth: 201.50

Purpose of hole: EXPLORATION

Hole status:

Comments:

Material left in hole: NONE
 Base of complete oxidation 19
 Top of fresh rock: 53
 Water first encountered: 70
 Water inflow estimate: 3 GPM

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-60.00

*** SUMMARY LOG ***

0.00	0.50	COLLUVIUM
0.50	11.00	LIMONITIC ALTERED QUARTZ MONZONITE
11.00	14.00	ARGILLITE
14.00	19.00	SILTSTONE (STEEL FORMATION)
19.00	22.00	GRAPHITIC ARGILLITE
22.00	24.00	SILTSTONE (STEEL FORMATION)
24.00	30.00	ARGILLITE
30.00	39.00	SILTSTONE (STEEL FORMATION)
39.00	44.00	GRAPHITIC ARGILLITE
44.00	53.00	SILTSTONE (STEEL FORMATION)
53.00	74.00	ARGILLITE
74.00	80.00	SILTSTONE (STEEL FORMATION)
80.00	104.50	ARGILLITE
104.50	124.00	SILTSTONE (STEEL FORMATION)
124.00	142.00	SILTSTONE (STEEL FORMATION)
142.00	150.00	ARGILLITE
150.00	162.00	SILTSTONE (STEEL FORMATION)
162.00	173.00	ARGILLITE
173.00	177.00	SILTSTONE (STEEL FORMATION)
177.00	177.50	ARGILLITE

Checked and signed: A. Laudrum Date: Nov 17/97

HOLE NO: RC97-1774 SECTION:20475 GRID:MINE

177.50	182.50	SILTSTONE (STEEL FORMATION)
182.50	183.50	ARGILLITE
183.50	194.50	SILTSTONE (STEEL FORMATION)
194.50	199.50	ARGILLITE
199.50	201.50	SILTSTONE (STEEL FORMATION)
201.50		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	0.50	Colluvium
0.50	11.00	Limonitic Altered Quartz Monzonite C0-C2, S0-S1, P4, 6% Lm Medium orange brown limonite altered quartz monzonite has undergone strong pervasive limonite alteration. FeO and MgO occurs as medium grained disseminated blebs and along fracture surfaces. The unit is strongly sericitized and the porphyritic texture is weakly evident.
11.00	14.00	Argillite C1, S1, P4, tr Lm Dark grey weakly fissile argillite has trace limonite alteration along fracture surfaces.
14.00	19.00	Siltstone (Steel Formation) 80:20 Graphitic Argillite, C1, S1, P4, tr py, 1% Lm Grey to tan weathered siltstone is interbedded with weakly fissile argillite. Limonite alteration is weakly pervasive.
19.00	22.00	Graphitic Argillite C0, S1, P4, tr Lm Black graphitic fissile argillite containing quartz veinlets with trace limonite alteration along fracture surfaces and beds.
22.00	24.00	Siltstone (Steel Formation) C1, S1, P4, 1% py, 1% Lm Grey to slightly tan weathered wispy laminated siltstone has trace blebs of oxidized py (MgO, FeO) along fracture surfaces. Limonite alteration is moderately pervasive.
24.00	30.00	Argillite 60:40 Siltstone (Steel Formation), C1, S1, P3, 1% py, 1% Lm Black argillite is interbedded with medium grey siltstone. Limonite alteration is weakly pervasive in the siltstone and occurs on fracture surfaces throughout. 1% py is strongly oxidized along the fracture surfaces. Py also occurs as fine grained disseminated crystals that are moderately oxidized. Quartz carbonate veinlets crosscut the units.
30.00	39.00	Siltstone (Steel Formation) C1, S1, P3, 1% py Medium grey to tan weathered siltstone has white to orange subhedral phenocrysts. 1% py occurs as strongly oxidized disseminations and as blebs along fracture surfaces.
39.00	44.00	Graphitic Argillite C1, S1, P2-P3, tr py Black graphitic argillite contains trace stringers of fine grained py that is moderately to strongly oxidized. Trace quartz carbonate stockwork occurs within the unit.
44.00	53.00	Siltstone (Steel Formation) C1-C2, S0-S1, P0-P1, 1% py, tr Lm Medium grey wispy laminated siltstone has 2% quartz carbonate veinlets crosscutting it. Trace limonite alteration occurs on fracture surfaces. 1% py occurs as fresh fine grained disseminated specks. Quartz carbonate stockwork is prevalent from 50-52 m.
53.00	74.00	Argillite C1-C3, S1, P0, tr py Black partially graphitic argillite is blocky to weakly fissile. Trace narrow quartz carbonate veins cross cut the unit. Trace fresh py occurs as massive chips.
74.00	80.00	Siltstone (Steel Formation) 60:40 Argillite, C1-C2, S1, P0-P1, 1% py Medium grey siltstone with 1% disseminated fresh py crystals has blebs of weakly oxidized py along fracture surfaces. It is interbedded with black argillite.
80.00	104.50	Argillite C1-C3, S0-S1, P0-P2, tr py Black blocky calcareous argillite is slightly graphitic. Medium grained py crystals are disseminated within the argillite at the upper and lower contact.
104.50	124.00	Siltstone (Steel Formation) 60:40 Graphitic Argillite, C0-C2, S1, P2-P3, 2% py Light to medium grey siltstone is intercalated with black graphitic argillite. 5% quartz carbonate stockwork and veins cross cut both units. Moderately oxidized py occurs as medium grained disseminated crystals in the argillite and very fine grained disseminations in the siltstone. Strongly oxidized py occurs along veinlet rims.

From	To	Geological Log
124.00	142.00	Siltstone (Steel Formation) 85:15 Graphitic Argillite, C1-C2, S1-S2, P0-P2, 1% py, tr Lm Light to medium grey moderately calcareous siltstone is interbedded with black graphitic argillite. Trace limonite occurs on quartz carbonate veinlets edges from 124 to 128 m and 132 to 134 m, elsewhere it occurs on fracture surfaces only. Dark very fine grained py occurs as wispy bands in the siltstone.
142.00	150.00	Argillite 70:30 Siltstone (Steel Formation), C1, S1, P0, 1% py Black argillite is interbedded with slightly porphyritic medium grey siltstone. 1% fresh fine grained pyrite is disseminated in the siltstone.
150.00	162.00	Siltstone (Steel Formation) 95:5 Argillite, C1-C2, S1, P1-P3, tr py Light to medium grey siltstone is weakly to moderately calcareous and contains tr fine grained disseminated py. A minor amount of black argillite is interbedded with the unit. Quartz carbonate veinlets occur throughout.
162.00	173.00	Argillite C1-C2, S1, P0, tr py Black argillite is weakly to moderately calcareous.
173.00	177.00	Siltstone (Steel Formation) C1, S1, P0, 3% py Medium to light grey pyritic siltstone has fine grained to medium grained disseminated fresh pyrite crystals
177.00	177.50	Argillite 45:40:15 SST:CH, C1, S1, P1, 2% py Blocky black argillite is interbedded with siltstone and chert. 2% py occurs as stringers within the chert and as fine grained disseminated crystals in the siltstone.
177.50	182.50	Siltstone (Steel Formation) 95:5 Argillite, C1, S1, P0-P1, 3% py Light to medium grey siltstone is weakly calcareous and contains 1% fine grained disseminated py. 2% py occurs as stringers along fracture surfaces.
182.50	183.50	Argillite 45:45:10 SST:CH, C1, S1, P2, 4% py similar pyrite rich unit as from 177 to 177.5
183.50	194.50	Siltstone (Steel Formation) 95:5 Argillite, C1, S1, P1-P2, 3% py Similar to Siltstone (Steel Formation) unit from 177.5 to 182.5.
194.50	199.50	Argillite 90:10 Siltstone (Steel Formation), C0-C1, S1, P0-P3, tr py Black argillite is interbedded with medium grey siltstone. 3% chips of Limonitic Altered Quartz Monzonite also occur - but contamination from the top of the hole is suspected.
199.50	201.50	Siltstone (Steel Formation) 70:20:10 ARG:CH, C1, S1, P2, 1% py Light to medium grey siltstone is weakly calcareous and contains 1% fine grained disseminated py in its groundmass. Black argillite and chert is interbedded with the siltstone. 1% py occurs as stringers in the chert. Trace Limonitic Altered Quartz Monzonite chips are present - but suspected of being a result of contamination from the top of the hole

*** END OF HOLE *** 201.50

HOLE	FROM	TO	Au g/t	Hot Cn	Px	%py	wet/dry
RC97-1774	0.5	2	0.08		P4	0	WET
RC97-1774	2	4	0.03		P4	0	DRY
RC97-1774	4	6	0.03		P4	0	DRY
RC97-1774	6	8	0.02		P4	0	DRY
RC97-1774	8	10	0.01		P4	0	WET
RC97-1774	10	12	0.11		P4	0	DRY
RC97-1774	12	14	0.02		P4	0	WET
RC97-1774	14	16	0.01		P4	tr	DRY
RC97-1774	16	18	0.01		P4	1	DRY
RC97-1774	18	20	0.40		P4	0	WET
RC97-1774	20	22	0.09		P4	0	DRY
RC97-1774	22	24	0.03		P4	1	DRY
RC97-1774	24	26	0.01		P4	tr	DRY
RC97-1774	26	28	0.03		P3	1	DRY
RC97-1774	28	30	0.10		P3	1	DRY
RC97-1774	30	32	0.02		P3	1	DRY
RC97-1774	32	34	0.01		P3	1	DRY
RC97-1774	34	36	0.01		P3	tr	DRY
RC97-1774	36	38	0.01		P3	tr	DRY
RC97-1774	38	40	0.01		P3	tr	DRY
RC97-1774	40	42	0.02		P3	tr	WET
RC97-1774	42	44	0.01		P1	tr	DRY
RC97-1774	44	46	0.01		P0	tr	DRY
RC97-1774	46	48	0.06		P0	tr	DRY
RC97-1774	48	50	0.09		P0	1	DRY
RC97-1774	50	52	0.41		P1	1	DRY
RC97-1774	52	54	0.11		P1	1	DRY
RC97-1774	54	56	0.02		P0	tr	WET
RC97-1774	56	58	0.02		P0	tr	DRY
RC97-1774	58	60	0.03				WET
RC97-1774	60	62	0.01				DRY
RC97-1774	62	64	0.01				WET
RC97-1774	64	66	0.01				WET
RC97-1774	66	68	0.06				DRY
RC97-1774	68	70	0.05		P0	tr	WET
RC97-1774	70	72	0.09				WET
RC97-1774	72	74	0.08		P0	tr	WET
RC97-1774	74	76	0.05				WET
RC97-1774	76	78	0.08		P0	tr	DRY
RC97-1774	78	80	0.13		P1	tr	DRY
RC97-1774	80	82	0.22		P0	tr	WET
RC97-1774	82	84	0.11		P1	tr	WET
RC97-1774	84	86	0.07				WET
RC97-1774	86	88	0.05				WET
RC97-1774	88	90	0.05				WET
RC97-1774	90	92	0.03		P1	tr	WET
RC97-1774	92	94	0.09		P2	tr	WET
RC97-1774	94	96	0.05				WET
RC97-1774	96	98	0.08		P2	tr	WET
RC97-1774	98	100	0.04		P2	tr	WET
RC97-1774	100	102	0.03		P0	tr	WET

RC97-1774	102	104	0.07		P1	tr	WET
RC97-1774	104	106	0.11		P2	2	WET
RC97-1774	106	108	0.01		P2	1	WET
RC97-1774	108	110	0.01		P2	3	WET
RC97-1774	110	112	0.04		P3	3	WET
RC97-1774	112	114	0.05		P2	2	WET
RC97-1774	114	116	0.01		P3	3	WET
RC97-1774	116	118	0.05		P3	2	WET
RC97-1774	118	120	0.06		P2	1	WET
RC97-1774	120	122	0.21		P2	1	WET
RC97-1774	122	124	0.10		P1	1	WET
RC97-1774	124	126	0.07		P1	1	WET
RC97-1774	126	128	0.01		P1	1	WET
RC97-1774	128	130	0.01		P1	2	WET
RC97-1774	130	132	0.03		P1	1	WET
RC97-1774	132	134	0.07		P2	2	WET
RC97-1774	134	136	0.02		P1	1	WET
RC97-1774	136	138	0.01		P0	1	WET
RC97-1774	138	140	0.24		P1	1	WET
RC97-1774	140	142	0.09		P2	1	WET
RC97-1774	142	144	0.30		P0	1	WET
RC97-1774	144	146	0.01		P0	1	WET
RC97-1774	146	148	0.01		P0	tr	WET
RC97-1774	148	150	0.01		P0	tr	WET
RC97-1774	150	152	0.21		P2	1	WET
RC97-1774	152	154	0.17		P1	tr	WET
RC97-1774	154	156	0.09		P3	tr	WET
RC97-1774	156	158	0.03		P1	tr	WET
RC97-1774	158	160	0.03		P3	tr	WET
RC97-1774	160	162	0.04		P2	1	WET
RC97-1774	162	164	0.17		P1	1	WET
RC97-1774	164	166	0.05		P0	1	WET
RC97-1774	166	168	0.02		P0	tr	WET
RC97-1774	168	170	0.03		P0	tr	WET
RC97-1774	170	172	0.06		P0	tr	WET
RC97-1774	172	174	0.05		P0	2	WET
RC97-1774	174	176	0.26		P0	3	WET
RC97-1774	176	178	0.59		P1	2	WET
RC97-1774	178	180	0.73		P0	2	WET
RC97-1774	180	182	0.42		P1	4	WET
RC97-1774	182	184	0.08		P2	tr	WET
RC97-1774	184	186	0.08		P2	4	WET
RC97-1774	186	188	0.13		P2	4	WET
RC97-1774	188	190	0.04		P2	3	WET
RC97-1774	190	192	0.04		P1	2	WET
RC97-1774	192	194	0.04		P0	3	WET
RC97-1774	194	196	0.07		P1	1	WET
RC97-1774	196	198	0.05		P3	tr	WET
RC97-1774	198	200	0.06		P3	tr	WET
RC97-1774	200	201	0.07		P2	1	WET

HOLE NO: RC97-1910	SECTION:23125	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN ZONE
 HOLE TYPE : NA

***** DRILLING SUMMARY *****

RC CENTER SAMPLING	0.00	72.00	5.25	
Drill contractor:	MIDNIGHT SUN			
Drill rig:	SCHRAMM			
Date started:	19/7/97			
Date finished:	19/7/97			
Logged by:	J HANSON			
Relogged by:				
Sampled by:	STEVE S			

***** COLLAR COORDINATES AND RL *****

SURVEYED	19430.22mN	23125.59mE	802.03RL
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Pre-collar depth: 75 Final depth: 75.00
 Purpose of hole: EXPLORATION
 Hole status: SHORTENED 3 M
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 52
 Top of fresh rock: 56
 Water first encountered: >EOH
 Water inflow estimate: A

***** SURVEY DATA *****

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

***** SIGNIFICANT ASSAYS *****

From	To	Width

***** SUMMARY LOG *****

0.00	12.00	COLLUVIUM
12.00	16.00	SILTSTONE (STEEL FORMATION)
16.00	26.50	LIMONITIC ALTERED QUARTZ MONZONITE
26.50	48.00	SILTSTONE (STEEL FORMATION)
48.00	48.50	GRAPHITIC ARGILLITE
48.50	51.00	SILTSTONE (STEEL FORMATION)
51.00	66.50	GRAPHITIC ARGILLITE
66.50	72.00	SILTSTONE (STEEL FORMATION)
72.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	12.00	Colluvium Overburden, fill
12.00	16.00	Siltstone (Steel Formation) C1, S0, P4, tr Lm Medium grey and tan colored Siltstone (Steel Formation) . Limonite is on most fracture surfaces and occasionally between laminations. Unit is weakly calcareous . Fine grained py on fracture surfaces has been intensely oxidized to manganese oxide.
16.00	26.50	Limonitic Altered Quartz Monzonite C2, S1, P4,P3, tr py Medium orange /brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration. Feldspars are strongly altered to soft white clay, and few remaining biotite are clay altered. Unit is strongly calcareous , and is weakly silicified with clear quartz veinlets and rare quartz eyes. Fine grained py has mostly been intensely oxidized , or has been strongly oxidized . 22-24 cube py has been moderate oxidized . Very fine grained silver sulphide (aspy ?) 18-24.
26.50	48.00	Siltstone (Steel Formation) C1, S0, P4, P3, tr py Medium grey and tan colored Siltstone (Steel Formation) with limonite on fracture surfaces throughout unit. Siltstone is weakly calcareous and clear or limonite stained calcite veinlets are visible at 40-42, and 46-48. Fine grained py has been mostly intensely oxidized to manganese oxide, or strongly oxidized .
48.00	48.50	Graphitic Argillite C0, S0, P2, tr py very graphitic argillite, with limonite on few fracture surfaces , is non calcareous . Very fine grained disseminated py appears moderately oxidized and coated with limonite
48.50	51.00	Siltstone (Steel Formation) C1, S0, P4, P1, 1% py Tan colored siltstone has limonite on many fracture surfaces . Unit is weakly calcareous . Fine grained py on limonite surfaces has been intensely oxidized . Very fine grained disseminated py appears fresh.
51.00	66.50	Graphitic Argillite C0, S1, P1, P0, tr py, tr Lm Argillite is strongly graphitic 51-56 with trace limonite on fracture surfaces . Below this chips are only weakly graphitic and much harder here. No limonite below 56m. Very poor chip recovery 64-66. Weakly silicified with white quartz veinlets and stockwork . Unit is non calcareous except at upper contact (calcite veinlets). Very fine grained disseminated py is tarnished at upper contact and fresh below that. No sulphides are visible below 58m.
66.50	72.00	Siltstone (Steel Formation) C0,S1, P0, 1% py, tr Lm Grey and tan colored siltstone with trace limonite on some fracture surfaces , and along outer edges of quartz calcite veins. Siltstone has a delayed and weak reaction to HCl. Very fine grained disseminated py is fresh. Unit has a thin bed of argillite at 70-72. Siltstone at EOH is mostly dark grey and unweathered.

*** END OF HOLE *** 75.00

HOLE NO: RC97-1911 SECTION: 23250 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE : MINE
 LOCATION : BOHEMIAN ZONE
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	90.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	20/7/97		
Date finished:	20/7/97		
Logged by:	J HANSON		
Relogged by:			
Sampled by:	CORY		

*** COLLAR COORDINATES AND RL ***

SURVEYED	19454.90mN	23250.89mE	793.52RL
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Pre-collar depth: 85 Final depth: 90.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 5 M
 Comments: EXTENDED 5M TO 90

Material left in hole: NONE
 Base of complete oxidation: 25
 Top of fresh rock: 40
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	6.00	COLLUVIUM
6.00	12.50	LIMONITIC ALTERED QUARTZ MONZONITE
12.50	13.00	GRAPHITIC ARGILLITE
13.00	18.00	SHALE
18.00	24.50	LIMONITIC ALTERED QUARTZ MONZONITE
24.50	28.50	SHALE
28.50	54.00	SILTSTONE (STEEL FORMATION)
54.00	58.00	GRAPHITIC ARGILLITE
58.00	63.00	SILTSTONE (STEEL FORMATION)
63.00	66.00	ARGILLITE
66.00	75.00	SILTSTONE (EARN GROUP)
75.00	78.00	GRAPHITIC ARGILLITE
78.00	90.00	SILTSTONE (STEEL FORMATION)
90.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	6.00	Colluvium Fill, overburden
6.00	12.50	Limonitic Altered Quartz Monzonite C1, S0, P4, 7% Lm Medium to dark orange /brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration. Feldspars are altered to a soft white clay. Unit is weakly calcareous. Py has been intensely oxidized to dark manganese oxides
12.50	13.00	Graphitic Argillite C1, S1, P4, tr Lm Graphitic Argillite has limonite on fracture surfaces and within fractures in chips. Unit is weakly calcareous , and has trace quartz stockwork .
13.00	18.00	Shale C1, S1, P4, tr Lm Black shale is interbedded with Siltstone (Steel Formation) . Limonite is on most fracture surfaces , and siltstone is weathered to a tan color. Siltstone is weakly calcareous , and there is white quartz stockwork . Fine grained py on fracture surfaces of siltstone has been intensely oxidized .
18.00	24.50	Limonitic Altered Quartz Monzonite C1, S0, P4, 6% Lm Medium orange /brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration. Feldspars are weakly altered to clay, and biotite altered to mica. Weak quartz stockwork 20-22 . Weakly calcareous . Fine grained py , and py along fracture surfaces has been intensely oxidized to dark manganese oxides.
24.50	28.50	Shale C0, S1, P4, tr Lm Black Shale is interbedded with Siltstone (Steel Formation) at upper contact. Limonite is on most fracture surfaces . White quartz stockwork and quartz chips. Fine grained py along fracture surfaces of siltstone has been intensely oxidized .
28.50	54.00	Siltstone (Steel Formation) C1, S0-S1, P2-P0, tr py, tr Lm Siltstone (Steel Formation) is weathered to a tan color down to 38 ; below that rock is fresh and unweathered. Chips are weakly very calcareous and calcite stringers and quartz stockwork are occasionally visible. Fine grained py on fracture surfaces is moderate oxidized and coated with limonite , or tarnished , do a depth of 38m ,below that all py is fresh and unoxidized. Narrow unit of Graphitic Argillite at 48-50 with brecciation in a quartz vein.
54.00	58.00	Graphitic Argillite C1, S1, P0, tr py Graphitic Argillite has trace quartz stockwork , and is weakly calcareous . Very fine grained disseminated py appears fresh.
58.00	63.00	Siltstone (Steel Formation) C1, S0, P0, 2%py Blue grey Siltstone (Steel Formation) is unweathered , and is very weakly calcareous . Very fine grained py is disseminated , and fine grained and coarse grained py occurs on fracture surfaces , and as solid chips (veinlets) . All py is fresh . Minor beds of Graphitic Argillite throughout.
63.00	66.00	Argillite C0, S0, P0, 1% py Argillite is very hard , and has very fine grained disseminated fresh py .
66.00	75.00	Siltstone (Earn Group) C1, S1, P0, 2% py Grey Siltstone (Steel Formation) is unweathered .Unit is calcareous , and has weak quartz stockwork . Fine grained py is disseminated , and coarse grained or cube py is on fracture surfaces . All py is fresh.
75.00	78.00	Graphitic Argillite C1, S0, P0, tr py Graphitic Argillite is calcareous , and has fresh fine grained py in stringers.
78.00	90.00	Siltstone (Steel Formation) C1, S0, P0, 1% py Grey Siltstone (Steel Formation) is unweathered , and is very weakly calcareous . Coarse grained or cube py on fracture surfaces , as well as fine grained py in vnlt, occurs fresh.

*** END OF HOLE *** 90.00

HOLE NO: RC97-1912	SECTION:23250	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	60.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	20/7/97		
Date finished:	20/7/97		
Logged by:	J HANSON		
Relogged by:			
Sampled by:	STEVE S		

*** COLLAR COORDINATES AND RL ***

SURVEYED	19484.87mN	23250.93mE	783.78RL
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Pre-collar depth: 50 Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status: HOLE EXTENDED 10M
 Comments: INTERMITTENT PERMAFROST TO 25M

Material left in hole: NONE
 Base of complete oxidation 30
 Top of fresh rock: 37
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	11.00	COLLUVIUM
11.00	33.00	ARGILLITE
33.00	34.00	SILTSTONE (STEEL FORMATION)
34.00	37.00	ARGILLITE
37.00	39.50	SILTSTONE (STEEL FORMATION)
39.50	44.50	GRAPHITIC ARGILLITE
44.50	52.50	SILTSTONE (STEEL FORMATION)
52.50	60.00	GRAPHITIC ARGILLITE
60.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	11.00	Colluvium Fill, permafrost.
11.00	33.00	Argillite C0-C1, S1, P4, 0% py, 1% Lm Non graphitic Argillite has limonite on most fracture surfaces throughout entire unit. White quartz stockwork and chips present, and Argillite unit becomes weakly calcareous below 20m from calcite veinlets , and calcite in quartz veins. Interbedded with Siltstone (Steel Formation) and chert at 24-26. Narrow unit black shale at30-32, with trace moderately oxidized py on a fracture surface.
33.00	34.00	Siltstone (Steel Formation) C1, S1, P0-P1, 2% py, tr Lm Medium grey Siltstone (Steel Formation) with trace limonite on few fracture surfaces . Siltstone is unweathered and has wavy black laminations. Chips are weakly calcareous and there are quartz calcite veinlets . Some brecciation of Argillite in Siltstone (Steel Formation) chips. Fine grained py coating few fracture surfaces is fresh, or occasionally tarnished . Rare coarse grained or cube py is fresh.
34.00	37.00	Argillite C0, S1, P0-P1, tr py, tr Lm Argillite has tr limonite on few fracture surfaces . Trace white quartz stockwork and quartz chips . Fine grained py that coats few fracture surfaces is fresh, or occasionally tarnished .
37.00	39.50	Siltstone (Steel Formation) C1, S1, P0, tr py Medium grey Siltstone (Steel Formation) has wavy black laminations, and shows no tan weathering, or limonite . Chips are calcareous , and have narrow quartz calcite veinlets . Fine grained py on few fracture surfaces is fresh.
39.50	44.50	Graphitic Argillite C1, S1, P0, tr py Graphitic Argillite is calcareous . Trace quartz calcite veinlets on few fracture surfaces . Trace fine grained py on fracture surfaces is fresh.
44.50	52.50	Siltstone (Steel Formation) C1, S0, P0-P1, tr py, tr Lm Medium grey Siltstone (Steel Formation) has trace limonite ; most limonite occuring at 48-50, with interbedded unit of Graphitic Argillite . Chips are weakly calcareous , and quartz stockwork occurs with Graphitic Argillite . Trace amounts of fine grained py on fracture surfaces of Siltstone (Steel Formation) are fresh or tarnished , except 50-52, where 5% untarnished fine grained py coats entire chips (py veinlets).
52.50	60.00	Graphitic Argillite C1-C0, S1, P0, tr py Graphitic Argillite is weakly calcareous down to 56m , and not calcareous below that. Weakly silicified with white quartz stockwork . Trace very fine grained py on fracture surfaces is fresh. Minor unit Siltstone (Steel Formation) 56-58 , with 2% fine grained and coarse grained disseminated py that is fresh.

*** END OF HOLE *** 60.00

HOLE NO: RC97-1913 SECTION: 23290 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 48.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	20/7/97
Date finished:	20/7/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	STEVE S

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19442.12mN 23290.80mE 792.67RL

Pre-collar depth: 48 Final depth: 48.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 32
 Top of fresh rock: 40
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	290.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	16.00	LIMONITIC ALTERED QUARTZ MONZONITE
16.00	24.00	LIMONITIC ALTERED QUARTZ MONZONITE
24.00	24.50	GRAPHITIC ARGILLITE
24.50	32.50	LIMONITIC ALTERED QUARTZ MONZONITE
32.50	39.00	GRAPHITIC ARGILLITE
39.00	40.00	SILTSTONE (STEEL FORMATION)
40.00	46.50	GRAPHITIC ARGILLITE
46.50	48.00	SILTSTONE (STEEL FORMATION)
48.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	Colluvium Fill, permafrost
4.00	16.00	Limonitic Altered Quartz Monzonite C2, S0, P4-P3, tr py, 5% Lm Medium orange /brown Limonitic Altered Quartz Monzonite . Limonite is weakly pervasive 4-8 ; below that Limonitic Altered Quartz Monzonite has pervasive limonite alteration. Very weak ateration of feldspars , and biotite altered to white mica is visible 4-8 metres. Unit has a moderate reaction to HCl. Fine grained and bleb py on fracture surfaces is strongly oxidized 4-8m, and mostly intensely oxidized to manganese oxide 8-16m.
16.00	24.00	Limonitic Altered Quartz Monzonite 80:20 Altered Quartz Monzonite C2, S0, P4-P2, tr py Medium orange /brown Limonitic Altered Quartz Monzonite with moderately pervasive , to weakly pervasive limonite alteration , interbedded with 20% medium grey Altered Quartz Monzonite . Feldspars on Limonitic Altered Quartz Monzonite are moderately altered to clay ; no alteration of feldspars in Altered Quartz Monzonite . Biotite is altered to white mica except 20-22 where fresh or moderately altered biotite is visible. Unit is strongly calcareous . Quartz chips 18-20. Fine grained py on Limonitic Altered Quartz Monzonite is mostly intensely oxidized , or occasionally strongly oxidized . Trace coarse grained py on Altered Quartz Monzonite is moderately oxidized .
24.00	24.50	Graphitic Argillite C1, S1, P4, tr Lm Graphitic Argillite has limonite on many fracture surfaces , and in fractures within chips. Unit is weakly calcareous on chip surfaces, and quartz calcite stockwork .
24.50	32.50	Limonitic Altered Quartz Monzonite C2, S1, P4-P2, tr py, 5% Lm Medium orange /brown Limonitic Altered Quartz Monzonite has pervasive , to weakly pervasive limonite alteration. Feldspars show only weak argillic alteration. Chip surfaces, and quartz calcite veinlets have moderate reaction to HCl. Fine grained and bleb py has been mostly intensely oxidized . Coarse grained and cube py has been strongly , to moderately oxidized .
32.50	39.00	Graphitic Argillite C1, S1, P2-P0, tr py, tr Lm Graphitic Argillite has trace limonite on some fracture surfaces . Chips are weakly calcareous . Quartz , and quartz calcite stockwork present throughout unit. Very fine grained py has been coated with limonite , or occurs tarnished . Below 38m very fine grained disseminated py is mostly fresh, or may occur tarnished or moderately oxidized . Narrow unit Siltstone (Steel Formation) at 34-36m.
39.00	40.00	Siltstone (Steel Formation) C1, S0, P0, tr py, tr Lm Med grey Siltstone (Steel Formation) is mostly fresh and unweathered, with trace limonite . Chips are weakly calcareous . Trace very fine grained disseminated py is fresh.
40.00	46.50	Graphitic Argillite C1, S1, P0, 3% py Graphitic Argillite has quartz calcite stockwork . Fine grained py on chip surfaces, and very fine grained disseminated py appear fresh.
46.50	48.00	Siltstone (Steel Formation) C1, S1, P0, 1% py Medium grey Siltstone (Steel Formation) is very weakly calcareous from quartz calcite veinlets . Fine grained py on fracture surfaces is fresh.

*** END OF HOLE *** 48.00

From	To	Geological Log
0.00	10.00	Colluvium Fill, overburden
10.00	25.50	Limonitic Altered Quartz Monzonite 90:10 Altered Quartz Monzonite C2, S0, P4-P2, tr py, 6% Lm Medium orange /brown Limonitic Altered Quartz Monzonite with pervasive ,to weakly pervasive limonite . Feldspars show very weak alteration. Unit is strongly calcareous . Most py has been intensely oxidized to manganese oxides . On Altered Quartz Monzonite fine grained and coarse grained py has been moderately oxidized .
25.50	26.00	Argillite C2, S1, P4, tr Lm Argillite has limonite on many fracture surfaces , and in fractures within chips. Unit is calcareous , and has quartz calcite veinlets .
26.00	29.50	Limonitic Altered Quartz Monzonite C2, S0, P4-P3, tr py, 6% Lm Medium orange /brown Limonitic Altered Quartz Monzonite has pervasive , to weakly pervasive limonite alteration . Chips are strongly calcareous . Most fine grained py has been intensely oxidized to manganese oxide , occasionally fine grained py is strongly oxidized .
29.50	43.00	Argillite C1, S1, P2-P0, tr py, tr Lm Argillite has trace limonite on fracture surfaces . Chips are very weakly calcareous , and there is quartz calcite stockwork and quartz chips. Siltstone (Steel Formation) is interbedded with Argillite between 37-39. Py on fracture surfaces has been moderately oxidized . 40-42 fine grained py on fracture surfaces is fresh, and below that py is mostly tarnished , or fresh.
43.00	50.00	Chert C1, S2, P1, 1% py , tr Lm Black chert has at least 10% quartz , and quartz calcite stockwork and chips. Very weak and delayed reaction to HCl. Chips are small, very hard and siliceous, with limonite mostly on quartz . Fine grained and coarse grained py , disseminated or on fracture surfaces is mostly tarnished , and occasionally fresh.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1915 SECTION: 23400 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 120.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	21/7/97
Date finished:	21/7/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	CORY

*** COLLAR COORDINATES AND RL ***

SURVEYED 19424.44mN 23399.91mE 823.69RL

Pre-collar depth: 120 Final depth: 120.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 88
 Top of fresh rock: 95
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00 10.00 COLLUVIUM
 10.00 22.50 GRAPHITIC ARGILLITE
 22.50 32.50 LIMONITIC ALTERED
 QUARTZ MONZONITE
 32.50 40.00 GRAPHITIC ARGILLITE
 40.00 53.00 SILTSTONE (STEEL
 FORMATION)
 53.00 55.00 GRAPHITIC ARGILLITE
 55.00 70.00 SILTSTONE (STEEL
 FORMATION)
 70.00 71.00 GRAPHITIC ARGILLITE
 71.00 95.00 SILTSTONE (STEEL
 FORMATION)
 95.00 114.00 GRAPHITIC ARGILLITE
 114.00 120.00 CHERT
 120.00 END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	10.00	Colluvium Fill, overburden
10.00	22.50	Graphitic Argillite C1, S1, P4, 0% py, 1% Lm Graphitic Argillite has limonite on most fracture surfaces . Chips are very weakly calcareous from trace quartz calcite stockwork .
22.50	32.50	Limonitic Altered Quartz Monzonite C2, S0, P4-P3, tr py, Medium orange /brown Limonitic Altered Quartz Monzonite with pervasive to weakly pervasive limonite . Feldspars are unaltered, becoming weakly altered to clay with depth. Biotite is altered to white mica, and coated with limonite . Unit is strongly calcareous . Py is mostly intensely oxidized to manganese oxides, or may also occur strongly oxidized . Limonitic Altered Quartz Monzonite is interbedded with minor units of Graphitic Argillite 22-27, and Siltstone (Steel Formation) 27-32.
32.50	40.00	Graphitic Argillite C1, S1, P4, 0% py, tr Lm Graphitic Argillite, with limonite on most fracture surfaces ,is interbedded with grey and tan weathered Siltstone (Steel Formation) 22-26 . Unit is weakly calcareous from quartz calcite stockwork, which is stained yellow from limonite . Qtz vein (chips) 22-24. Py on fracture surfaces is intensely oxidized to manganese oxide. Narrow unit Limonitic Altered Quartz Monzonite 38-40.
40.00	53.00	Siltstone (Steel Formation) C1, S1, P4-P3, tr py, tr Lm Grey and tan colored weathered Siltstone (Steel Formation) , with limonite on few fracture surfaces . Chip surfaces are calcareous , and there is quartz calcite stockwork . This stockwork is stained with limonite , or stained a pinkish color. Py on fracture surfaces is mostly intensely oxidized ,or may occur strongly oxidized .
53.00	55.00	Graphitic Argillite C1, S1, P4, 0% py, 1% Lm Graphitic Argillite has limonite on few fracture surfaces , and very weakly calcareous quartz calcite stockwork . No py is visible.
55.00	70.00	Siltstone (Steel Formation) C1, S1, P4,P1- P0, tr py, tr Lm Grey and tan colored weathered Siltstone (Steel Formation) , with pinkish staining on some fracture surfaces . < 5% chips are grey and unweathered. Chips are very weakly calcareous . Trace quartz calcite stockwork . Trace fine grained py has been intensely oxidized , and rare tarnished py cubes are in stockwork 60-62, and fresh coarse grained py disseminated in grey unweathered chips 62-64.
70.00	71.00	Graphitic Argillite C1, S1, P4, P2, tr py, tr Lm Graphitic Argillite is very weakly calcareous , and has quartz stockwork . Trace limonite on most fracture surfaces . Trace tarnished coarse grained disseminated py .
71.00	95.00	Siltstone (Steel Formation) C1, S1, P4-P0, tr py, tr Lm Siltstone (Steel Formation) is mostly weathered and tan colored, with limonite on some fracture surfaces and on quartz stockwork , down to a depth of 91m . Here siltstone is mostly grey with only trace limonite . Minor units of Argillite interbedded with siltstone 91-95. Chips are very weakly calcareous . Quartz calcite stockwork in trace amounts near upper contact ; more frequent with depth. Py is mostly intensely oxidized , or strongly oxidized to a depth of 88m. Below that coarse grained disseminated py is coated with limonite , or occurs fresh in trace amounts. Coarse grained py on fracture surfaces of Argillite is fresh as well. Wet at 84-86.
95.00	114.00	Graphitic Argillite C1, S1, P0, tr py Graphitic Argillite is very weakly calcareous , and has trace quartz calcite stockwork . Trace limonite on fracture surfaces at upper contact, and stockwork is stained yellow. No py 96-102 ; below that coarse grained py on fracture surfaces is fresh. Thin unit grey Siltstone (Steel Formation) 104-106. Wet at 96-98, and 110-112.
114.00	120.00	Chert 50:50 Siltstone (Steel Formation) C0, S1, P0, 2% py Black chert is very hard and siliceous, and interbedded with grey Siltstone (Steel Formation) . White quartz stockwork and quartz chips. Fresh coarse grained py on both Chert and siltstone occurs on fracture surfaces , in veinlets , or disseminated .

RC DRILL LOG
*** END OF HOLE *** 120.00

HOLE NO: RC97-1916	SECTION:23400	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	90.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	21/7/97		
Date finished:	21/7/97		
Logged by:	J HANSON		
Relogged by:			
Sampled by:	STEVE S		

*** COLLAR COORDINATES AND RL ***

SURVEYED	19473.68mN	23386.87mE	801.58RL
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Pre-collar depth: 90 Final depth: 90.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 78
 Top of fresh rock: 86
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	10.00	COLLUVIUM
10.00	27.50	SILTSTONE (STEEL FORMATION)
27.50	40.00	GRAPHITIC ARGILLITE
40.00	52.00	SILTSTONE (STEEL FORMATION)
52.00	62.00	GRAPHITIC ARGILLITE
62.00	63.00	SILTSTONE (STEEL FORMATION)
63.00	90.00	GRAPHITIC ARGILLITE
90.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	10.00	Colluvium Fill, permafrost
10.00	27.50	Siltstone (Steel Formation) C2, S1, P4-P3, tr py, tr Lm Siltstone (Steel Formation) is mostly weathered to a tan color ; about 1/3 of chips are grey. Chips are strongly calcareous , and there is trace quartz calcite stockwork . Trace limonite has stained few fracture surfaces , and stockwork orange. Py is strongly oxidized 10-12, then occurs both intensely or strongly oxidized to end of unit. Siltstone occasionally has pink staining on fracture surfaces (cinnibar?)
27.50	40.00	Graphitic Argillite 50:50 Siltstone (Steel Formation) C1, S1, P4-P3, tr py, tr Lm Graphitic Argillite is interbedded with tan colored Siltstone (Steel Formation) . Argillite has limonite on fracture surfaces . Argillite is not calcareous ; siltstone is strongly calcareous . Weak quartz stockwork in both rock types. Py on siltstone is intensely , or strongly oxidized to manganese oxides.
40.00	52.00	Siltstone (Steel Formation) C2, S1, P4-P3, tr py, tr Lm Tan and grey Siltstone (Steel Formation) ; about 1/2 of the chips are grey and unweathered. Chip surfaces are strongly calcareous , and there is trace quartz calcite stockwork . Trace limonite on fracture surfaces ; very orange limonite on quartz chips 50-52. Fine grained or coarse grained py on fracture surfaces has been intensely or strongly oxidized . Siltstone chips occasionally are a pinkish color throughout.
52.00	62.00	Graphitic Argillite C0, S0, P4, tr Lm Argillite chips are mostly very soft and graphitic, with limonite on many fracture surfaces . Trace quartz stockwork 60-62. Minor unit Siltstone (Steel Formation) near upper contact , with intensely oxidized py on fracture surfaces .
62.00	63.00	Siltstone (Steel Formation) C2, S0, P4, tr Lm Mostly grey Siltstone (Steel Formation) has limonite on some fracture surfaces . Chips are strongly calcareous . Trace manganese oxide from intensely oxidized py on fracture surfaces .
63.00	90.00	Graphitic Argillite C1, S1, P4, P1-P0, tr py, tr Lm Argillite is very graphitic to a depth of 70m ; below this chips become somewhat harder and only weakly graphitic. Chips are very weakly calcareous , and there is weak quartz stockwork . Greenish white clay on fracture surfaces 63-74. Limonite on fracture surfaces to a depth of 82m ; none below that. 76-80 coarse grained py occurs mostly tarnished , 80-EOH fine grained and coarse grained py on fracture surfaces is fresh. 70-72 minor unit very siliceous grey Siltstone (Steel Formation) .

*** END OF HOLE *** 90.00

HOLE NO: RC97-1917	SECTION:233340	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	100.00	5.25	
Drill contractor:	MIDNIGHT SUN			
Drill rig:	SCHRAMM			
Date started:	21/7/97			
Date finished:	21/7/97			
Logged by:	J HANSON			
Relogged by:				
Sampled by:	STEVE S			

*** COLLAR COORDINATES AND RL ***

SURVEYED	19458.70mN	23340.39mE	797.79RL
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Pre-collar depth: 100 Final depth: 100.00
 Purpose of hole: EXPLORATON
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 56
 Top of fresh rock: 64
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	10.00	COLLUVIUM
10.00	35.00	LIMONITIC ALTERED QUARTZ MONZONITE
35.00	67.00	GRAPHITIC ARGILLITE
67.00	74.00	SILTSTONE (STEEL FORMATION)
74.00	94.00	GRAPHITIC ARGILLITE
94.00	100.00	SILTSTONE (STEEL FORMATION)
100.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	10.00	Colluvium Fill, overburden
10.00	35.00	Limonic Altered Quartz Monzonite C2, S0, P4-P3, P2-P1, tr py, 6% Lm Limonic Altered Quartz Monzonite with moderately pervasive limonite alteration. Minor units of Altered Quartz Monzonite 20-22, 34-35. Feldspars are very weakly clay altered, and white mica present. Py on fracture surfaces or disseminated is equally intensely or strongly oxidized to manganese oxide. Altered Quartz Monzonite 20-22 has trace fine grained py moderately oxidized, and Altered Quartz Monzonite 34-35 has fine grained py occurring moderately oxidized or tarnished.
35.00	67.00	Graphitic Argillite C0-C1, S1, P4, P2-P1, tr py, tr Lm Graphitic Argillite has limonite on fracture surfaces, or stains quartz stockwork to a depth of 64m; below that rock is fresh. Graphitic Argillite is calcareous 35-40, has no reaction to HCl 40-50, and becomes weakly calcareous 50-67. Quartz stockwork throughout. All py on fracture surfaces has been oxidized to limonite; tarnished and fresh coarse grained py on fracture surfaces or in veinlets first occurs at 56m.
67.00	74.00	Siltstone (Steel Formation) C2, S0, P0, tr py Grey Siltstone (Steel Formation) is strongly calcareous. Trace fine grained and coarse grained disseminated py is fresh.
74.00	94.00	Graphitic Argillite 50:50 Siltstone (Steel Formation) C1, S0-S1, P0, tr py Argillite and grey Siltstone (Steel Formation) are interbedded throughout unit. Chips are weakly calcareous, and trace quartz stockwork 82-86. Trace coarse grained disseminated py is fresh.
94.00	100.00	Siltstone (Steel Formation) C1, S0, P0, tr py Grey Siltstone (Steel Formation) is weakly calcareous. Trace coarse grained py is fresh.

*** END OF HOLE *** 100.00

HOLE NO: RC97-1930	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	76.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	15/11/97		
Date finished:	15/11/97		
Logged by:	V. PARK		
Relogged by:			
Sampled by:	C. TRAVIS		

*** COLLAR COORDINATES AND RL ***

SURVEYED	20900.40mN	19400.70mE	957.10RL
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Pre-collar depth: Final depth: 76.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED
 Comments: PROPOSED DEPTH = 50.0M

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered: 48
 Water inflow estimate:

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	2.00	OVERBURDEN
2.00	4.00	ARGILLITE
4.00	20.00	SILTSTONE (EARN GROUP)
20.00	22.00	SANDSTONE
22.00	45.00	SILTSTONE (EARN GROUP)
45.00	46.60	GRAPHITIC ARGILLITE
46.60	52.00	LIMONITIC ALTERED QUARTZ MONZONITE
52.00	57.00	LIMONITIC ALTERED QUARTZ MONZONITE
57.00	58.10	GRAPHITIC ARGILLITE
58.10	59.30	ALTERED QUARTZ MONZONITE
59.30	68.00	LIMONITIC ALTERED QUARTZ MONZONITE
68.00	70.30	GRAPHITIC ARGILLITE
70.30	76.00	INTERMEDIATE LITHIC TUFF
76.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Overburden Overburden, as determined by drill site technician; no sample.
2.00	4.00	Argillite Dark grey, slightly silty argillite; non-carbonaceous; weakly siliceous matrix; hard, angular fragments with sharp edges; pale green sericitic coating on many surfaces; no quartz or calcite veining; no sulfides; very weakly calcareous - audible, but not visible, reaction to HCl from unwashed sample only; unwashed sample is darker brown than the underlying unit.
4.00	20.00	Siltstone (Earn Group) ->SH Medium grey shaly siltstone; very fine grained equigranular; hard, platy fragments with very fine bedding laminations; tends toward softer shale locally; almost all surfaces coated with thin limonitic coating - rarely hematitic; unwashed samples have buff colouration; minor sericitization on some surfaces.
20.00	22.00	Sandstone Medium grey to very pale orange, fine grained (<1/4mm), equigranular sandstone; weak sericitization throughout; fine mafic minerals altered to sericite/limonite; fragments are less platy and larger than those in siltstone; very rare mm-scale quartz veinlet fragments; weakly calcareous - reaction from HCl comes from unwashed sample only; no sulfides; planar surfaces have thin limonitic patina.
22.00	45.00	Siltstone (Earn Group) ->ARG Siltstone, as 4.0 - 20.0m; very fine grained locally; all surfaces with limonitic patina - decreasingly common; rare sub-mm quartz veinlets; no sulfides. 26.0 - 28.0m: Muddy and wet. From 40.0m: Very poor recovery of washed sample; becomes weakly carbonaceous; matrix is more calcareous where more carbonaceous.
45.00	46.60	Graphitic Argillite C3 S3 Sk Gr Weakly carbonaceous argillite with minor shale; washed sample is mostly composed of white to weakly orange-stained quartz fragments <1/2cm, and opaque, non-vitreous calcite fragments; reaction to HCl from entire sample is very strong and long-lasting; rare limonitic surfaces; no sulfides; less competent, non-quartz and/or calcite bearing fragments are usually crushed up and washed away - explains their absence from the washed sample.
46.60	52.00	Limonitic Altered Quartz Monzonite C3 Medium yellowish-orange monzonite with weak to moderate pervasive limonitic staining; original phytic textures are very well preserved, with clay-altered k-spar phenocrysts <3mm often observed in site; unit has overall waxy lustre due to pervasive argillic and sericite alterations; most intensely altered chips lack competence and are very easily destroyed; intensely calcareous matrix - very, very strong reaction to HCl intensifies with time; former biotite has altered to limonitic, sericitic masses which are a darker orange than the staining within the matrix and are a likely source for the staining seen in the matrix. Trace disseminated flecks of sub-cubic pyrite <1/10mm which shows nearly complete alteration to limonite; very, very rare sub-mm clear and cloudy quartz veinlets. <40% white, bleached, featureless monzonite; this unit is NOT fresh AQM; rare silvery and/or limonitic sericitic biotite pseudomorphs; rare, very fine (<<1/10mm) pyrite as silvery clusters which appear to replace former biotite; rare fresh disseminated pyrite cubes <1/4mm in similar occurrences.
52.00	57.00	Limonitic Altered Quartz Monzonite 60:40 Altered Quartz Monzonite C3 8% Py P0-P4 Qe As 46.0 - 52.0m, but with slight increase in modal quartz (meaning that there actually is some!) plus rare cloudy and clear quartz eyes <3mm as imbedded and liberated entities; <40% sulfidic, unstained, altered, non-biotitic monzonite. <8% disseminated pyrite 1/4mm to <1/10mm; oxidized fragments show alteration of sulfides to dark red limonite flecks - also frequently coated with manganese oxide; light grey, unoxidized fragments show fresh to very weakly tarnished sulfides; some clusters of ultra fine pyrite, usually tarnished, appear to replace former biotite; rare, trace, very fine (<1/4mm) arsenopyrite seen on unoxidized fragments only; some chips may contain >10% sulfides.

From	To	Geological Log
		Intensely calcareous matrix; very, very rare, clear, hairline quartz veinlets.
57.00	58.10	Graphitic Argillite C3 Sk Gr Black, weakly graphitic argillite; rounded, soft, shale-like fragments; moderately to strongly calcareous matrix with weak, mm-scale calcite veining; no sulfides; this interval may be contamination in a wet hole.
58.10	59.30	Altered Quartz Monzonite C3 12% Py P0 TR As Qe Opaque, white to light grey porphyritic monzonite with numerous clear quartz eyes <3mm and clay altered feldspar phenocrysts <3mm; excellent creamy to silvery sericitic pseudomorphs of biotite; original textures are extremely well preserved; intensely calcareous matrix. >12% siverish, disseminated pyrite 1/4mm to <1/10mm, a very small proportion of which appears to replace former biotite; trace, fine, acicular, fresh arsenopyrite <1/4mm.
59.30	68.00	Limonitic Altered Quartz Monzonite C3 Monzonite; mottled orange-brown and cream; pervasive limonitic staining intensifies to bottom of interval; overall very fine sucrosic/granular texture due to sericitization and/or clay alteration; all biotite altered to orange, sericitic masses with darker colouration than matrix staining; clay altered k-spar phenocrysts <3mm are occasionally observed in situ; original textures are discernible but aren't extremely well preserved; slight waxy appearance; intensely calcareous matrix; no secondary quartz; trace disseminated, oxidized pyrite; very, very rare spotty manganese oxide - especially where limonitic staining increases. <5% argillite is probably contamination in a wet hole. Note: Lower contact assigned where indicated by drill site technician, as lithological units are quite mixed up near the contact.
68.00	70.30	Graphitic Argillite C3 Sk Gr Weakly graphitic argillite in weakly calcareous matrix with moderate quartz-calcite stockwork; trace sub-cm clots of fine grained yellowish pyrite clots.
70.30	76.00	Intermediate Lithic Tuff C3 Sk 1% Py P1 Light to medium grey, intensely argillically altered, very fine grained, granular Menzie Creek tuff; extremely incompetent; intermixed with harder black argillite which might be contamination; intensely calcareous - fine, clear calcite crystals are visible on surfaces of dry, washed chips; weak milky calcite veining; rare chips with rounded calcite amygdules - resembles gumdrops in nougat. >1% pyrite as fresh to weakly tarnished clusters <1cm composed of imperfect crystals with interstitial carbonate.

*** END OF HOLE *** 76.00

HOLE NO: RC97-1931	SECTION:	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	50.00	5.25"
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	15/11/97		
Date finished:	15/11/97		
Logged by:	V. PARK		
Relogged by:			
Sampled by:			

*** COLLAR COORDINATES AND RL ***

SURVEYED	20902.60mN	19440.30mE	958.40RL
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Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED DUE TO LIMONITIC COLOUR
 Comments: PROPOSED DEPTH = 50M

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	1.00	OVERBURDEN
1.00	1.90	LIMONITIC ALTERED
		QUARTZ MONZONITE
1.90	3.00	SILTSTONE (EARN GROUP)
3.00	11.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
11.00	17.00	ARGILLITE
17.00	18.50	LIMONITIC ALTERED
		QUARTZ MONZONITE
18.50	19.50	ARGILLITE
19.50	22.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
22.00	26.40	ARGILLITE
26.40	34.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
34.00	40.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
40.00	48.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
48.00	50.00	ARGILLITE
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	1.00	Overburden =>LAQM C3 Fill, as determined by drill site technician; intensely calcareous and orange stained, barely recognizeable monzonite, as described below.
1.00	1.90	Limonitic Altered Quartz Monzonite C3 Intensely calcareous, sericitic, limonitic monzonite as 3.0 - 11.0m.
1.90	3.00	Siltstone (Earn Group) ->ARG Hard, black argillaceous siltstone; siliceous matrix; orange stained sericite on most surfaces; thicker limonitic patina on several planar surfaces; non-calcareous; non-carbonaceous; no sulfides.
3.00	11.00	Limonitic Altered Quartz Monzonite C3 Very dark orange/orange-brown monzonite; intense, even, pervasive limonitic staining; original textures are destroyed due to intense sericitization and decomposition of feldspar-rich matrix - most altered chips are easily destroyed; unit has felted to granular recrystallized appearance; intense argillic alteration of some modal feldspar - preserved phyrk k-spar crystals or crystal fragments are not preserved; very rare clear quartz eyes <3mm; former biotite has altered to wispy limonitic shreds which do not retain original crystal form; intensely calcareous matrix - rolling, instantaneous, violent reaction to HCl; no secondary quartz; very, very minor modal quartz; minor spotty manganese oxide. Trace dark red flecks of limonite after disseminated sub-cubic pyrite <1/4mm. 6.0 - 8.0m: Rare fragments show <10% dark red limonite flecks <1/10mm; most fragments show trace evidence of former sulfides. 10.0 - 11.0m: Trace hairline quartz-calcite veinlets; very rare fresh black biotite with corroded edges; phyrk textures are regained, with rare waxy, creamy clay-altered k-spar phenocrysts which show some fine dendritic manganese oxide tracings; abundant manganese oxide throughout.
11.00	17.00	Argillite ->SLT Dark grey, occasionally silty argillite; hard, angular fragments with sharp edges; fine limonitic, sericitic coatings on all surfaces to 14.0m; from 14.0m limonite patina exists on occasional planar surfaces; no quartz or calcite veining; no sulfides; very weakly calcareous matrix - unwashed sample provides very strong reaction to HCl; decreasingly silty from 14.0m.
17.00	18.50	Limonitic Altered Quartz Monzonite Dark orange, sericitized quartz monzonite, much as 3.0 - 11.0m; original textures are not well preserved; very rare hairline quartz veinlets; no sulfides; not calcareous, but unwashed sample provides very strong reaction to HCl.
18.50	19.50	Argillite S1 Sk Hard, siliceous, non-carbonaceous, non-calcareous argillite with weak to moderate milky mm-scale quartz veinlets; angular fragments with sharp edges; greenish to limonite-stained coatings on some surfaces; no sulfides.
19.50	22.00	Limonitic Altered Quartz Monzonite C1 Very dark, reddish-orange, intensely altered unit - possibly monzonite, but typical indicators are missing; unit is composed of fine grained, equigranular feldspar grains (<<1/4mm), some of which are completely sericitized and other small flecks which show complete alteration to orange-stained, earthy clay; former biotite is altered beyond recognition; minor spotty manganese oxide; no phyrk textures; unit is extremely incompetent and is easily destroyed; no quartz; moderately calcareous - strongest reaction from unwashes sample; <1% dark red flecks of limonite after former disseminated pyrite <1/4mm. Strongly resembles sandstone, but appearance is not typical of that unit either.
22.00	26.40	Argillite ->ARGG Silty argillite becomes graphitic below 24.0m; siliceous matrix with moderate milky quartz stockwork - veinlets <4mm often show weak limonitic staining, especially near upper contact; no sulfides; non-calcareous.

From	To	Geological Log
26.40	34.00	<p>Limonitic Altered Quartz Monzonite C3 Qe Dull orange-brown monzonite with some creamy mottling (due to decreased pervasive limonitic staining locally) near top of interval; original textures are easily discernible although grain boundaries have been blurred; occasional clear quartz eyes <3mm and very strongly clay altered k-spar phenocrysts <3mm; former biotite preserved as limonitic, sericitic masses, occasionally coated with manganese oxide; feldspar-rich matrix shows moderate sericitization which creates felted to sucrosic appearance; intensely calcareous matrix; trace disseminated pyrite cubes <1/4mm show very strong to complete alteration to limonite.</p>
34.00	40.00	<p>Limonitic Altered Quartz Monzonite ->LQM C3 Monzonite, very much as 26.4 - 34.0m, but with stronger pervasive limonitic staining; biotite crystals are often fresh and black and show an overall decrease in alteration intensity; spotty manganese oxide coating biotite and very rare former disseminated sulfides increases in quantity; no quartz eyes; intensely calcareous; trace, rare disseminated limonite flecks after pyrite; excellent phyrlic, clay-altered k-spar phenocrysts <1/2cm with fine dendritic manganese oxide tracings (pyrolusite) from 38.0m.</p>
40.00	48.00	<p>Limonitic Altered Quartz Monzonite C3 2% Py P4 Qe Dark orange/brown monzonite; very much as 26.4 - 34.0m, but with very strong pervasive limonitic staining; all original textures are well preserved; former biotite as sericitic, limonitic masses; occasional clear quartz eyes <3mm with strong limonitic staining; intensely calcareous matrix; no secondary quartz; <2% sub-cubic, dark red flecks of limonite after disseminated pyrite <1/4mm - frequently coated with manganese oxide; minor spotty manganese oxide throughout; <3% chips lack limonitic staining.</p>
48.00	50.00	<p>Argillite ->SLT C3 Silty argillite; rare carbonaceous horizons; minor calcareous shale and rare white calcite veinlet fragments <3mm; weak quartz stockwork; no sulfides; limonitic coating on many surfaces; rare fragments of shale-like material with pervasive limonitic staining.</p>

*** END OF HOLE *** 50.00

HOLE NO: RC97-1932	SECTION:	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE : MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	20893.00mN	19500.00mE	961.10RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 40.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	1.80	OVERBURDEN
1.80	3.80	LIMONITIC ALTERED QUARTZ MONZONITE
3.80	40.00	SILTSTONE (EARN GROUP)
40.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	1.80	Overburden =>LAQM C3 Fill, as determined by drill site technician; orange-stained monzonite, as described below.
1.80	3.80	Limonitic Altered Quartz Monzonite C3 Qe Dark orange monzonite with very strong, even, pervasive limonitic staining; feldspar-rich matrix shows strong sericitization which creates felted, sucrosic appearance; lighter, waxy, variably clay altered k-spar phenocrysts <3mm are occasionally observed in situ - frequently show dendritic manganese oxide tracings; intensely calcareous matrix; minor spotty manganese oxide on several surfaces; rare, trace disseminated completely oxidized pyrite <1/4mm; former biotite is usually altered (limonite.Sericite) beyond recognition; very, very rare clear quartz eyes <3mm.
3.80	40.00	Siltstone (Earn Group) ->SST+ARG C3 Dark grey argillaceous siltstone or Steel Formation siltstone (due to extremely calcareous nature, but lacks typical appearance); very strongly to intensely calcareous - reaction to HCl intensifies with time and creates an unpleasant odour; no sulfides; weak milky quartz stockwork; fine limonitic patina on several surfaces; minor spotty manganese oxide; soft, shale-like altered fragments; rare calcite veinlets; platy to angular fragments. 12.0 - 14.0m: <5% light grey, platy Steel Formation siltstone. 16.0 - 18.0m: <50% light grey Steel formation siltstone with limonitic surfaces and <1% fresh, disseminated pyrite; more typical appearance for this unit. From 26.0m: Limonitic patina occurs on very rare surfaces only; dark grey to brown; no more quartz. Very little variation throughout - boring!

*** END OF HOLE *** 40.00

HOLE NO: RC97-1933	SECTION:	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	20866.20mN	19501.30mE	954.40RL
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Pre-collar depth: Final depth: 50.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	OVERBURDEN
2.00	6.30	SILTSTONE (EARN GROUP)
6.30	9.80	SILTSTONE (STEEL FORMATION)
9.80	21.00	LIMONITIC ALTERED QUARTZ MONZONITE
21.00	23.90	ALTERED QUARTZ MONZONITE
23.90	26.60	LIMONITIC ALTERED QUARTZ MONZONITE
26.60	46.00	SILTSTONE (EARN GROUP)
46.00	50.00	SILTSTONE (STEEL FORMATION)
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Overburden =>SLT C3 Overburden, as determined by drill site technician; intensely calcareous siltstone as described below.
2.00	6.30	Siltstone (Earn Group) ->SST ->SS C3 Brown-grey to dark grey sandy siltstone to very fine grained equigranular sandstone; very strongly calcareous matrix - very strong to intense reaction to HCl creates an unpleasant smelling gas; tends toward Steel Formation siltstone, but does not resemble typical examples of that unit; moderate greenish sericitization on some surfaces; weak limonitic staining plus stronger limonitic coating on many planar surfaces; rare quartz veinlets; no visible sulfides.
6.30	9.80	Siltstone (Steel Formation) 50:50SLT+SS C3 Medium to dark grey, intensely calcareous Steel Formation siltstone with some sandy siltstone (as 2.0 - 6.3m); chips are more flat; most surfaces with limonitic coating; locally siliceous and chert-like; trace disseminated oxidized pyrite <1/5mm; <10% fragments with pervasive limonitic staining; occasional quartz and calcite veinlets.
9.80	21.00	Limonitic Altered Quartz Monzonite 60:40 Altered Quartz Monzonite C3 Monzonite; <60% of unit shows very strong, even, pervasive limonitic staining while remainder is white to light grey and lacks staining; original textures are very well preserved - clay altered k-spar phenocrysts <4mm; no quartz veinlets; abundant, excellently preserved silver to champagne-coloured sericitic pseudomorphs of biotite; in stained rock the biotite pseudomorphs are occasionally flecked with limonite; stronger sericitization of feldspar-rich matrix within oxidized fragments; rare manganese oxide - more abundant on limonitic fractures. <1% disseminated pyrite <1/4mm - fresh to lightly tarnished (unstained fragments) to completely altered to dark red limonite (oxidized fragments); rare, ultra fine pyrite as clusters which appear to have replaced former biotite. Unoxidized fragments become more abundant with depth but intensity of of limonitic staining in those chips affected increases significantly; oxidation is usually associated with envelopes around natural fractures in rocks. From 18.0m: Very rare quartz eyes. Note: Technician's log indicates the following intervals: 9.7 - 10.7 = Limonitic Altered Quartz Monzonite, 10.7 - 13.7 = Altered Quartz Monzonite, 13.7 - 14.3 = Limonitic Altered Quartz Monzonite, 14.3 - 16.2 = Altered Quartz Monzonite, 16.2 - 16.6 = Limonitic Altered Quartz Monzonite, 16.6 - 18.7 = Altered Quartz Monzonite, 18.7 - 19.3 = Limonitic Altered Quartz Monzonite, 19.3 - 21.0 = Altered Quartz Monzonite.
21.00	23.90	Altered Quartz Monzonite C3 Medium grey to very, very faintly orange, nearly fresh monzonite; all original textures are very well preserved with fresh k-spar phenocrysts <4mm; good pearly to sub-vitaceous lustre; no quartz eyes; abundant biotite as champagne-coloured sericitic pseudomorphs; intensely calcareous matrix; no quartz; no sulfides.
23.90	26.60	Limonitic Altered Quartz Monzonite 80:20 Altered Quartz Monzonite C3 Mottled orange and cream monzonite, as 9.8 - 21.0m; strong to moderate sericitization, especially where pervasive limonitic staining is strongest; original textures are not well preserved; biotite has altered to barely recognizable sericitic, limonitic shreds; rare clay altered k-spar phenocrysts <5mm; very rare disseminated pyrite - fresh on unstained fragments and completely oxidized otherwise; intensely calcareous matrix; spotty manganese oxide; pervasive staining intensifies to lower contact. Technician's log indicates the following intervals: 19.3 - 24.3 = Altered Quartz Monzonite, 24.5 - 25.1 = Limonitic Altered Quartz Monzonite, 25.1 - 26.0 = Altered Quartz Monzonite, 26.0 - 26.2 = Limonitic Altered Quartz Monzonite.

From	To	Geological Log
26.60	46.00	Siltstone (Earn Group) 80:20 Siltstone (Steel Formation) C3 Dark grey to black siltstone; weakly carbonaceous; weak mm-scale, milky quartz stockwork; calcareous matrix - reaction to HCl intensifies with time; no sulfides; rare patchy limonite; minor diversity throughout; rare limonitic surfaces; some shale-like horizons. 30.0 - 34.0m: Resembles Steel Formation siltstone; lighter grey fragments with limonitic patina and several chips with pervasive staining; distinct orange hue which is visually distinct from adjacent samples. 40.0 - 46.0m: <25% light grey to beige Steel Formation siltstone.
46.00	50.00	Siltstone (Steel Formation) C3 Platy Steel Formation siltstone; beige to grey; limonitic surfaces; several fragments with pervasive limonitic staining; no quartz veining; no sulfides; intensely calcareous.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1934	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE : MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered: 32.0M
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	20907.20mN	19550.20mE	962.70RL
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Pre-collar depth: Final depth: 40.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	1.00	OVERBURDEN
1.00	5.40	ARGILLITE
5.40	6.00	LIMONITIC ALTERED QUARTZ MONZONITE
6.00	6.50	GRAPHITIC ARGILLITE
6.50	10.00	LIMONITIC ALTERED QUARTZ MONZONITE
10.00	22.00	LIMONITIC ALTERED QUARTZ MONZONITE
22.00	32.00	ARGILLITE
32.00	40.00	SILTSTONE (EARN GROUP)
40.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	1.00	Overburden =>ARG Overburden, as determined by drill site technician; argillite, as described below.
1.00	5.40	Argillite ->ARGG S2 Sk C1 Gr Non- to weakly carbonaceous argillite; occasionally silty; highest graphite/carbon content at center of interval; moderate milky quartz veinlets, rarely with weak limonitic staining; rare surfaces with very thin limonitic patina; weakly calcareous matrix; no visible sulfides.
5.40	6.00	Limonitic Altered Quartz Monzonite C1 Qe Deep, dark orange monzonite with intense pervasive limonitic staining; original textures are discernible but are overprinted with intense sericitization of fine grained feldspar-rich matrix and argillic alteration of k-spar phenocrysts <3mm; rare quartz eyes; no modal quartz; intense alterations have created chips which lack competence and are very easily destroyed; former biotite has altered to limonitic, sericitic shreds and wisps and is rarely coated with spotty manganese oxide; unit has granular texture; no quartz veining; very weakly calcareous matrix; evidence of former sulfides is absent or not preserved, due to intense alterations.
6.00	6.50	Graphitic Argillite S1 Sk Gr Weakly graphitic, stockworked argillite; as 1.0 - 5.4m.
6.50	10.00	Limonitic Altered Quartz Monzonite C1 3% Py P3 Qe Bright orange to deep orange brown limonitic altered quartz monzonite; excellently preserved phyrlic texture; numerous orange-stained, waxy, strongly clay-altered k-spar phenocrysts <1/2cm, which are frequently patterned with fine, dendritic manganese oxide tracings; clear quartz eyes <3mm are rarely observed; overall pearly to waxy lustre; weak sericitization of modal feldspar; all biotite altered to irregular limonitic, sericitic pseudomorphs; very, very rare fresh, black biotite; very weakly calcareous matrix; no quartz veining. <3% pyrite <1/4mm as completely and nearly completely oxidized disseminations.
10.00	22.00	Limonitic Altered Quartz Monzonite C3 Qe Dull greyish-orange to mottled orange and cream monzonite, similar to 6.5 - 10.0m; variable pervasive limonitic staining tends to increase in intensity with depth; biotite as silvery orange sericitic pseudomorphs; excellent phyrlic textures; increasingly sericitized matrix; intensely calcareous; occasional clear quartz eyes; very, very rare oxidized pyrite <1/4mm; no quartz veining; bleaching to pale white locally - 50% at 14.0 - 18.0m - note: this is not fresh rock.
22.00	32.00	Argillite C3 S1 Sk Black, aphanitic to slightly silty, siliceous argillite; very weakly carbonaceous locally; breaks, often with conchoidal fracture, into hard, angular fragments with sharp edges; calcareous matrix and weak calcite stockwork - slow starting reaction to HCl intensifies with time; few fractures with very thin limonitic patina; weak quartz stockwork; no sulfides; chert-like near upper contact, but becoming less so with depth; quartz veining decreases with depth.
32.00	40.00	Siltstone (Earn Group) C3 Siltstone, as 22.0 - 32.0m, but with slightly larger grains; fragments are more platy; siliceous siltstone tends toward very fine grained sandstone locally; very strongly calcareous; very weak quartz stockwork; trace limonitic surfaces; very weakly carbonaceous locally - eg. 34.0 -36.0m; minor (<5%) unit resembles Steel Formation; trace fresh diagenetic pyrite clusters/chips <1mm.

*** END OF HOLE *** 40.00

HOLE NO: RC97-1935	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	20950.40mN	19551.00mE	962.60RL
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Pre-collar depth: Final depth: 50.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	0.50	OVERBURDEN
0.50	4.80	LIMONITIC ALTERED QUARTZ MONZONITE
4.80	18.50	ARGILLITE
18.50	28.00	SILTSTONE (STEEL FORMATION)
28.00	50.00	SILTSTONE (EARN GROUP)
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	0.50	Overburden =>LAQM C3 Overburden, as determined by drill site technician; dominantly limonitic altered quartz monzonite, as described below.
0.50	4.80	Limonitic Altered Quartz Monzonite C3 5% Py P4 Qe Deep orange-brown, limonitic altered quartz monzonite; very strong, even, pervasive limonitic staining; original phyrlic textures are well preserved although strongly affected by sericitization and clay alteration; numerous opaque, waxy to earthy, orange-stained, strongly clay-altered k-spar phenocrysts <4mm are often viewed in situ; translucent, very slightly orange quartz eyes <3mm are less common; feldspar-rich matrix shows strong to moderate sericite alteration which creates felted to recrystallized appearance, or weak argillic alteration which causes waxy look locally; former biotite now exists as limonitic, sericitic masses and as rare silvery pseudomorphs - commonly coated with irregular manganese oxide; strongly calcareous matrix; no secondary quartz. <5% disseminated cubic pyrite (1/2mm to <1/10mm) has completely altered to dark red limonite and is rarely coated with manganese oxide; <20% chips with dark orange to red, more hematitic staining; sulfide content is strongly evident throughout interval.
4.80	18.50	Argillite C3 Black argillite; very weakly carbonaceous locally; siliceous matrix; aphanitic to silty; chert-like locally; hard, angular chips with very sharp edges; occasional conchoidal fractures; green to brown, fine sericite and carbonate as coatings on some surfaces; limonite is very rare; calcareous matrix, but strongest reaction to HCl comes from powdery, unwashed sample; rare quartz and very, very rare calcite veining; no visible sulfides. Where more silty, the units are platy and original bedding horizons are often discernible. From 15.0m: Increased sericitization; <50% rock tends toward very fine grained sandstone; transitional into Steel Formation siltstone.
18.50	28.00	Siltstone (Steel Formation) C3 Medium grey to buff Steel Formation siltstone; thin platy fragments; strongly calcareous - best reaction from unwashed sample and creates an unpleasant odour; intermixed with <25% calcareous siltstone which resembles silty argillite above and lacks typical Steel Formation appearance; trace, completely oxidized disseminated pyrite; trace spotty manganese oxide on some planes; <3% fragments with strong, even, pervasive limonitic staining; thin limonitic coatings on surfaces is common; rare mm-scale quartz veining.
28.00	50.00	Siltstone (Earn Group) C3 Dark grey to black siltstone; strongly calcareous matrix; greenish brown to orange, sericitic, calcareous coating on many surfaces; rare quartz and no calcite veining; no sulfides; quantity of limonite, usually as very thin coatings on planar surfaces, decreases with depth and becomes rare below 36.0m; angular platy chips often show very fine bedding laminations.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1936	SECTION: 19550.0	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	60.00	5.25	
Drill contractor:	MIDNIGHT SUN			
Drill rig:	SCHRAMM			
Date started:	11/12/97			
Date finished:	11/12/97			
Logged by:	LISA JAMRICH			
Relogged by:				
Sampled by:	ROB BREMNER			

*** COLLAR COORDINATES AND RL ***

NOMINAL	20983.20mN	19550.00mE	957.70RL
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Pre-collar depth: Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	12.00	COLLUVIUM
12.00	38.50	SILTSTONE (EARN GROUP)
38.50	48.00	SILTSTONE (EARN GROUP)
48.00	60.00	SILTSTONE (EARN GROUP)
60.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	12.00	Colluvium
12.00	38.50	<p>Siltstone (Earn Group) C2, S1, P3, tr Py, tr Lm Medium - dark grey Siltstone (Earn Group). Distinctive tan weathering. Limonite occurs on fracture surfaces and as staining on Qtz chips and Qtz stringers. Slightly more orange/brown limonite in intervals 16-20m and 30-36m. Qtz chips appear in 16-18m, 26-28m and 32-34m Qtz stringers also appear through the interval and have orange limonitic staining. Reaction to HCl occurs throughout interval. Pyrite occurs as completely oxidized to MgO2 or moderately to strongly altered to MgO2 fine grained blebs and perhaps stringers because it occurs on fracture surfaces which may have fractured along the stringer. 32-34m the Qtz occurs possibly 2% Py which is highly tarnished or complete MgO2. Some chips in 36-40m appear as a "gneiss" with dark and light Siltstone (Earn Group) blended.</p>
38.50	48.00	<p>Siltstone (Earn Group) C2, S2-S3, P3, tr Py, 1% Lm Light grey to medium grey - mostly light grey Siltstone (Earn Group). Tan weathering occurs strongly. Limonite also occurs on fracture surfaces. Limonite is stronger, and brighter orange than previous interval; also slightly more fracture surfaces contain limonite. Reaction to HCl is moderate. Pyrite is completely altered to MgO2 with tarnish look still appearing on some. Pyrite occurs as blebs on fracture surfaces dominantly. Some fine grained small blebs occur disseminated in a few Siltstone (Earn Group) chips. The chips in this interval seem slightly more siliceous therefore flooding has occurred and some small Qtz veins also occur.</p>
48.00	60.00	<p>Siltstone (Earn Group) C1, S3, P0-P1, 2% Py, tr. Lm Interval dominantly light grey Siltstone (Earn Group). Limonite occurs as tan weathering on about half of the Siltstone (Earn Group) chips and on a few fracture surfaces. The Siltstone is quite siliceous (in fact, the 10% Chert may be very Siliceous Siltstone); therefore flooding has occurred and there is a few Qtz chips which are slightly stained by limonite. The pyrite occurs a fine grained, fresh and disseminated by on the tan weathered Siltstone (Earn Group) chips the pyrite is more fine grained blebby and are tarnished with a few chips have MgO2 blebs on fracture surfaces. The 10% Argillite are dark grey-black Argillite. They contain no limonite except on the few Qtz. Stringer which are slightly stained orange. Pyrite is fresh and fine grained, and occurs disseminated throughout the chips. The chert occurs as very light grey (blue grey). In the chert chips the pyrite is fresh disseminated and fine to medium grained.</p>

*** END OF HOLE *** 60.00

HOLE NO: RC97-1937	SECTION: 19590.5	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC - CENTER SAMPLING	0.00 40.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	11/12/97
Date finished:	11/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	ROB BREMNER

*** COLLAR COORDINATES AND RL ***

NOMINAL	20879.40mN	19590.50mE	975.00RL
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Pre-collar depth: Final depth: 40.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	4.00	INTERMEDIATE LITHIC TUFF
4.00	10.00	INTERMEDIATE LITHIC TUFF
10.00	15.00	INTERMEDIATE LITHIC TUFF
15.00	24.00	INTERMEDIATE LITHIC TUFF
24.00	26.50	GRAPHITIC ARGILLITE
26.50	32.00	SILTSTONE (EARN GROUP)
32.00	34.50	GRAPHITIC SHALE
34.50	40.00	SILTSTONE (EARN GROUP)
40.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.00	Colluvium
2.00	4.00	Intermediate Lithic Tuff C3, S1, P3, tr. Py, 1% Lm Orange/brown and green grey Menzie Creek. Intense reaction to HCl. Half of the interval has about 1% pervasive limonite and limonite on fracture surfaces. The other half seem to be fresh with little limonite occurring. Pyrite is completely oxidized to MgO2 and is in very fine grained blebs. A few Qtz stringers occur and are stained by limonite.
4.00	10.00	Intermediate Lithic Tuff C3, S1, P3 tr. Py, tr. Lm Menzie Creek is as above. 50% Argillite is dark grey to black. Limonite occurs on some fracture surfaces and as staining on Qtz. Veins. Pyrite occurs as fine grained blebs that are completely oxidized to MgO2. No reaction occurs on the Argillite chips by 10% HCl.
10.00	15.00	Intermediate Lithic Tuff C3, S1, P3, 1-2% Py, 1% Lm Orange/brown and green grey Menzie Creek. (Same as 2-4m)
15.00	24.00	Intermediate Lithic Tuff C2, S2, P3, 1% Py, tr 1% Lm Orange/brown and green grey Menzie Creek. (Same as 2-4m) Medium grey Siltstone (Earn Group). Has tan weathering and limonite on fracture surfaces. Pyrite is oxidized to MgO2 with that "black metallic" look. It occurs as fine-grained blebs mostly and is less abundant than in the Menzie Creek. There is a few chips that ar very siliceous and the pyrite is f.g.s disseminated and fairly fresh (slight tarnishing). There is some chips with strong Qtz veining is stained by limonite. A few Qtz chips occur and are not stained. The shale occurs as a medium grey with a green tinge to it. It is fairly competent for shale and breaks rather than squishes. It is hard to tell if there is pyrite in the shale. If so it is completely oxidized to MgO2 and a trace amount in disseminated specks. There is no reaction to HCl on the shale chips.
24.00	26.50	Graphitic Argillite C0, S0, P4, tr Lm Dark grey/black Graphitic Argillite. (Note: very few chips in 24-26m, about 1/4 of the tray filled). Graphitic Argillite has trace limonite on a few surfaces. Pyrite is either completely oxidized or does not exist - hard to tell.
26.50	32.00	Siltstone (Earn Group) C1, S1, P3, tr. Py, tr. Lm Medium grey Siltstone (Earn Group). Tan weathering with limonite on some fracture surfaces. Pyrite is oxidized to MgO2 - trace amounts. There is some Qtz flooding. The shale is medium grey to lighter grey. There is trace limonite on a few fracture surfaces. The shale is pitted and is hard to tell if there is oxidized pyrite but no fresh pyrite seen. Menzie Creek is mostly "coated" in limonite. It is not as strongly reactive as previous intervals. Pyrite is oxidized to MgO2 as fine grained blebs. There is quite a few chips of Qtz in this interval, quite a few chips are completely or half chips of Qtz. The quartz is stained by limonite and have surfaces of MgO2 where fine grained pyrite is oxidized (looks like larger quartz veins with mineralization occurs in this interval) Some blood-red blebs on some quartz chips.
32.00	34.50	Graphitic Shale C0, S0, P4, tr. Lm Light grey to dark grey/black shale. Limonite occurs on some fracture surfaces. Pyrite is not visible so either oxidized completely to MgO2 or not present. No Qtz seen on the shale but there is about 20% Qtz chips in interval. Qtz is stained by limonite. (Note: 32-34m only contains about 1/4 of a tray of chips).
34.50	40.00	Siltstone (Earn Group) C1, S1, P3, tr. Py, tr. Lm Light grey - medium grey Siltstone (Earn Group). Tan weathering with some limonite on fracture surfaces. Trace Qtz veining on chips. Pyrite is oxidized to MgO2 and is blebs of fine grained pyrite. Few qtz chips occur in the interval 36-38m. Menzie Creek is dark coloured with limonite "coating" on most. Different from previous intervals because less qtz eyes and more darker matrix. Pyrite is oxidized to MgO2 and occurs as fine-grained blebs on or around areas with more qtz (or can just see it better).

*** END OF HOLE *** 40.00

HOLE NO: RC97-1938 SECTION: 19588.9 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	62.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	11/12/97		
Date finished:	11/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	CLAY TRAVIS		

*** COLLAR COORDINATES AND RL ***

NOMINAL	20919.20mN	19588.90mE	973.60RL
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Pre-collar depth: Final depth: 62.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	14.00	INTERMEDIATE LITHIC TUFF
14.00	20.00	SILTSTONE (EARN GROUP)
20.00	25.00	GRAPHITIC ARGILLITE
25.00	32.00	SILTSTONE (EARN GROUP)
32.00	40.50	SHALE
40.50	57.00	LIMONITIC ALTERED QUARTZ MONZONITE
57.00	62.00	SILTSTONE (EARN GROUP)
62.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	14.00	<p>Intermediate Lithic Tuff C1, S1, P3, 1% Py, tr -1% Lm Medium - dark grey. A few chips are orangish/brown from pervasive limonite. Other limonite occurs as limonite blebs and specks "spotted" and on fracture surfaces of a few chips. There are a few Qtz veinlets that are stained by limonite also. The pyrite is dominantly oxidized to MgO2 but also the blebs and specs of limonite could have been sulphide but no evidence so it would be P4. The pyrite that is oxidized to MgO2 is fine-grained and blebb. There is also a few grains that are course and are only tarnished to a "copper colour". Slightly calcareous.</p> <p>Shale is light-medium grey. A few chips are pervasively oxidized by limonite and are light-medium orange. Limonite also occurs on a few fracture surfaces. The pyrite is very fine-grained, disseminated oxidized to MgO2. There is a few Qtz veinlets on a few chips and are slightly stained by limonite.</p>
14.00	20.00	<p>Siltstone (Earn Group) C1, S1, P3, tr. Py, 1% Lm Light-medium grey Siltstone (Earn Group). Limonite occurs on fracture surfaces. Distinctive tan weathering on most chips. The limonite on the fracture surfaces is reddish-orange to copper colour to orange. A few Qtz veinlets occur on some chips and are also stained by limonite. The pyrite occurs as fine-grained blebs (most on fracture surfaces) and oxidized to MgO2 and to limonite (copper colour). Also is fine-grained, blebs oxidized to MgO2 elsewhere on the chips. Slight reaction to HCl. Lighter grey to a light medium grey Siltstone (Earn Group). Limonite is less abundant than on the Siltstone (Earn Group). It does occur on a few fracture surfaces. The surface of most chips is "pitted". Fairly soft. Pyrite is fine-grained, disseminated and oxidized to MgO2. Qtz not seen in shale. (Note: there is a few chips of Qtz in the interval. They are stained by limonite and have a few MgO2 specks on them.)</p> <p>The Graphitic Argillite is dark grey to black. Harder than Siltstone (Earn Group) but is also "pitted" and softer than most Graphitic Argillite previously seen in other holes. Small specks of limonite occur. Could perhaps be oxidized pyrite, to small to tell. No Qtz occurs on/in Graphitic Argillite. (Note: 18-20m only 1/3 of tray of chips).</p>
20.00	25.00	<p>Graphitic Argillite C0, S1, P3, tr. -1% Py, tr. Lm Dark grey to black ARGG. Very trace amount of limonite occurs on a few chips. Limonite occurs from oxidation of pyrite. Most pyrite does occur as "stringy-blebs" like squirrels, fine grained and oxidized to MgO2 but not entirely because "metallic" grey-black" Trace Qtz veinlets on a few chips. (Note: 20-22m only contains 1/3 tray of chips). Unbalanced "</p>
25.00	32.00	<p>Siltstone (Earn Group) C1, S3, P3-P4, 1% Py, tr. Lm Medium grey to a light-medium grey Siltstone (Earn Group). Limonite occurs on a few fracture surfaces. Distinctive tan weathering occurs as staining on Qtz. Quartz chips are about 25-30% of the intervals. Must be larger Qtz veins. There are a few chips which are 1/2 Qtz and 1/2 Siltstone (Earn Group). The Qtz is stained by limonite and the pyrite on the Qtz is completely oxidized to MgO2; black specks and a few blebs. The pyrite on the Siltstone (Earn Group) is oxidized to MgO2 but has a "metallic sheen" to it and a few have just tarnished pyrite; all are fine grained and occur as blebs mostly on fracture surfaces. Slightly calcareous.</p>
32.00	40.50	<p>Shale C0, S2, P3-P4, 1-2% Py, tr. Lm Light to medium/dark grey. Darker chips (about 20%) are either graphitic shale or Graphitic Argillite but very soft. Limonite dominantly occurs on the Qtz chips which make up about 20-25% of the interval (more in 32-34m) (Note: about 1/4 tray of chips in 32-34 m). Limonite is on fracture surfaces or as staining. Pyrite is fine-grained and blebby and oxidized to MgO2. Completely oxidized on Qtz and almost completely oxidized on Shale - only trace blebs. Shale is pitted.</p>
40.50	57.00	<p>Limonitic Altered Quartz Monzonite C1, S2-S3, P3-P4, 1% Py, 2-3% Lm Orange/brown Limonitic Altered Quartz Monzonite, dominantly with some reddish brown Limonitic</p> <p>Altered Quartz Monzonite at bottom of interval. Limonite is pervasive and stonger on fracture. Surfaces and around Qtz eyes and feldspars. Limonite also is specks on Qtz chips and specks on Limonitic Altered Quartz Monzonite. Biotite is strongly to completely altered to white mica. There is few chips from 46-48m which has slightly altered bitotite with white rims. Probably a small amount of Altered Quartz Monzonite. The feldspars are stongly altered to clay throughout interval. There are quite a few siliceous chips through interval with increase Qtz flooding seen</p>

From	To	Geological Log
		<p>from 50-57m. Pyrite is oxidized to MgO₂ either completely or strongly. The pyrite is fine-grained and occurs as blebs. Most of the blebs occur on the Qtz or around the areas where primary Qtz occurs. In the areas where the reddish colour Limonitic Altered Quartz Monzonite occur (52-57m) the pyrite that has gone to MgO₂ is rimmed by the reddish coloured limonite. From 48-50m a few chips are Graphitic Argillite occurs; slight Qtz veining, and oxidized pyrite blebs and limonite on a few fracture surfaces.</p>
57.00	62.00	<p>Siltstone (Earn Group) C1, S2-S3, P1-P2, tr.Py, tr. Lm Medium to dark grey Siltstone (Earn Group). Distinctive tan weathering. Limonite occurs mostly on fracture surfaces and as staining on Qtz veinlets. Quite a few chips are lighter in colour. Pyrite is fine-grained and blebby to medium grained cubes. They are tarnished and some are more oxidized black to MgO₂. The Graphitic Argillite is dark grey to dark black. Very little limonite occurs except for a few chips have limonite on their fracture surfaces or tiny limonite specks. Trace disseminated pyrite which is fine-grained and tarnished. A few Qtz. Veinlets occur.</p>

*** END OF HOLE *** 62.00

HOLE NO: RC97-1939	SECTION: 19624.5	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	36.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	11/12/97		
Date finished:	11/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	ARLENE LAUDRUM		

*** COLLAR COORDINATES AND RL ***

NOMINAL	20846.00mN	19624.50mE	978.30RL
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Pre-collar depth: Final depth: 36.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	12.50	SILTSTONE (EARN GROUP)
12.50	18.00	GRAPHITIC ARGILLITE
18.00	22.00	GRAPHITIC ARGILLITE
22.00	36.00	INTERMEDIATE LITHIC TUFF
36.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Colluvium
2.00	12.50	Siltstone (Earn Group) C2, S3-S4, P3, tr Py, tr-1% Lm Light grey Siltstone (Earn Group) and tan Siltstone (Earn Group). Tan Siltstone (Earn Group) from pervasive limonitic staining. Limonite also occurs on fracture surfaces. The chips are siliceous (cherty). Pyrite is fine-grained and small blebs on fracture surfaces. The pyrite is oxidized to MgO ₂ . On the light grey siliceous (cherty) chips there is limonite speck where sulphides were disseminated probably; very fine grained specks.
12.50	18.00	Graphitic Argillite C0, S1, P3-P4, tr Py, tr Lm Dark grey to black Graphitic Argillite. Limonite occurs on fracture surfaces. From 12-16m there is a slight reddish-hue almost like a coating on the chips. Pyrite is oxidized, fine-grained and disseminated. There is a reddish limonite specks. Very trace amount of pyrite seen. There are a few Qtz veinlets on a few chips but nothing significant.
18.00	22.00	Graphitic Argillite C2, S1, P4, 1% Lm Graphitic Argillite (same as previous interval 12.5 -18m) 50% Intermediate Lithic Tuff is orange/brown - orange Intermediate Lithic Tuff. Limonite is pervasive in the Intermediate Lithic Tuff chips. Pyrite is oxidized to MgO ₂ . It is blebs of fine-grained pyrite. There are a few chips of Qtz and a few Qtz veinlets. The veinlets are stained by limonite and the chips have limonitic on fracture surfaces. A strong reaction occurred to 10% HCl.
22.00	36.00	Intermediate Lithic Tuff C2, S1, P4, tr Lm Greenish grey to orange Intermediate Lithic Tuff. Limonite is pervasive in about 25% in all intervals with slightly more at bottom (32-36m). Limonite also occurs on some fracture surfaces and as "coating" in pits of chips. There is some Qtz chips (22-26m). The rest of the intervals contain a few chips of Intermediate Lithic Tuff with some Qtz. From 22-28m. The Intermediate Lithic Tuff crystals must be larger of a little more siliceous. From 28-36m the Intermediate Lithic Tuff crystals are clearer and definitely finer. The pyrite is completely oxidized to MgO ₂ and occurs as small fine-grained blebs on fracture surfaces or on the/or around the Qtz. There is a strong reaction to HCl.

*** END OF HOLE *** 36.00

HOLE NO: RC97-1940	SECTION: 19675.4	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	50.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	16/12/97		
Date finished:	16/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	ARLENE LAUDRUM		

*** COLLAR COORDINATES AND RL ***

NOMINAL	20853.30mN	19675.40mE	981.40RL
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Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	4.00	GRAPHITIC ARGILLITE
4.00	10.50	SILTSTONE (EARN GROUP)
10.50	16.00	SILTSTONE (EARN GROUP)
16.00	23.00	INTERMEDIATE LITHIC TUFF
23.00	24.00	GRAPHITIC ARGILLITE
24.00	41.00	SILTSTONE (STEEL FORMATION)
41.00	50.00	INTERMEDIATE LITHIC TUFF
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Colluvium
2.00	4.00	Graphitic Argillite C0, S1, P4, tr Lm Dark grey to black Graphitic Argillite. Limonite occurs on fracture surfaces and as staining on Qtz veinlets. Pyrite is completely oxidized to MgO ₂ , if any was present (unable to tell - no metallic sheen, etc). A few Qtz veinlets occur in some chips and a few small Qtz chips also occur.
4.00	10.50	Siltstone (Earn Group) C1-C2, S2, P3, tr Py, tr Lm Light grey and tannish grey Siltstone (Earn Group). Most are a tannish color from the tan weathering pervasively. Limonite occurs on fracture surfaces and a few specks of limonite. Pyrite is completely oxidized to MgO ₂ or as limonite specks. Pyrite was very fine-grained and disseminated. There is trace amounts in each interval. The Siltstone (Earn Group) is silicified slightly by flooding and also Qtz veinlets occur in some chips. A strong reaction occurs on some chips and less on others but a reaction occurs in all intervals to HCl.
10.50	16.00	Siltstone (Earn Group) C2, S2, P3, tr Py, 1% Lm Siltstone (Earn Group) occurs as previous interval 4-10.5m). 50% Intermediate Lithic Tuff is orange brown to orange. Limonite occurs pervasively in most chips and is stronger on fracture surfaces and "infill" in pits. Pyrite is oxidized to MgO ₂ ; occurs as fine-grained blebs, mostly on Qtz or on fracture surfaces. There is Qtz veinlets occurring in som chips. There was a strong reaction to HCl.
16.00	23.00	Intermediate Lithic Tuff C2, S1, P4, 1% Lm Intermediate Lithic Tuff occurs as in interval above only without Siltstone (Earn Group), and a few more Qtz veinlets than in 10.5-16m. Pyrite occurs in smaller blebs also.
23.00	24.00	Graphitic Argillite C0, S1, P4, tr. Lm Dark grey to dark black Graphitic Argillite. May be slightly graphitic. Limonite occurs on a few fracture surfaces and a few other specks. Pyrite is completely oxidized to MgO ₂ or never present, cannot tell. Pyrite could have been fine-grained disseminated specks where limonite is now seen. A few Qtz veinlets occur in the Graphitic Argillite.
24.00	41.00	Siltstone (Steel Formation) C0, S1, P4, tr. Lm Medium to dark grey Siltstone (Steel Formation). Non-calcareous. Trace limonite occurs on fracture surfaces and as specks on the chips. 26-30m has reddish limonite on the fracture surfaces. There is also limonite staining on the Qtz veinlets and the few Qtz chips that occur within the intervals. Pyrite is completely oxidized to limonite as specks, where fine-grained disseminated pyrite use to occur. If any disseminated pyrite is oxidized to MgO ₂ , cannot tell because of colour.
41.00	50.00	Intermediate Lithic Tuff C0, S1, P2-P3, 1% Py, tr. Lm Grey to greenish grey Intermediate Lithic Tuff. Limonite occurs as infill in some spots and limonite occurs on alot of the Qtz. Limonite on the Qtz veining and on primary Qtz eyes. Limonite also occurs as specks around fine-grained pyrite. Pyrite occurs as fine-medium grained blebs or specks which are tarnished. Intermediate Lithic Tuff, but no reaction to HCl.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1941 SECTION: 19708.5 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	16/12/97
Date finished:	16/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	ROB BREMNER

*** COLLAR COORDINATES AND RL ***
 NOMINAL 20860.60mN 19708.50mE 987.10RL

Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	4.00	GRAPHITIC ARGILLITE
4.00	34.00	SILTSTONE (STEEL FORMATION)
34.00	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.00	Colluvium
2.00	4.00	Graphitic Argillite C0, S1, P4, tr. Lm. Very dark grey to black Graphitic Argillite. Very trace limonite occurs on a few chips fracture surfaces. Pyrite, if it occurs, is oxidized to MgO ₂ and can't be seen because of the colour. A few chips have Qtz on them, probably from small veinlets.
4.00	34.00	Siltstone (Steel Formation) C0, S1-S2, P3-P4, tr -1% Py, tr -1% Lm Medium grey to dark grey Siltstone (Steel Formation). Has distinctive tan weathering but no reaction to HCl at all. So perhaps tan weathering is just a staining from limonite on Earn group. Limonite occurs on fracture surfaces, on Qtz veinlets and Qtz chips and some small limonite specks. Slight increase in limonite on fracture surfaces from 8-22m. Pyrite is fine-grained and oxidized to MgO ₂ as small blebs. Quartz occurs as veinlets and there is some silification. There is some fracture surfaces with reddish limonite. The limonite specks are probably pyrite that is oxidized to limonite. More pyrite seems to occur around Qtz. Veinlets.
34.00	50.00	Graphitic Argillite C0, S1, P4, tr. Lm Dark grey to dark black Graphitic Argillite. Graphitic Argillite is very soft from 38-40m. From 44-48m the intervals are "gummy" with hard chips (fault gauge??). From 46-50m some limonite occurs on fracture surfaces. From 34-40m very trace limonite occurs. The Qtz veinlets are stained by limonite. There is a few small chips of Qtz in interval. Pyrite is completely altered to MgO ₂ or does not exist at all because of colour and "gummy" coatings. Intervals are highly graphitic with 38-40m may be graphitic shale because so soft.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1942 SECTION: 19709.2 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	16/12/97
Date finished:	16/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	ROB BREMNER

*** COLLAR COORDINATES AND RL ***

NOMINAL	20835.00mN	19709.20mE	984.30RL
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Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: 43M
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	11.00	INTERMEDIATE LITHIC TUFF
11.00	16.50	GRAPHITIC ARGILLITE
16.50	22.00	SILTSTONE (EARN GROUP)
22.00	28.00	SILTSTONE (EARN GROUP)
28.00	30.00	GRAPHITIC ARGILLITE
30.00	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.00	Colluvium
2.00	11.00	Intermediate Lithic Tuff C2, S1, P4, 2% Lm Orangish-tan Intermediate Lithic Tuff stained pervasively by limonite. Limonite is also stronger on some fracture surfaces and as "infill" on some pits. Some reddish-brown limonite occurs on fracture surfaces. Pyrite is fine-grained and occurs as small blebs on fracture surfaces and as small specks. The pyrite is completely oxidized to Manganese Oxide. There is a few chips with small Qtz veinlets. These veinlets are stained by limonite. Note: Intermediate Lithic Tuff seems to be a "granite" texture; salt & pepper under the pervasive limonite. Very calcareous. Siltstone is dark grey with limonite "coating" to conceal the colour. Limonite also occurs on fracture surfaces. Hard to tell if pyrite occurs on siltstone because of limonitic coating. However when broken up there is definitely no P0-P3 pyrite seen so must be P4, if pyrite occurs. Slightly calcareous.
11.00	16.50	Graphitic Argillite C0, S1, P4, tr. Lm Dark grey to black Graphitic Argillite. The dark grey Graphitic Argillite may be Siltstone (Steel Formation) (softer than others). Possibly could be lighter from limonite causing lighter colour. Trace limonite occurs on fracture surfaces. Pyrite is completely oxidized to MgO ₂ . Seen a few blebs on lighter coloured Graphitic Argillite, but on the black Graphitic Argillite can't see MgO ₂ so cannot tell if pyrite exists or not. No reaction to HCl. There is a few small Qtz chips and few Graphitic Argillite chips have Qtz in them. The Qtz is slightly stained orange by limonite.
16.50	22.00	Siltstone (Earn Group) C1-C2, S2, P3, 1% Py, tr -1% Lm Medium grey to tannish Siltstone (Earn Group). Most chips have distinctive tan colouring. The darker chips are less siliceous and the lighter chips are more siliceous. Limonite occurs on fracture surfaces and on Qtz chips and veinlets. 18-22m contain a few chips on Intermediate Lithic Tuff which are like previous interval. Pyrite occurs on most chips as fine-grained blebs of Pyrite that has been oxidized to MgO ₂ . Pyrite also occurs as fine-grained pyrite that has been oxidized to a "copper-colour" or tarnish deeply, probably by limonite because some limonite occurs around some of the larger pyrite grains - but they are still fine-grained.
22.00	28.00	Siltstone (Earn Group) C1, S1-S3, P4-P2 tr Py, tr Lm Light medium grey Siltstone (Earn Group). All of the Siltstone (Earn Group) is "coated" by tan weathering - colour of chips seen better than previous interval. Most Siltstone (Earn Group) chips are highly silicified by Qtz flooding. Limonite occurs as specks and a few fracture surfaces. Pyrite is fine-grained and occurs as small blebs or small specks of oxidized to MgO ₂ and limonite. Copper-coloured blebs of pyrite also. Siltstone (Earn Group) is calcareous. Dark grey/black Graphitic Argillite. Trace limonite occurs on the trace Qtz veinlets that occur in some chips. Pyrite is seen as tarnished small blebs. Pyrite may also be oxidized to MgO ₂ but not seen because of colour.
28.00	30.00	Graphitic Argillite C1, S1, P4, tr -1% Lm Graphitic Argillite is same as 22-28m; only pyrite is either P4 or not present. Intermediate Lithic Tuff is orange. Limonite is pervasive and also strong in pits of chips and fracture surfaces. Pyrite is completely oxidized to MgO ₂ as fine-grained blebs. Slightly calcareous but not as much as previous interval (2-4m). There is a few chips of Qtz (possibly from Intermediate Lithic Tuff) and a few chips have Qtz veinlets that are stained by limonite.
30.00	50.00	Graphitic Argillite C0, S1, P3, tr Py, tr, Lm Dark grey/black Graphitic Argillite. Limonite occurs on a few fracture surfaces as brown/orange. Limonite also occurs as staining on Qtz veinlets and Qtz chips in interval. Less limonite 42-50m - almost none. Pyrite is very trace but is seen oxidized to specks of limonite (copper-coloured) on a few chips in each interval - disseminated. No reaction to HCl.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1943	SECTION: 19734.9	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	40.00	5.25	
Drill contractor:	MIDNIGHT SUN			
Drill rig:	SCHRAMM			
Date started:	16/12/97			
Date finished:	16/12/97			
Logged by:	LISA JAMRICH			
Relogged by:				
Sampled by:	CLAY TRAVIS			

*** COLLAR COORDINATES AND RL ***

NOMINAL	20814.90mN	19734.90mE	986.70RL
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Pre-collar depth: Final depth: 40.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	256.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	16.50	INTERMEDIATE LITHIC TUFF
16.50	18.50	GRAPHITIC ARGILLITE
18.50	20.00	SILTSTONE (EARN GROUP)
20.00	26.50	INTERMEDIATE LITHIC TUFF
26.50	38.50	SILTSTONE (EARN GROUP)
38.50	40.00	GRAPHITIC ARGILLITE
40.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	Colluvium
4.00	16.50	Intermediate Lithic Tuff C1-C2, S1, P3-P4, 1-2% Py, 1% Lm Tan/orange and tan/grey Intermediate Lithic Tuff. Limonite occurs pervasively in interval 4-6m and 12-16m. From 6-12m there is dominantly limonite just occurring on fracture surface with a few chips being pervasively oxidized by limonite. There is limonite filled pits in entire interval. Qtz veining and chips are stained by limonite. There is a few chips 12-14m that have reddish limonite on their fracture surfaces. Pyrite is oxidized to MgO ₂ ; fine-grained and blebby. There is some chips that have "copper-coloured" pyrite blebs in 8-12m. There is a reaction to HCl but seems stronger in 12-16m than rest of interval. 8-10m seem to have some clay or gouge.
16.50	18.50	Graphitic Argillite C0, S1, P4, tr. Lm Dark grey/black Graphitic Argillite. Limonite occurs as staining on the few Qtz chips that contain Qtz veining. Limonite also occurs as specks disseminated on the chips. The pyrite has been completely oxidized to iron oxide and seemed to be fine-grained small blebs or medium-grained pyrite originally. No reaction occurs.
18.50	20.00	Siltstone (Earn Group) C1, S2, P4, tr Lm Tan/grey Siltstone (Earn Group). Distinctive tan weathering occurs. Limonite occurs on a few fracture surfaces. Pyrite is completely oxidized to MgO ₂ ; most occurs as small blebs on fracture surfaces - some occur disseminated. The chips are siliceous but not completely flooded by Qtz. Slight reaction to HCl.
20.00	26.50	Intermediate Lithic Tuff C0-C2, S1, P4, tr. Lm Intermediate Lithic Tuff is dark grey. Looks like Graphitic Argillite - was hard to tell. Graphite covers the Intermediate Lithic Tuff. It is also very fine-grained. The strong reaction distinguishes the Intermediate Lithic Tuff from the Graphitic Argillite. Limonite occurs on a few fracture surfaces 20-22m and is not seen 22-26m. Quartz is seen as small Qtz veinlets and a few small chips 20-22m. Graphitic Argillite is dark grey/black. No reaction occurs and no limonite seen. On both the Intermediate Lithic Tuff and Graphitic Argillite pyrite - if it occurs - must be completely oxidized to MgO ₂ ; can't see any sign of pyrite.
26.50	38.50	Siltstone (Earn Group) C2, S3, P3, tr. Py, tr. Lm Light grey to tan Siltstone (Earn Group). Distinctive tan weathering. Limonite occurs on fracture surfaces and as specks. Limonite stains Qtz veining. Siltstone (Earn Group) is highly siliceous with some light grey chips, possibly being chert. Pyrite is oxidized to MgO ₂ as fine-grained blebs and iron oxide as disseminated pyrite. Iron oxide is a copper-reddish colour. Slight reaction occurs on some chips but not on the strongly siliceous chips. The Intermediate Lithic Tuff is orangish/brown colour. They are pervasively oxidized by the limonite with some limonite in some pits and on fracture surfaces. Pyrite is oxidized to MgO ₂ ; as small fine-grained blebs. Intermediate Lithic Tuff may be slightly siliceous by Qtz flooding, but still have quite a strong reaction to HCl.
38.50	40.00	Graphitic Argillite C0, S0, P4, tr Lm Black/grey Graphitic Argillite. Hard. Trace limonite on a few surfaces. No Quartz seen. No reaction to HCl. Pyrite is oxidized to MgO ₂ - if any occurs - few small blebs may be seen because slightly different colour black.

*** END OF HOLE *** 40.00

HOLE NO: RC97-1944	SECTION: 19756.5	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	50.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	16/12/97		
Date finished:	16/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	CLAY TRAVIS		

*** COLLAR COORDINATES AND RL ***

NOMINAL	20822.90mN	19756.50mE	994.30RL
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Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	256.00	-55.00

*** SUMMARY LOG ***

0.00	3.00	COLLUVIUM
3.00	19.00	SILTSTONE (EARN GROUP)
19.00	24.50	INTERMEDIATE LITHIC TUFF
24.50	26.00	SILTSTONE (EARN GROUP)
26.00	38.00	INTERMEDIATE LITHIC TUFF
38.00	40.00	GRAPHITIC ARGILLITE
40.00	50.00	SILTSTONE (EARN GROUP)
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	3.00	Colluvium
3.00	19.00	Siltstone (Earn Group) C3, S3-S4, P4, tr Lm Light grey to tan Siltstone (Earn Group). Distinctive tan weathering. Trace limonite on fracture surfaces with Qtz and Qtz chips and veinlets are stained by limonite. Extremely strong reaction to 10% HCl - like limestone. Chips are very siliceous. Light grey chips are almost like chert but still fizz. Tan chips - which dominate - are very siliceous also. The flooding must have been Qtz and calcite flooding. Chips are quite hard. Pyrite is completely oxidized to MgO ₂ as fine-grained blebs and a few stringers. In 6-8m there are about 5% Qtz chips and more abundant Qtz veining.
19.00	24.50	Intermediate Lithic Tuff C2, S1, P4, 1% Lm Dark grey to orange/brown Intermediate Lithic Tuff. Limonite is pervasive on orange/brown Intermediate Lithic Tuff. Limonite also occurs on fracture surfaces and as "infill" in small pits. Limonite also stains the Qtz veinlets and Qtz chips. Dark grey and orange/brown chips are about 50/50%. Pyrite is completely oxidized to MgO ₂ . Easier to see on the oxidized orange/brown chips. Pyrite is fine-grained and occurs as small blebs and on fracture surfaces. Quite a strong reaction occurs after a few seconds.
24.50	26.00	Siltstone (Earn Group) C3, S3, P4, tr Lm Light grey to tan Siltstone (Earn Group). Distinctive tan weathering. Trace limonite on fracture surfaces with Qtz and Qtz chips and veinlets are stained by limonite. Extremely strong reaction to 10% HCl - like limestone. Chips are very siliceous. Light grey chips are almost like chert but still fizz. Tan chips - which dominate - are siliceous also. The flooding must have been Qtz and calcite flooding. Chips are quite hard. Pyrite is completely oxidized to MgO ₂ as fine-grained blebs and a few stringers. In 6-8m there are about 5% Qtz chips and more abundant Qtz veining.
26.00	38.00	Intermediate Lithic Tuff C1-C2, S1, P4, 1% Lm Orange/brown Intermediate Lithic Tuff. Limonitic is pervasive. Limonite also occurs on fracture surfaces (darker) and as "infill" in small pits on chip surfaces. Limonite also stains Qtz veinlets and the Qtz chips that are in interval. Pyrite is in fine-grained blebs - more abundant on fracture surfaces - and is completely oxidized to MgO ₂ . Quite a strong reaction to HCl. The siltstone is dark grey. Limonite occurs on fracture surfaces. Grains are large could almost be Intermediate Lithic Tuff or sandstone. Reacts to HCl slightly. Softer than Intermediate Lithic Tuff and grains are more unified than the other Intermediate Lithic Tuff. Pyrite is oxidized to MgO ₂ and is trace amounts of fine-grained blebs. 36-38m is coated with clay mud and about 1/4 of the tray full.
38.00	40.00	Graphitic Argillite C0-C1, S1, P4, tr Lm Black Graphitic Argillite. Quite graphitic. No reaction to HCl. No limonite seen. Pyrite not visible, or none there or completely oxidized to MgO ₂ . Dark grey/black Siltstone (Earn Group). Slightly reactive. Slightly softer than Graphitic Argillite. Covered with graphite also. Small trace of limonite makes graphite slightly reddish on both. Pyrite must be completely altered to MgO ₂ or not present.
40.00	50.00	Siltstone (Earn Group) C2, S2-S3, P4, tr Lm Dark grey to tan Siltstone (Earn Group). About 50/50 dark and light Siltstone (Earn Group). Limonite occurs on fracture surfaces and on Qtz veinlets and Qtz chips. Limonite also occurs on tan chips as limonitic specks. More limonite occurs on tan chips. The darker chips seem slightly grainy like sandstone. Both are same hardness. Pyrite is completely oxidized to MgO ₂ and some iron oxide. Occurs as fine-grained blebs and some disseminated. Reaction occurs slightly more on the darker chips than lighter. The lighter chips (tan) are flooded by Qtz and moderately siliceous to strongly siliceous. The darker chips are only slightly to moderately siliceous.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1945	SECTION: 19674.7	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	50.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	17/12/97		
Date finished:	17/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	CLAY TRAVIS		

*** COLLAR COORDINATES AND RL ***

NOMINAL	20821.00mN	19674.70mE	976.10RL
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Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:		
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	4.00	GRAPHITIC ARGILLITE
4.00	7.00	SILTSTONE (EARN GROUP)
7.00	8.00	GRAPHITIC ARGILLITE
8.00	18.00	SILTSTONE (EARN GROUP)
18.00	32.00	SILTSTONE (EARN GROUP)
32.00	40.00	GRAPHITIC ARGILLITE
40.00	43.00	INTERMEDIATE LITHIC TUFF
43.00	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Colluvium
2.00	4.00	Graphitic Argillite C0, S1, P4, tr Lm Black Graphitic Argillite. No reaction to HCl. Little limonite seen; occurs on a few fracture surfaces and on Qtz chips. Pyrite is completely oxidized to MgO ₂ if it occurs - hard to tell.
4.00	7.00	Siltstone (Earn Group) C2, S3, P4, tr Lm Orange/tan Siltstone (Earn Group). Distinctive tan weathering pervasive. Limonite occurs on fracture surfaces and as specks on the chips. Pyrite is completely oxidized to MgO ₂ , fine-grained blebs, mostly fracture surfaces. Pyrite is also oxidized to iron oxide as slightly coarser-grained pyrite which is disseminated - bright reddish-copper colour. Chips are highly silicified by Qtz flooding. Quite a strong reaction to HCl after a few seconds.
7.00	8.00	Graphitic Argillite C0, S1, P4, tr Lm Black Graphitic Argillite. No reaction to HCl. Little limonite seen; occurs on a few fracture surfaces and on Qtz chips. Pyrite is completely oxidized to MgO ₂ , if it occurs - hard to tell.
8.00	18.00	Siltstone (Earn Group) C2, S3, P4, tr Lm Orange/tan Siltstone (Earn Group). Distinctive tan weathering pervasive. Limonite occurs on fracture surfaces and as specks on the chips. Pyrite is completely oxidized to MgO ₂ , fine-grained blebs, mostly on fracture surface. Pyrite is also oxidized to iron oxide as slightly reddish-copper colour. Chips are highly silicified by Qtz flooding. Quite a strong reaction to HCl after a few seconds. There are a few chips in 8-12m. The colour of the siltstone is light grey to tan/orange Siltstone (Earn Group). Pyrite has oxidized stringers of fine-grained pyrite to MgO ₂ .
18.00	32.00	Siltstone (Earn Group) C0-C2, S1-S3, P4-P2, tr Py, tr Lm Light grey to tan/orange Siltstone (Earn Group). Limonite occurs on a few fracture surfaces and on Qtz chips. Moderate reaction to HCl. Pyrite occurs as completely oxidized to MgO ₂ , fine grained blebs; also as completely oxidized to MgO ₂ fine grained stringers; also as P2 - moderately oxidized to MgO ₂ blebs where a ring of black outlines the bleb - no pattern occurs in grey and tan/orange and different amount of flooding. Small amount of pyrite oxidized to iron oxide as specks on a few chips. All Siltstone (Earn Group) chips are moderately to highly siliceous. Black Graphitic Argillite chips. Very trace to no limonite occurs only on small amounts of Qtz on chips. No reaction to HCl occurs. Pyrite is completely oxidized to MgO ₂ or does not occur. Orange/brown Intermediate Lithic Tuff. Limonite is pervasive and on some fracture surface, it is more intense. Strong reaction to HCl. Few Qtz stringers seen and a few Qtz chips are visible. Pyrite is oxidized to MgO ₂ and is fine-grained blebs mostly on fracture surfaces and in pits.
32.00	40.00	Graphitic Argillite C0-C1, S1-S3, P4, tr Lm Dark grey/black to black Graphitic Argillite. Could be Graphitic Argillite with a small amount of graphite. Trace amount of limonite on a few fracture surfaces and a small amount of Qtz. Pyrite is absent or completely oxidized to MgO ₂ . No reaction to HCl. Siltstone is same as 18-32m. Slightly more in 38-40m. Intermediate Lithic Tuff is same as 18-32m.
40.00	43.00	Intermediate Lithic Tuff C2, S1, P4, 1-2% Lm Orange/brown Intermediate Lithic Tuff. Pervasive limonite throughout the interval. Limonite also occurs on fracture surfaces - slightly more intense. Strong reaction to HCl. Qtz chips more abundant in 40-42m the 42-43m. Qtz stained by limonite. Pyrite is completely oxidized to MgO ₂ ; fine-grained and blebby on fracture surfaces and in pits of chips. From 40-42m looks like clay coating and small "gouge" in interval.
43.00	50.00	Graphitic Argillite C0, S1, P4, tr Lm Dark grey/black Graphitic Argillite. Limonite occurs on fracture surfaces and as staining on Qtz veinlets. Pyrite is completely oxidized to MgO ₂ or is absent. Slightly graphitic. No reaction to HCl.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1946	SECTION: 19625.2	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	36.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	17/12/97		
Date finished:	17/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	ROB BREMNER/CLAY TRAVIS		

*** COLLAR COORDINATES AND RL ***

NOMINAL	20807.40mN	19625.20mE	964.60RL
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Pre-collar depth: Final depth: 36.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.50	COLLUVIUM
2.50	15.00	GRAPHITIC ARGILLITE
15.00	19.00	SILTSTONE (STEEL FORMATION)
19.00	28.00	INTERMEDIATE LITHIC TUFF
28.00	36.00	INTERMEDIATE LITHIC TUFF
36.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.50	Colluvium
2.50	15.00	Graphitic Argillite C0, S1-S3, P4, tr Lm Dark grey/black to black Graphitic Argillite. Trace limonite on some fracture surfaces; limonite and limonite staining on Qtz chips and Qtz veining. Limonite also occurs as trace specks on some of the chips. No reaction to HCl. From 4-6m Graphitic Argillite may be very siliceous or possibly black chert. From 6-10m there is more Qtz present than in the other intervals. Stained by limonite. From 6-8m there is some graphite making Graphitic Argillite. Pyrite is completely oxidized to MgO2 or on some chips to iron oxide show as limonite specks. Pyrite seen very fine-grained; hard to tell with MgO2 pyrite.
15.00	19.00	Siltstone (Steel Formation) C0, S1-S3, P4, tr Lm Medium grey Siltstone (Steel Formation). Medium soft. Some clay in interval as coating (had to wash chips more). Limonite is rare. Only seen on Qtz veining and Qtz chips. Chips are slightly "pitted". Pyrite is oxidized to MgO2 and seems to be around Qtz veinlets mostly in fine-grained blebs. No reaction to HCl. From 16-18m there are about 5% rust red silicified chips which almost look like rust/red jasper. Pyrite is oxide to MgO2 as blebs on the "rust/red" chips also.
19.00	28.00	Intermediate Lithic Tuff C0-C1, S1-S3, P4, 1-2% Lm Orange to orange-brown Intermediate Lithic Tuff. Pervasive limonite on MTUFF; stronger limonite on some fracture surfaces and "infill" in pits. Fairly soft. Very slight reaction to HCl after a few seconds. A few Qtz chips seen in the interval. Pyrite is completely oxidized to MgO2; fine-grained blebs dominantly on fracture surfaces. Dark grey black to black Graphitic Argillite. Limonite occurs on fracture surfaces. Graphitic Argillite is quite siliceous almost cherty. No pyrite seen; either completely oxidized to MgO2 or not present. No reaction on Graphitic Argillite.
28.00	36.00	Intermediate Lithic Tuff C2, S1, P3-P4, tr Py, tr -1% Lm Grey/green to orange Intermediate Lithic Tuff. Limonite pervasive on some chips (about 50/50 in 28-30m). Limonite also occurs on Qtz and fracture surfaces. Less limonite lessons down-hole. Quartz occurs as veinlets and a few Qtz chips occur. Fairly strong reaction to HCl. On Qtz chips which are on grey/green chips, no limonite occurs. Pyrite is oxidized to MgO2 as fine-grained small blebs. There is some fine-blebs that are not quite completely oxidized to MgO2 (only rim).

*** END OF HOLE *** 36.00

HOLE NO: RC97-1947	SECTION:19738.1	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RE

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 56.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	17/12/97
Date finished:	17/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	ROB BREMNER

*** COLLAR COORDINATES AND RL ***

NOMINAL	20882.90mN	19738.10mE	996.10RL
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Pre-collar depth: Final depth: 56.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: 43M
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	256.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	6.00	GRAPHITIC ARGILLITE
6.00	16.00	INTERMEDIATE LITHIC TUFF
16.00	18.50	GRAPHITIC ARGILLITE
18.50	50.00	SILTSTONE (STEEL FORMATION)
50.00	56.00	SHALE
56.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	Colluvium
4.00	6.00	Graphitic Argillite C0, S1, P4, 2% Lm Black Graphitic Argillite. Heavy limonite on fracture surfaces and creates "coating" on Graphitic Argillite chips. Limonite occurs as limonite specks also. On fracture surfaces the limonite is yellow/orange and as specks are orange/red. No reaction to HCl. Graphitic Argillite is slightly silicified by flooding and some Qtz veining occurs. Pyrite is completely altered to iron oxide or manganese oxide; fine-grained blebs and disseminated iron oxide specks.
6.00	16.00	Intermediate Lithic Tuff C2, S1, P4, 1-3% Lm Grey/green to orange/brown Intermediate Lithic Tuff. Limonite occurs pervasively on over half of the chips (orange/brown). Limonite also occurs on fracture surfaces and as "infill" in pits stronger than the pervasive limonite. Limonite is stronger in 6-8m and less in the rest of the interval. Strong reaction to HCl after a few seconds. There is some Qtz chips within the interval. Pyrite occurs as fine-grained blebs on fracture surfaces oxidized to MgO2 dominantly; MgO2 blebs also occur on chips. Perhaps some "infill" could be pyrite oxidized to iron oxide.
16.00	18.50	Graphitic Argillite C0, S1, P4, tr Lm Dark grey/black Graphitic Argillite. Limonite occurs on fracture surfaces but only partially covers surface and also occurs as specks. No reaction to HCl. Some Qtz chips occur but are highly covered by limonite. Pyrite is completely oxidized to iron oxide on the Qtz chips and also as fine-grained disseminated specks on the Graphitic Argillite chips. Chips moderately graphitic.
18.50	50.00	Siltstone (Steel Formation) C0, S1, P4, tr -1% Lm Medium to dark grey/black Siltstone (Steel Formation). Non-calcareous. Limonite occurs on fracture surfaces of chips, as limonite specks and also is pervasive on some chips to 32m. Qtz occurs as chips and as very fine veinlets through some chips. The veinlets are stained orange by limonite. Pyrite is completely oxidized to iron oxide as fine-grained specks and perhaps blebs on some of the fracture surfaces that are covered in limonite. The limonite lessens to very trace from 36m to 50m; also the specks lessen down-hole.
50.00	56.00	Shale C0, S1, P4, tr Lm Grey/black Shale. Graphitic. Limonite occurs on some fracture surfaces and some fine-grained specks and as staining on Qtz veinlets. A few Qtz chips occur in 54-56m but not stained by limonite. Pyrite is oxidized to iron oxide fine-grained disseminated specks on some chips. Non-calcareous

*** END OF HOLE *** 56.00

HOLE NO: RC97-1948	SECTION: 17030	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	50.00	5.25	
Drill contractor:	MIDNIGHT SUN			
Drill rig:	SCHRAMM			
Date started:	13/9/07			
Date finished:	14/9/97			
Logged by:	J HANSON			
Relogged by:				
Sampled by:	CLAY & ROB			

*** COLLAR COORDINATES AND RL ***

SURVEYED	21410.00mN	17030.00mE	784.30RL
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Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 6
 Top of fresh rock: 6
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	50.00	CHERT
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Colluvium Overburden
2.00	50.00	Chert C0, S1, P4, tr Lm Black chert with limonite on most fracture surfaces to a depth of 6m, below that rock is fresh, or may occasionally have trace limonite on fracture surfaces 12-20, and 28-32. Chips are hard, with sharp edges, and weakly graphitic. White quartz stockwork and chips to 42; none below that. Limonitic Altered Quartz Monzonite at 8-10 (not mentioned in quick log)

*** END OF HOLE *** 50.00

HOLE NO: RC97-1949	SECTION:17075	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	40.00	5.25	
Drill contractor:	MIDNIGHT SUN			
Drill rig:	SCHRAMM			
Date started:	14/9/97			
Date finished:	14/9/97			
Logged by:	J HANSON			
Relogged by:				
Sampled by:	ROB			

*** COLLAR COORDINATES AND RL ***
 SURVEYED 21494.40mN 17075.30mE 796.20RL

Pre-collar depth: 50 Final depth: 40.00
 Purpose of hole: EXPLORATION
 Hole status: SHORTENED 10M
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	1.00	COLLUVIUM
1.00	16.00	CHERT
16.00	24.00	GRAPHITIC SHALE
24.00	40.00	GRAPHITIC SHALE
40.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	1.00	Colluvium Fill
1.00	16.00	Chert C0, S1, P4, 1% Lm Black chert is very fractured and has strong orange limonite on many fracture surfaces , as well as clay on most chips. Weak quartz stockwork (quartz chips) ; most 14-16. Chert is interbedded with tan weathered siltstone below 10m.
16.00	24.00	Graphitic Shale C0, S1, P4, tr Lm Dark grey shale has limonite on few chips. Shale becomes softer with depth, and chips are easily broken or crushed. Trace quartz stockwork (quartz chips). Non calcareous .
24.00	40.00	Graphitic Shale C1, S1, P4, tr Lm Very few chips in washed samples ; possible fault here. Chips are very soft. Shale is very weakly calcareous , and there is weak quartz stockwork (quartz chips). Limonite is on fracture surfaces throughout unit.

*** END OF HOLE *** 40.00

From	To	Geological Log
0.00	2.00	Colluvium Fill
2.00	10.00	Graphitic Argillite 75:25 Sandstone C0, S1, P4, tr Lm Argillite is very silty and has white clay development on most surfaces. It is interbedded with dark grey and brownish silty Sandstone 6-8. Weak quartz stockwork and chips 2-6 ; none below that. Limonite is on most surfaces.
10.00	12.00	Argillite C0, S0, P4, tr Lm Very large chips of Argillite have smooth surfaces, and sharp edges. Trace limonite on few fracture surfaces . Non calcareous .
12.00	42.00	Argillite 90:10 Graphitic Argillite C3, S1-S0, P4,P1, tr py, tr Lm Black Argillite is intensely calcareous , both over matrix and trace quartz calcite stockwork . Chips are very hard, and have smooth sides and sharp edges. Occasional beds of non calcareous Graphitic Argillite ; very graphitic. Trace limonite on very few fracture surfaces throughout, most at 24-26. Trace very fine grained tarnished py on very few fracture surfaces . 24-26 veinlets of fresh py , with reddish limonite on outer edges.

*** END OF HOLE *** 42.00

HOLE NO: RC97-1951	SECTION: 15950	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	15/9/97
Date finished:	15/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 48
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	1.00	COLLUVIUM
1.00	7.00	GRAPHITIC ARGILLITE
7.00	18.00	GRAPHITIC SHALE
18.00	37.50	GRAPHITIC SHALE
37.50	38.00	LIMONITIC QUARTZ MONOZITE
38.00	48.00	GRAPHITIC SHALE
48.00	50.00	LIMONITIC ALTERED QUARTZ MONZONITE
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	1.00	Colluvium Fill
1.00	7.00	Graphitic Argillite C0, S1, P4, tr Lm Graphitic Argillite is very silty, and has white clay on many surfaces. Trace white quartz stockwork , or quartz chips. Limonite is on many fracture surfaces .
7.00	18.00	Graphitic Shale C0, S1, P4, P2, tr py, 1% Lm Shale is mostly brown and silty, and occasionally dark grey. Most chips have flat surfaces where shale has broken along bedding. Shale is very soft and chips are easily broken with fingernail ; harder where silicified with trace quartz stockwork . Non calcareous . Most fracture surfaces have limonite , few have very fine grained fresh py visible under limonite (8-10)
18.00	37.50	Graphitic Shale C2, S1, P4, 2% Lm Shale differs from above unit as it has an immediate and strong reaction to HCl . Most chips are silty and brown, and are very soft. Limonite is on most fracture surfaces , and 10% very fine grained disseminated py has been completely oxidized to limonite . Weakly silicified from quartz calcite stockwork , and quartz calcite chips from larger quartz veins. Limonite often on outer edges of quartz .
37.50	38.00	Limonitic Quartz Monozite C1, S1, P4, tr py, 6% Lm dark orange /brown Limonitic Quartz Monozite has abundant unaltered black biotite , with a few large (5mm) loose biotite crystals. (Possibly Limonitic Biotite Monzonite). Weakly calcareous , and silicified with translucent quartz chips from quartz veins. Trace very fine grained fresh py within one biotite pseudomorphs .
38.00	48.00	Graphitic Shale C2, S1, P4, 2% Lm Same as shale 18-36. Immediately and strongly calcareous . Most chips brown, very soft, and with limonite on most fracture surfaces . Very fine grained disseminated py has been altered to limonite . 42-44 shale is grey with only trace limonite on fracture surfaces . Rare white quartz stockwork and quartz chips.
48.00	50.00	Limonitic Altered Quartz Monzonite 70:30 Limonitic Quartz Monozite C1, S1, P0, P1, 2% py, 3% Lm Very light orange /brown Limonitic Altered Quartz Monzonite has very weak limonite alteration. Biotite altered to white micas and coated with patchy limonite . Rarely, biotite has altered to very fine grained fresh py , or py strongly altered to manganese oxide. Feldspars are mostly unaltered, occasionally moderately altered to clay. Light, or dark grey Altered Quartz Monzonite , and Limonitic Quartz Monozite , have 2% disseminated fine grained and coarse grained py fresh or tarnished .

*** END OF HOLE *** 50.00

HOLE NO: RC97-1952 SECTION: 15950 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 60.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	15/9/97
Date finished:	15/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB

*** COLLAR COORDINATES AND RL ***
 NOMINAL 0.00mN 0.00mE 0.00RL

Pre-collar depth: 60 Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	8.00	COLLUVIUM
8.00	16.00	GRAPHITIC SHALE
16.00	22.00	GRAPHITIC SHALE
22.00	24.50	LIMONITIC QUARTZ MONOZITE
24.50	32.00	GRAPHITIC SHALE
32.00	33.00	LIMONITIC ALTERED QUARTZ MONZONITE
33.00	36.00	ARGILLITE
36.00	39.00	QUARTZ MONZONITE
39.00	44.00	LIMONITIC ALTERED QUARTZ MONZONITE
44.00	50.00	SHALE
50.00	55.00	SILTSTONE (EARN GROUP)
55.00	60.00	SHALE
60.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	8.00	Colluvium Fill
8.00	16.00	Graphitic Shale C0, S0-S1, P4, P3, P2, 2% py, 2% Lm Shale is mostly brown ; 1/3 chips are grey. Chips are broken along bedding planes and are flat. Very soft and easily broken chips. Limonite on many fracture surfaces , and 10% disseminated py has been completely altered to limonite ; however on some fracture surfaces ,10-16, very fine grained moderately oxidized py is visible. Trace manganese oxide on fracture surfaces from intensely , or strongly oxidized py . Non calcareous , and weakly silicified with white quartz stockwork and chips ; most at 14-16. Quartz often has limonite on outer edges.
16.00	22.00	Graphitic Shale C2, S1, P4,P2, tr py, 2% Lm Shale is as above unit, except it is strongly calcareous . Most brown chips are at upper contact ; below that approx. 1/ 3 chips are grey. Limonite is on many fracture surfaces , and trace manganese oxide on these fracture surfaces as well. Very fine grained disseminated py has been completely oxidized to limonite . Few fracture surfaces are coated with very fine grained moderately oxidized py. White, or frequently limonite stained quartz is strongly calcareous .
22.00	24.50	Limonitic Quartz Monozite 90:10 Limonitic Altered Quartz Monzonite C1, S0, P4, 4% Lm Limonitic Quartz Monozite has fresh, to moderately altered black biotite , and feldspars are weakly to moderately clay altered and stained orange with limonite . Weakly calcareous . 10% chips are Limonitic Altered Quartz Monzonite with very weak limonite alteration. Trace manganese oxide from intensely oxidized py on fracture surfaces of Limonitic Altered Quartz Monzonite .
24.50	32.00	Graphitic Shale C3, S1, P4, P2, tr py, 1% Lm Very graphitic grey and brown shale has less limonite than above units of limonite . Chips are somewhat harder here. Very fine grained disseminated py is completely oxidized to limonite , and weak limonite is on many fracture surfaces . Few fracture surfaces are coated with very fine grained moderately oxidized py . Unit silicified with white and translucent quartz chips. Shale is intensely calcareous .
32.00	33.00	Limonitic Altered Quartz Monzonite 90:10 Altered Quartz Monzonite C1, S0, P3-P0, 2% py, 3% Lm Very light orange /brown Limonitic Altered Quartz Monzonite with weak limonite alteration. Biotite has altered to silver mica, or patchy limonite . Feldspars are mostly unaltered ; may occur weakly clay altered. Chips are weakly calcareous . 2% disseminated coarse grained and fine grained py is mostly fresh or tarnished , or may be moderately oxidized . Cube py may be tarnished , or strongly oxidized to iron oxide. Light grey Altered Quartz Monzonite with fresh disseminated coarse grained or fine grained py .
33.00	36.00	Argillite C1, S2, P4, 1% Lm Argillite is very brecciated , and siliceous from white quartz stockwork and quartz flooding of interstitial and fracture spaces. Yellowish clay is on most surfaces, and limonite is also on many fracture surfaces , and stains quartz . Argillite is weakly calcareous .
36.00	39.00	Quartz Monzonite 80:20 Limonitic Quartz Monozite C2, S1, P3, P1, P0, tr py, 3% Lm Dark grey Quartz Monzonite with abundant fine grained unaltered black biotite ; rarely altered to very fine grained fresh py . Light orange /brown Limonitic Quartz Monozite has black biotite , and unaltered feldspars ; however 38-39 most biotite have altered to py which has been strongly oxidized to manganese oxide. Trace fresh or tarnished fine grained py here as well. Quartz Monzonite is moderately calcareous , and has trace quartz stockwork .
39.00	44.00	Limonitic Altered Quartz Monzonite 70:30 Limonitic Quartz Monozite C1, S0, P4, P3, tr py, 3% Lm Very light brown Limonitic Altered Quartz Monzonite has very weak limonite alteration. Few white micas, and feldspars are moderately clay altered. Tan colored Limonitic Quartz Monozite has fresh black biotite , and very weak limonite alteration. Trace py on fracture surfaces of Limonitic Altered Quartz Monzonite has been intensely , or strongly oxidized to manganese oxide. Rare coarse grained py is intensely oxidized . Chips are weakly calcareous . Narrow unit shale 40-42.

From	To	Geological Log
44.00	50.00	Shale C1, S1-S3, P4, 2% Lm Brown weathered, and grey graphitic shale is very soft and chips are easily broken with fingernail. Disseminated fine grained py has been completely oxidized to limonite. Limonite is also on many fracture surfaces. White quartz stockwork increases from trace to 25% at bottom contact. Chips and stockwork are weakly calcareous.
50.00	55.00	Siltstone (Earn Group) C1, S2-S3, P4, tr Lm Grey Siltstone (Earn Group) is strongly silicified with white and limonite stained stockwork, and quartz chips from larger veins. Limonite is on few fracture surfaces; most at the bottom contact. Very weak and delayed reaction to HCl.
55.00	60.00	Shale C2, S1-S2, P4, 1% Lm Brown weathered, or grey graphitic shale chips are very soft and easily broken with a fingernail. (Grey chips slightly harder). Fine grained disseminated py is completely oxidized to limonite, and limonite is on few fracture surfaces or between bedding. Unit is strongly silicified at upper contact with white or limonite stained quartz stockwork and quartz chips; trace stockwork 58-60. Shale is moderately calcareous.

*** END OF HOLE *** 60.00

HOLE NO: RC97-1953 SECTION: 15225 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	15/9/97
Date finished:	15/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	CLAY

*** COLLAR COORDINATES AND RL ***
 NOMINAL 0.00mN 0.00mE 0.00RL

Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: SAMPLES VERY "POWDERY"

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	5.00	COLLUVIUM
5.00	17.00	SHALE
17.00	23.50	ARGILLITE
23.50	31.00	LIMONITIC ALTERED QUARTZ MONZONITE
31.00	40.00	ARGILLITE
40.00	41.50	LIMONITIC ALTERED QUARTZ MONZONITE
41.50	46.00	ARGILLITE
46.00	47.00	LIMONITIC ALTERED QUARTZ MONZONITE
47.00	50.00	ARGILLITE
50.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	5.00	Colluvium Overburden
5.00	17.00	Shale 40:60 Argillite C0, S1, P4, tr Lm Soft, brown or grey, silty shale is interbedded with much harder Argillite (occasionally chert -like). 5% chips a very light tan color, and are almost entirely clay altered. 8-10 these chips have brecciated fragments of Argillite within this clay matrix. Drill tech reported samples were very powdery. Trace white quartz stockwork throughout. Limonite on many surfaces of shale, Argillite, and quartz.
17.00	23.50	Argillite 80:20 Sandstone C0, S1, P4, 1% Lm Very silty and limonite coated Argillite is interbedded with brownish Sandstone, also with limonite on many surfaces. Silicified with white quartz stockwork and quartz flooding of fracture spaces in Argillite. 5% chips very strongly clay altered as above unit. Drill tech reported samples were very powdery.
23.50	31.00	Limonitic Altered Quartz Monzonite C0, S1, P4, tr py, 5% Lm Medium to light orange /brown Limonitic Altered Quartz Monzonite ;slightly lighter in color at bottom contact. Weak limonite alteration ; more intense on some fracture surfaces. Most biotite has altered to limonite, there are few white micas, and rare very fine grained fresh py within biotite pseudomorphs. Moderate argillic alteration of feldspars in most chips ; alteration weaker at bottom contact. Weakly silicified with translucent quartz stockwork or quartz chips from larger veins. 24-26 one chip with quartz stockwork on fracture surfaces has development of euhedral quartz crystals. Trace manganese oxide from intensely oxidized py on fracture surfaces
31.00	40.00	Argillite C0, S1-S2, P4, tr Lm Argillite chips are very hard with localized minor chert units. Silicified with weak quartz stockwork or quartz chips throughout ; more strongly at bottom contact. Narrow unit very soft shale at upper contact. Limonite on many fracture surfaces, and on quartz.
40.00	41.50	Limonitic Altered Quartz Monzonite C0, S1, P4, 5% Lm Dull orange /brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration. No micas, and fine grained feldspars are moderately clay altered. Trace translucent quartz stockwork, and quartz chips. No manganese oxide, and no sulphides.
41.50	46.00	Argillite C0, S1, P4, tr Lm Argillite, with few chips weakly graphitic, is very hard. 5% chips very light grey are strongly clay altered, and easily crushed. Yellowish clay on few surfaces. Limonite on few fracture surfaces. Silicified with white quartz stockwork and quartz chips ; most at upper contact.
46.00	47.00	Limonitic Altered Quartz Monzonite C0, S0, P4, 5% LM True thickness ?? Drill tech did not report this unit of Limonitic Altered Quartz Monzonite. Unit is a dull orange /brown with pervasive limonite alteration, no micas, and moderate alteration of fine grained feldspars, giving it a somewhat granular appearance. No manganese oxide, no sulphides.
47.00	50.00	Argillite C0, S1, P4, tr Lm Argillite is very weakly silicified with fine quartz stockwork. Limonite and yellowish clay on few fracture surfaces. 5% chips very soft light grey clay altered Argillite.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1954	SECTION:16175	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	40.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	16/9/97		
Date finished:	16/9/97		
Logged by:	J HANSON		
Relogged by:			
Sampled by:	CLAY		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: 40 Final depth: 40.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	10.00	ARGILLITE
10.00	13.50	LIMONITIC ALTERED QUARTZ MONZONITE
13.50	16.00	SHALE
16.00	22.00	ARGILLITE
22.00	34.00	ARGILLITE
34.00	40.00	ARGILLITE
40.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	10.00	Argillite C0, S1, P4, tr Lm Argillite is very silty , and has limonite on few fracture surfaces . 5% chips are light grey, and strongly to moderately clay altered. Few chips 0-4. Drill tech reported all samples from drillhole were fine grained and powdery. Weak quartz stockwork throughout.
10.00	13.50	Limonitic Altered Quartz Monzonite C0, S0, P4, tr py, 4% Lm Dull orange /brown Limonitic Altered Quartz Monzonite with weak limonite alteration. No micas, trace very fine grained fresh py within biotite pseudomorphs . Fine grained feldspars are moderately clay altered. No manganese oxide or visible sulphides.
13.50	16.00	Shale C0, S1, P4, tr Lm All chips are light grey, clay altered and very soft. Weak silicification from white quartz chips. Limonite on few fracture surfaces . Trace manganese oxide, and iron oxide on fracture surfaces .
16.00	22.00	Argillite C0, S1, P4, 1% Lm Argillite is very silty and there is clay and limonite on most surfaces ; limonite very strong on some fracture surfaces . Few chips are strongly clay altered and very soft. Very few quartz chips.
22.00	34.00	Argillite C1, S1-S0, P4, tr Lm Argillite is calcareous ; strongly calcareous at 24-26. Very large chips 24-28 , and unwashed sample is fine grained and wet 24-34 ; possible fault. Weak silicification from white quartz chips ; most 30-34.
34.00	40.00	Argillite C0, S1, P4, tr Lm Chips have very little clay or limonite on surfaces here, and rock appears fresher than above units of Argillite . Most chips are very hard but there are still trace amounts of very strongly clay altered chips. Weak silicification from white quartz chips from quartz veins.

*** END OF HOLE *** 40.00

HOLE NO: RC97-1955	SECTION: 16175	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	16/9/97
Date finished:	16/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	CLAY & ROB

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: SAMPLES HERE WERE VERY "POWDERY"

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	24.00	ARGILLITE
24.00	28.00	LIMONITIC ALTERED QUARTZ MONZONITE
28.00	30.00	ARGILLITE
30.00	34.50	LIMONITIC ALTERED QUARTZ MONZONITE
34.50	37.00	ARGILLITE
37.00	38.50	LIMONITIC ALTERED QUARTZ MONZONITE
38.50	48.00	ARGILLITE
48.00	50.00	SHALE
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Colluvium Overburden
2.00	24.00	Argillite 80:20 Shale C0,S1,P4,tr Lm Argillite is interbedded with minor units shale. Most chips have clay on surfaces, and shale is very strongly altered and soft. Drill tech reported samples here were all powder. Limonite on few fracture surfaces ; most occurs at bottom of unit. Trace white quartz chips throughout.
24.00	28.00	Limonitic Altered Quartz Monzonite C1,S1,P4,6% Lm Medium orange /brown , to bright orange Limonitic Altered Quartz Monzonite with moderate to strong limonite alteration. Few white micas, and fine grained feldspars matrix is moderately clay altered. Bright orange chips are feldspars phenocrysts that are strongly clay altered and stained with limonite . Weak silicification from quartz flooding, and translucent or limonite stained quartz chips ; most at upper contact. No manganese oxide , and no sulphides.
28.00	30.00	Argillite C0, S0, P4, tr py Argillite has yellowish clay on most surfaces, and strong limonite on many fracture surfaces .
30.00	34.50	Limonitic Altered Quartz Monzonite 50:50 Argillite C0, S1, P4, 6% Lm Light to medium orange /brown Limonitic Altered Quartz Monzonite is interbedded with Argillite . Limonitic Altered Quartz Monzonite has moderate limonite alteration, much stronger on some fracture surfaces . Few micas, and fine grained feldspars are strongly clay altered, giving chips a granular appearance. Chips are very brittle and easily broken, except where weakly quartz flooded. Traces of manganese oxide from intensely oxidized py on fracture surfaces . Argillite has yellowish clay on most surfaces, and limonite on many fracture surfaces . Unit is silicified with translucent quartz chips from veins.
34.50	37.00	Argillite C0, S0, P4, tr Lm Argillite , with minor units black chert, has limonite on few fracture surfaces . <5% Argillite are strongly clay altered and chips are easily crushed.
37.00	38.50	Limonitic Altered Quartz Monzonite 80:20 Argillite C0, S0, P4, 6% Lm Medium orange /brown Limonitic Altered Quartz Monzonite has pervasive limonite alteration, no micas, and fine grained feldspars strongly altered to clay. Chips are easily crushed. Igneous texture has been overprinted by alterations. No manganese oxide or sulphides. Interbedded at 38.2 with Argillite that has traces of clay on most surfaces, as well as limonite on many fracture surfaces .
38.50	48.00	Argillite C0, S0-S1, P4, tr Lm Argillite has minor units of black chert. Most surfaces have traces of yellowish clay, and limonite is on many fracture surfaces , most at 46-48. Very few chips 44-46 ; possible fault. Very weak silicification from white quartz stockwork or quartz chips.
48.00	50.00	Shale C0, S0, P4 1% Lm Grey shale is very soft and chips are easily crushed. Fine grained disseminated py has been completely oxidized to limonite , and weak limonite is on few fracture surfaces .

*** END OF HOLE *** 50.00

HOLE NO: RC97-1956

SECTION: 16075

GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 60.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	16/9/97
Date finished:	16/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: 60 Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: HAMMER STUCK AT 50M

Material left in hole: NONE
 Base of complete oxidation 50
 Top of fresh rock: 54
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	10.00	COLLUVIUM
10.00	16.00	ARGILLITE
16.00	32.00	SHALE
32.00	60.00	GRAPHITIC SHALE
60.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	10.00	Colluvium Overburden
10.00	16.00	Argillite C0, S2-S1, P4, tr Lm Very few chips 14-16 ;still overburden??or fault ? 10-12 Argillite is strongly silicified with white quartz chips, stockwork, and flooding of quartz into interstitial and fracture spaces. Limonite is on few fracture surfaces .
16.00	32.00	Shale C0, S1, P4, 2% Lm Most chips are flat where they have broken along bedding planes. Majority of chips have weathered brown, and are very soft and easily crushed ; more grey and unweathered and graphitic near bottom contact. Limonite is on most fracture surfaces throughout. Very weakly silicified from white quartz chips. Trace manganese oxide on fracture surfaces .
32.00	60.00	Graphitic Shale C2, S1, P4, P1, P0, tr py, 1% Lm Unit differs from above Shale as it is strongly calcareous , and that the rock appears much fresher here. The unweathered chips are strongly graphitic. The majority of chips are medium grey, and become very dark with depth. Chips are somewhat harder, but still easily crushed to a depth of 52m. Fine grained disseminated py is oxidized to limonite , and limonite is on many fracture surfaces, or on outer edges of quartz stockwork to a depth of 52m. Rock appears fresh below that. Trace tarnished coarse grained py 50-52 , and trace fresh coarse grained py 52-54.

*** END OF HOLE *** 60.00

HOLE NO: RC97-1957 SECTION: 16075 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST BIG ROCK
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 78.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	16/9/97
Date finished:	16/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB & CLAY

*** COLLAR COORDINATES AND RL ***

NOMINAL	21670.00mN	16075.00mE	0.00RL
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Pre-collar depth: 60 Final depth: 78.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 18M
 Comments: EXTENDED 18M AS STILL IN LAQM

Material left in hole: NONE
 Base of complete oxidation: 68
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	3.00	COLLUVIUM
3.00	4.00	LIMONITIC ALTERED QUARTZ MONZONITE
4.00	14.00	SHALE
14.00	44.50	GRAPHITIC SHALE
44.50	47.50	LIMONITIC ALTERED QUARTZ MONZONITE
47.50	52.00	GRAPHITIC SHALE
52.00	58.50	LIMONITIC ALTERED QUARTZ MONZONITE
58.50	59.50	GRAPHITIC ARGILLITE
59.50	68.00	LIMONITIC ALTERED QUARTZ MONZONITE
68.00	68.50	ARGILLITE
68.50	71.00	LIMONITIC ALTERED QUARTZ MONZONITE
71.00	72.00	QUARTZ MONZONITE
72.00	74.00	ALTERED QUARTZ MONZONITE
74.00	74.50	LIMONITIC ALTERED QUARTZ MONZONITE
74.50	78.00	ALTERED QUARTZ MONZONITE
78.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	3.00	Colluvium Overburden
3.00	4.00	Limonitic Altered Quartz Monzonite Drilltech reported Limonitic Altered Quartz Monzonite ; no chips in washed sample- still overburden??
4.00	14.00	Shale C0, S1, P4, tr Lm shale is very brown and soft ; chips are easily crushed. No chips 4-8 ; still overburden?? limonite is is on few fracture surfaces , or is between bedding. Trace manganese oxide from intensely oxidized py .
14.00	44.50	Graphitic Shale C2, S1, P4, 2% Lm Shale is very weathered, brown and soft. Rock becomes somewhat fresher with depth ; below 26m chips are harder, less weathered, grey, and graphitic. Shale is moderately to strongly calcareous , with an instant reaction to HCl. Silicified with white quartz stockwork . Limonite is on many fracture surfaces , most above 26m
44.50	47.50	Limonitic Altered Quartz Monzonite C1, S1, P4-P3, tr py, 6% Lm Medium orange /brown Limonitic Altered Quartz Monzonite has pervasive limonite alteration. No micas, and fine grained feldspars matrix has been strongly clay altered ; chips are brittle and can be broken. Weakly silicified with trace white quartz stockwork , and a delayed and barely audible reaction to HCl. Fine grained py , and py on outer edges of quartz stockwork has been mostly intensely oxidized , few have been strongly oxidized.
47.50	52.00	Graphitic Shale C2, S1-S2, P4, 1% py Shale is the same as above unit ; soft, grey, graphitic, and strongly calcareous . Silicification is strongest at the bottom contact with fine quartz stockwork , quartz flooding into fracture spaces, and quartz chips from larger veins.
52.00	58.50	Limonitic Altered Quartz Monzonite C1, S1, P4-P3, tr py, 5% Lm Most chips in this unit of Limonitic Altered Quartz Monzonite are a light to medium orange /brown ; however 1/3 of chips at upper contact are dark orange. No micas above 54m and below that there are few micas, often coated with limonite . Strong argillic alteration of feldspars , giving matrix a granular appearance and chips are brittle and easily broken. Weakly calcareous . Weak silicification with trace fine quartz stockwork . Most quartz is at bottom contact 56-59 ; translucent quartz chips and stockwork . Fine grained disseminated py and py along fracture surfaces has mostly been intensely , or else strongly oxidized to manganese oxide. Coarse grained and cube disseminated py is strongly oxidized to iron oxide.
58.50	59.50	Graphitic Argillite C0, S2, P4, tr Lm Graphitic Argillite is moderately silicified with translucent quartz stockwork and localized quartz flooding of interstitial and fracture spaces . Argillite is harder and less graphitic where more siliceous. Limonite is on few fracture surfaces , or coating quartz .
59.50	68.00	Limonitic Altered Quartz Monzonite 80:20 Altered Quartz Monzonite C1, S1, P4, P1, tr py, 5% LM Medium orange /brown Limonitic Altered Quartz Monzonite is least altered at upper contact (60-62) ; below that limonite alteration is pervasive , and argillic alteration of feldspars is strong , or locally intensely , and granular matrix is very easily crushed. Fine grained py is intensely oxidized to manganese oxide. 60-62 1% fine grained py occurs tarnished . Trace fine clear quartz stockwork 62-66. Chips are weakly to moderately calcareous over matrix. Light grey Altered Quartz Monzonite has moderately altered brown biotite and trace fresh or tarnished fine grained py . Strong clay alteration of feldspars rich matrix here as well.
68.00	68.50	Argillite C0, S1, P4, tr py Argillite is silicified with quartz stockwork , and minor quartz flooding into fracture spaces. Limonite is on few fracture surfaces .
68.50	71.00	Limonitic Altered Quartz Monzonite C1, S0, P2-P1, 1% py, 5% Lm Medium to light orange /brown Limonitic Altered Quartz Monzonite has moderate limonite alteration, occasionally patchy. Strong argillic alteration of fine grained feldspars matrix, and no remaining micas. Coarse grained and cube py has been poorly oxidized , and occurs mostly tarnished , or moderately oxidized . Chips are weakly calcareous .

From	To	Geological Log
71.00	72.00	Quartz Monzonite C1, S0, P0, tr py Light grey Quartz Monzonite has fresh, to weakly altered brown, or sometimes black biotite . Rarely, biotite has altered to very fine grained fresh py . Matrix is weakly calcareous .
72.00	74.00	Altered Quartz Monzonite 50:50 Quartz Monzonite C1, S1, P0, 1% py, 1% Lm Very light grey Altered Quartz Monzonite has strong clay alteration and chips can be broken or crushed. Silicified with clear quartz eyes. Fine grained and coarse grained py is fresh, as well as very fine grained py within rare biotite pseudomorphs . Dark grey Quartz Monzonite has abundant black biotite , strong clay alteration as well, and is moderately calcareous . 10% chips have pervasive limonite alteration .
74.00	74.50	Limonitic Altered Quartz Monzonite C1, S0, P3, P2-P1, 2% py, 5% Lm Medium orange /brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration, no micas, and moderate clay alteration. Weakly calcareous over matrix. Trace fine grained py is strongly oxidized . Large cube py , and small disseminated coarse grained py is moderately oxidized , or tarnished .
74.50	78.00	Altered Quartz Monzonite C1, S0, P3, P0, tr py, 3% Lm Everything here ; Light orange /brown Limonitic Altered Quartz Monzonite and Limonitic Quartz Monzonite , white Altered Quartz Monzonite and dark grey Quartz Monzonite - contamination??

*** END OF HOLE *** 78.00

HOLE NO: RC97-1958	SECTION: 15220	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST GRID
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	50.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	17/9/97		
Date finished:	17/9/97		
Logged by:	J HANSON		
Relogged by:			
Sampled by:	CLAY		

*** COLLAR COORDINATES AND RL ***

NOMINAL	21895.00mN	15220.00mE	0.00RL
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Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	8.00	LIMONITIC ALTERED QUARTZ MONZONITE
8.00	11.50	ARGILLITE
11.50	33.00	SHALE
33.00	38.00	LIMONITIC QUARTZ MONOZITE
38.00	50.00	SHALE
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	8.00	<p>Limonitic Altered Quartz Monzonite C2, S1, P4, 6% Lm Medium orange /brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration, no micas, and weak argillic alteration of feldspars . Chip matrix, as well as translucent quartz stockwork is strongly calcareous , with an instant audible and visible reaction to HCl. Abundant manganese oxide from intensely oxidized py is disseminated ,on fracture surfaces , or on outer edges of quartz stockwork (6-8).</p>
8.00	11.50	<p>Argillite C0, S1, P4, tr Lm Argillite is very hard, with rough sides and sharp edges. Limonite , or a yellowish clay, is on few fracture surfaces . Unit is silicified with white quartz stockwork , and quartz flooding of fracture spaces.</p>
11.50	33.00	<p>Shale C2, S1, P4, 1% Lm Shale has broken along bedding planes into thin flat chips. Almost all are very soft and weathered brown. Below 28m 1/3 of shale is fresher ; dark grey, harder, and strongly graphitic. Unit is silicified with up to 10% quartz stockwork , and chips and quartz stockwork are strongly calcareous , with an immediate audible and visible reaction to HCl . Limonite is on many chips, and on outer edges of quartz stockwork as well.</p>
33.00	38.00	<p>Limonitic Quartz Monozite 90:10 Limonitic Altered Quartz Monzonite C1, S1, P4, 6% Lm Dark orange /brown Limonitic Quartz Monozite has pervasive limonite alteration and abundant fine grained black biotite (Biotite Monzonite ?). Unit is silicified with clear and translucent quartz stockwork ,and quartz chips from larger veins. Limonitic Quartz Monozite is calcareous over matrix as well as quartz stockwork . Light orange /brown Limonitic Altered Quartz Monzonite has traces of green mineral within altered biotite , and traces of manganese oxide from intensely oxidized py . Strong argillic alteration of fine grained feldspars matrix throughout both units ; chips are easily broken or crushed.</p>
38.00	50.00	<p>Shale C2, S1, P4, 1% Lm Same shale as above unit. Chips are mostly weathered brown and very soft. Shale is more grey, with only trace limonite below 44m, however it remains very soft. Very strongly calcareous over chip matrix and quartz stockwork .</p>

*** END OF HOLE *** 50.00

HOLE NO: RC97-1959 SECTION: 15220 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST GRID
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 40.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	17/9/97
Date finished:	17/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	CLAY

*** COLLAR COORDINATES AND RL ***

NOMINAL	21870.00mN	15220.00mE	0.00RL
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Pre-collar depth: 40 Final depth: 40.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 18
 Top of fresh rock: 30
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	4.50	LIMONITIC ALTERED QUARTZ MONZONITE
4.50	8.50	ARGILLITE
8.50	11.00	LIMONITIC ALTERED QUARTZ MONZONITE
11.00	14.00	ARGILLITE
14.00	15.50	LIMONITIC ALTERED QUARTZ MONZONITE
15.50	18.00	LIMONITIC QUARTZ MONOZITE
18.00	26.00	ARGILLITE
26.00	40.00	SHALE
40.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.50	Limonitic Altered Quartz Monzonite C1, S1, P4, 7% Lm Medium orange /brown , and 1/3 chips very dark brown Limonitic Altered Quartz Monzonite . Limonite alteration is pervasive , and argillic alteration is strong , giving matrix a granular appearance, and chips are easily broken. Silicified with clear quartz eyes, and weakly calcareous . Manganese oxide from intensely oxidized py is common. Drill tech reported this unit was in permafrost.
4.50	8.50	Argillite C0, S2-S1, P4, tr Lm Argillite is strongly silicified 4-6 with translucent quartz chips, stockwork, and quartz flooding of interstitial and fracture spaces. 6-8 silicified as well, but not as strongly. Limonite is on few fracture surfaces , and often coats quartz stockwork . Chips very hard, and chert-like at bottom contact.
8.50	11.00	Limonitic Altered Quartz Monzonite C0, S1, P4, 6% Lm Bright orange Limonitic Altered Quartz Monzonite with pervasive limonite alteration. Strong argillic alteration of feldspars rich matrix and chips can be easily broken. Weak silicification from clear quartz chips, which are often stained a light orange from limonite . Trace manganese oxide from intensely oxidized py .
11.00	14.00	Argillite C0, S2, P4, tr Lm Argillite is strongly silicified with translucent and white quartz chips, and flooding of interstitial and fracture spaces. Chips not so siliceous are graphitic. Limonite , and a yellowish clay are on few chip surfaces ; less so 12-14 and chip surfaces are cleaner here.
14.00	15.50	Limonitic Altered Quartz Monzonite C0, S2, P4, 5% Lm 1/3 of chips are quartz , or very strongly quartz flooded Limonitic Altered Quartz Monzonite and are stained a light orange color from limonite . Remaining chips are a medium orange /brown and have strong limonite and argillic alteration. These can be easily broken. Rare feldspars phenocryst is intensely altered to white clay. Trace manganese oxide from intensely oxidized py .
15.50	18.00	Limonitic Quartz Monozite 80:20 Limonitic Altered Quartz Monzonite C0, S0, P4, 4% Lm Limonitic Quartz Monozite has weak to moderate limonite alteration, and fine grained black biotite that is mostly fresh and unaltered ; occasionally moderately altered. Bright orange Limonitic Altered Quartz Monzonite has pervasive limonite alteration, and trace manganese oxide from intensely oxidized py .
18.00	26.00	Argillite C0, S2, P4, tr Lm Argillite is the same as above units of Argillite . It has been strongly silicified with quartz stockwork and flooding, and there is trace limonite on few surfaces. Where chips are not siliceous they are weakly graphitic.
26.00	40.00	Shale C0, C2, S1, P4, tr Lm Shale is brown and weathered with limonite 16-30 ; below that rock is fresh, dark grey, and has no limonite . Not calcareous at upper contact 26-28 where there is no quartz stockwork , however below that depth white quartz calcite stockwork occurs throughout, and chips are strongly calcareous . Immediate reaction to HCl on quartz calcite stockwork , and shale is audible and visible.

*** END OF HOLE *** 40.00

HOLE NO: RC97-1960 SECTION: 15220 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST GRID
 HOLE TYPE RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 40.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	17/9/97
Date finished:	17/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB

*** COLLAR COORDINATES AND RL ***
 SURVEYED 21854.10mN 15223.70mE 670.70RL

Pre-collar depth: 40 Final depth: 40.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-65.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	10.00	LIMONITIC ALTERED QUARTZ MONZONITE
10.00	18.50	LIMONITIC ALTERED QUARTZ MONZONITE
18.50	27.00	ARGILLITE
27.00	31.00	LIMONITIC ALTERED QUARTZ MONZONITE
31.00	32.00	LIMONITIC QUARTZ MONOZITE
32.00	34.00	LIMONITIC ALTERED QUARTZ MONZONITE
34.00	37.00	ARGILLITE
37.00	40.00	GRAPHITIC SHALE
40.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.00	Colluvium Overburden
2.00	10.00	<p>Limonitic Altered Quartz Monzonite C0, S1-S2, P4, 5% Lm Mostly light yellowish orange , with some darker orange /brown Limonitic Altered Quartz Monzonite (4-6). Limonite alteration is weak in light colored chips ; more intense in darker chips.</p> <p>Very few micas, or remnants of micas. Feldspars are occasionally strongly clay altered in very light colored chips, with void spaces where clay has been washed away. Unit is characterized by strong silicification. All chips appear to be siliceous. Translucent quartz veinlets , and quartz chips 2-4. Most siliceous 6-8, with 30% translucent and clear quartz chips from quartz veins, or quartz eyes. Abundant manganese oxide disseminated or on fracture surfaces of darker chips ; less common on lighter chips. Very few chips argillite 4-6.</p>
10.00	18.50	<p>Limonitic Altered Quartz Monzonite C0, S2, P4, 5% Lm Limonitic Altered Quartz Monzonite is slightly darker than above unit of Limonitic Altered Quartz Monzonite , and has more intense limonite alteration. 20% chips are very dark brown, with silvery micas. Strong argillic alteration of occasional feldspars phenocrysts. Moderate silicification of unit from quartz flooding in orange chips, quartz eyes , and translucent quartz chips. Very fine quartz stockwork 16-18. Manganese oxide from intensely oxidized fine grained pyrite, and pyrite on fracture surfaces . Flecks of reddish iron oxide from from intensely oxidized py as well.</p>
18.50	27.00	<p>Argillite C0, S2-S1, P4, P3, tr py, tr Lm Argillite very siliceous with translucent and clear quartz veinlets , chips, and flooding of fracture spaces. Unit gets somewhat less siliceous, and weakly graphitic with depth. Interbedded with white Altered Quartz Monzonite with strong argillic alteration 20-22. Minor unit medium orange Limonitic Altered Quartz Monzonite , with intensely oxidized pyrite veinlets , 22-24. Limonite is on fracture surfaces of many chips. 24-26 very fine grained pyrite visible under limonite on few fracture surfaces as well.</p>
27.00	31.00	<p>Limonitic Altered Quartz Monzonite C1, S0, P4, 5% Lm Dull brownish Limonitic Altered Quartz Monzonite with pervasive limonite alteration. No micas, and feldspars are weakly clay altered. Rare feldspars are weakly clay altered and limonite stained. Traces of manganese oxide from intensely oxide. Chips are weakly to moderately calcareous .</p>
31.00	32.00	<p>Limonitic Quartz Monozite C1, S0, 3% Lm Chips have very weak limonite alteration, and black biotite is fresh, or commonly weakly altered to white mica. No vivible sulphides. Weakly calcareous .</p>
32.00	34.00	<p>Limonitic Altered Quartz Monzonite C1, S0, P4, 5% Lm Mostly dull brownish Limonitic Altered Quartz Monzonite with moderate limonite alteration, no micas, and unaltered feldspars . 10% chips medium orange /brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration. These orange chips have manganese oxide coating some fracture surfaces. All chips are weakly calcareous .</p>
34.00	37.00	<p>Argillite C1, S1, P4, tr Lm Argillite is silicified with translucent quartz veinlets , and chips. Chips are very hard, and there is limonite on many surfaces, and on quartz . Weakly calcareous .</p>
37.00	40.00	<p>Graphitic Shale C2, S1, P4, tr Lm Black graphitic shale is very soft and easily crushed. There is white quartz stockwork , and limonite on fracture surfaces of few chips throughout, but mostly at upper contact. Immediate, moderate to strong reaction to HCl.</p>

*** END OF HOLE *** 40.00

HOLE NO: RC97-1961 SECTION: 19400 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	18/9/97
Date finished:	18/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	CLAY

*** COLLAR COORDINATES AND RL ***
 SURVEYED 20965.10mN 19401.10mE 947.70RL

Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 40
 Top of fresh rock: 40
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	11.50	SILTSTONE (EARN GROUP)
11.50	13.50	ARGILLITE
13.50	35.50	LIMONITIC ALTERED QUARTZ MONZONITE
35.50	40.00	SILTSTONE (STEEL FORMATION)
40.00	50.00	INTERMEDIATE LITHIC TUFF
50.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.00	Colluvium Overburden
2.00	11.50	Siltstone (Earn Group) C0, S0, P4, P3, tr py, tr Lm Siltstone is medium grey. Limonite is on most fracture surfaces throughout ; usually bright orange, however on few fracture surfaces very fine grained py is visible under light orange limonite , or tarnished pyrite is under reddish iron oxide. Black manganese oxide on few fracture surfaces . Traces of white quartz stockwork 2-4. 10-12 large chips are a lighter grey, and very soft ; easily scratched and broken.
11.50	13.50	Argillite 60:40 Limonitic Altered Quartz Monzonite C0, S1, P4, tr Lm Argillite is very siliceous with translucent and white quartz veinlets , and flooding in fracture spaces. Traces of limonite on few fracture surfaces . Interbedded with silicified medium orange /brown Limonitic Altered Quartz Monzonite , with traces of manganese oxide, and iron oxide from intensely oxidized cube pyrite.
13.50	35.50	Limonitic Altered Quartz Monzonite C1, S0, P4, 5% Lm Drill tech reported permafrost 16-35.5 . Medium to light orange /brown Limonitic Altered Quartz Monzonite with moderate limonite alteration. Fld are mostly moderately altered, occasionally strongly clay altered , to white clay. No micas. Manganese oxide throughout from intensely oxidized fine grained pyrite. Traces of iron oxide from intensely oxidized coarse grained cube py throughout as well. Not calcareous at upper contact, but chips become weakly calcareous with depth.
35.50	40.00	Siltstone (Steel Formation) 70:30 Argillite C0, S1, P4, tr Lm Siltstone (Steel Formation) is a mixture of medium grey, very light grey (silicified), and tan weathered chips. Very fine black laminations can be seen on some chips. Limonite is on surfaces of most chips. Light grey silicified siltstone is at 36-38. Argillite at 36-38 siliceous as well, with white quartz veinlets , and few white quartz chips. Traces of manganese oxide on limonite , or on tan weathered chips.
40.00	50.00	Intermediate Lithic Tuff 50:50 Argillite C0, S0, P0, 5% py Drill tech reported only light grey powder. Recovered chips are Argillite interbedded with light grey Intermediate Lithic Tuff (?), that has been intensely altered and most chips are easily broken or crushed. Argillite , if not chert like is also strongly clay altered. Many chips M TUFF , and argillite have been mineralized with 5-10 % vg and coarse grained cube fresh py . No limonite .

*** END OF HOLE *** 50.00

HOLE NO: RC97-1962 SECTION: 19401.9 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 54.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	28/12/97
Date finished:	28/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	CLAY TRAVIS & ROB BREMNER

*** COLLAR COORDINATES AND RL ***
 NOMINAL 20940.30mN 19401.90mE 953.00RL

Pre-collar depth: Final depth: 54.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation 48
 Top of fresh rock: 52
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	25.00	SILTSTONE (STEEL FORMATION)
25.00	27.00	INTERMEDIATE LITHIC TUFF
27.00	48.00	LIMONITIC ALTERED QUARTZ MONZONITE
48.00	54.00	INTERMEDIATE LITHIC TUFF
54.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.00	Colluvium
2.00	25.00	<p>Siltstone (Steel Formation) C0, S1, P4, tr -1% Lm Medium grey to dark grey Siltstone (Steel Formation). Non-calcareous. Limonite is on fracture surfaces and occurs within chips on planes of weakness. All intervals except 12-14m have a slight tannish/orange hue from limonite (almost like tan weathering on Siltstone (Earn Group)). Limonite gets quite thick on some fracture surfaces, especially 6-8m, 10-14m, and 18-20m. Trace pyrite occurs on Siltstone (Steel Formation). Most is fine-grained blebs of pyrite that has been oxidized to MgO₂ on the Qtz chips that occur throughout the interval. From 14-24m there are a few chips of Siltstone (Steel Formation) that have copper-coloured fine-grained blebs of oxidized pyrite; FeO₂. Qtz chips occur and also thin veinlets which are stained by limonite. 10% dark grey Intermediate Lithic Tuff. Limonite is almost pervasively coating some chips. Limonite also occurs on fracture surfaces and "infill" in pits. From 22-25m there are more pitted chips. Pyrite is fine-grained blebs and specks which are completely oxidized to MgO₂ and FeO₂ about 50/50 on most chips; some chips are 70/30 FeO₂. Non-calcareous. No Qtz veinlets or Qtz eyes seen.</p>
25.00	27.00	<p>Intermediate Lithic Tuff C0, S1, P4, tr Lm Intermediate Lithic Tuff is same as 2-25m except less MgO₂ and more FeO₂ on all chips. 10% Siltstone (Steel Formation) is same as 2-25m about 3% Qtz chips in interval.</p>
27.00	48.00	<p>Limonitic Altered Quartz Monzonite C1, S1-S4, P4-P1, 2% Py, 1-2% Lm Medium orange/brown to white/tan Limonitic Altered Quartz Monzonite. Pervasive limonite occurs in all chips except from 36-48m where white/tan Limonitic Altered Quartz Monzonite chips occur; about 20-30% of chips. Limonite is stronger on fracture surfaces and a "infill" or "coating" on some chips. Biotite is completely altered to white mica and then coated with limonite or partially coated. Feldspars are weak to moderately altered to clay. Pyrite is dominantly fine-grained blebs oxidized to MgO₂. There is also a few specks of pyrite that has oxidized to FeO₂ form 38-40m. Pyrite on the white/tan Limonitic Altered Quartz Monzonite is fresh to slightly tarnished (probably secondary; came in with Qtz flooding). Pyrite is medium to coarse grained. White/tan chips have ghosts where white mica was or is still slightly. These chips are completely flooded by Qtz. From 38-44m some chips have a darker brown/orange limonite pervasively. Slightly calcareous after a few seconds. From 28-30m there is some feldspar chips and more abundant feldspars in the Limonitic Altered Quartz Monzonite chips.</p>
48.00	54.00	<p>Intermediate Lithic Tuff C0, S1, P2-P1, 1% Py, tr Lm Dark grey to light grey Intermediate Lithic Tuff. Non-calcareous. Slight gougy from 50-54m. Gouge seen 52-54m. Very trace limonite on a few fracture surfaces from 48-52m; no limonite seen 52-54m. Pyrite is fine to medium grained clusters that are fresh to slightly tarnished. Intermediate Lithic Tuff is very fine-grained. A few Qtz chips from 48-52m; no limonite staining. 25% medium grey Shale. Non-calcareous. No limonite. No pyrite seen on Siltstone (Steel Formation). No Qtz seen. Fairly soft.</p>

*** END OF HOLE *** 54.00

HOLE NO: RC97-1963 SECTION: 23275.1 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	29/12/97
Date finished:	29/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	ROB BREMNER & CLAY TRAVIS

*** COLLAR COORDINATES AND RL ***
 NOMINAL 19446.80mN 23275.10mE 790.70RL

Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation 38
 Top of fresh rock: 34
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	180.00	-55.00

*** SUMMARY LOG ***

0.00	5.00	LIMONITIC ALTERED QUARTZ MONZONITE
5.00	7.00	GRAPHITIC ARGILLITE
7.00	15.00	LIMONITIC ALTERED QUARTZ MONZONITE
15.00	21.00	GRAPHITIC ARGILLITE
21.00	22.00	LIMONITIC ALTERED QUARTZ MONZONITE
22.00	23.50	SILTSTONE (EARN GROUP)
23.50	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
23.50	50.00	Graphitic Argillite C0, S0-S1, P4-P0, tr Py, Nil-tr Lm Dark grey/black - dark black Graphitic Argillite. Limonite occurs on fracture surfaces and as staining on Qtz veinlets and chips from 23.5-34m. No limonite seen from 34-50m. Pyrite from 23.5-30m is fine-grained and oxidized to MgO ₂ on the Qtz. No pyrite seen on Graphitic Argillite unless fine and oxidized to MgO ₂ . From 30-50m very trace pyrite seen except for a few chips from 42-50m which are fresh but coarse-medium grained cubic pyrite. From 36-38m there is a small cluster of slightly tarnished fine-grained pyrite which as sections that is strongly to completely oxidized to MgO ₂ . Qtz veining is quite strong to 30m. From 28-30m there is about 30% Qtz chips, the Graphitic Argillite is very soft and there is only 1/4 of the chip tray filled with chips for this interval. There is a trace of Qtz veining 46-50m. From 32-46m there is nothing but Graphitic Argillite. Slightly more graphitic from 32-50m.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1964 SECTION: 23250 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	30.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	19/9/97		
Date finished:	19/9/97		
Logged by:	L.JAMERICH		
Relogged by:			
Sampled by:	ROB		

*** COLLAR COORDINATES AND RL ***
 NOMINAL 0.00mN 0.00mE 0.00RL

Pre-collar depth: Final depth: 30.00
 Purpose of hole: EXPLORATION
 Hole status: TO DEPTH
 Comments:

Material left in hole:
 Base of complete oxidation 26
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: N/A

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	180.00	-55.00

*** SUMMARY LOG ***

0.00	3.00	ARGILLITE
3.00	15.00	LIMONITIC ALTERED QUARTZ MONZONITE
15.00	18.50	SILTSTONE (EARN GROUP)
18.50	20.00	LIMONITIC ALTERED QUARTZ MONZONITE
20.00	23.50	SILTSTONE (EARN GROUP)
23.50	25.00	LIMONITIC ALTERED QUARTZ MONZONITE
25.00	28.50	GRAPHITIC ARGILLITE
28.50	30.00	SILTSTONE (EARN GROUP)
30.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	3.00	Argillite C0, S1, P2, tr.Py, tr.Lm Dark gray Argillite is dominantly fresh and unaltered with trace limonite on fracture surfaces of some chips. Py occurs as coarse grained cubes and also finer grained blebs on fracture surfaces (perhaps small py veinlets?). Both are tarnished on the surfaces.
3.00	15.00	Limonitic Altered Quartz Monzonite C1-C2, S2-S3, P4, 2%Lm Med. Orange brown Limonitic Altered Quartz Monzonite with weakly pervasive limonite and limonite on fracture surfaces and fractures. Feldspars are strongly argillically altered. Biotite is altered to white mica. In about 15% of the chips no white mica visible at all. Some chips have a moderate reaction to HCl on their surfaces and other have a weak reaction on surface and small veinlets of calcite. Few Qtz chips throughout interval with most chips having weak Qtz flooding increasing slightly from 10-12m. Pyrite is completely oxidizes to manganese oxide(blebs of MgO ₂). There is a few coarse pyrite grains that are P2 with manganese oxide on the rim and tarnished surfaces.
15.00	18.50	Siltstone (Earn Group) C0, S2, P2, tr.Py, tr.Lm Med-dark gray Siltstone (Earn Group) has tr.Lm on fracture surfaces. Trace tarnished fine grained pyrite occurs as small blebs through the interval. There is Qtz stockworking and flooding in some chips. At 16-18m there is trace light gray shale chips with no limonite and no sulfides.
18.50	20.00	Limonitic Altered Quartz Monzonite C1, S2, P2, tr.Py, 1%Lm Med orange/red/brown Limonitic Altered Quartz Monzonite with weakly pervasive Lm and moderate reddish orange Lm on fracture surfaces. Feldspars are strongly argillicly altered. Biotite is completely altered to white mica. Pyrite occurs dominantly as cubic ,coarse grained and tarnished. There is trace fine grained pyrite that has oxidized to manganese oxide. Grains are slightly calcarious on some fracture surfaces. Few Qtz chips and trace Qtz flooding.
20.00	23.50	Siltstone (Earn Group) C1, S2, P2, tr.Py, tr.Lm medium gray Siltstone (Earn Group) with trace Lm on a few fracture surfaces. Pyrite is fine grained and occurs in a few blebs and is tarnished and slightly oxidized to MgO ₂ seen on Qtz. The Qtz occurs as Qtz veining and vienlets and a few chips are predominantly Qtz.
23.50	25.00	Limonitic Altered Quartz Monzonite C1, S1, P4, 1%Lm Med.Orange Limonitic Altered Quartz Monzonite with pervasive limonite and trace orange brown on a few fracture surfaces. Pyrite is completely oxidized to MgO ₂ and occurs in blebs. Feldspars are strongly altered to white mica. Biotite is completely altered to white mica. Qtz occurs as trace flooding.
25.00	28.50	Graphitic Argillite C0, S1, P0, tr.Py, tr.Lm Dark gray-black Graphitic Argillite. Pyrite is fine grained single grains or small blebs. Trace limonite occurs as staining on quartz vienlets. Qtz occurs as stringers.
28.50	30.00	Siltstone (Earn Group) 90:10 Shale C1, S1, P2, tr.Py, tr.Lm med.Gray Siltstone (Earn Group) with trace Lm on fracture surfaces. Pyrite is fine grained blebs and tarnished to a reddish colour. Qtz stringers occur on a few chips. Shale is light med.Gray with trace Lm that is a coating. No pyrite seen on Shale. No Qtz seen in Shale chips.

*** END OF HOLE *** 30.00

HOLE NO: RC97-1965	SECTION:23250	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	30.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	19/9/97		
Date finished:	19/9/97		
Logged by:	L.JAMRICH		
Relogged by:			
Sampled by:	ROB		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 30.00
 Purpose of hole: EXPLORATION
 Hole status: TO DEPTH
 Comments:

Material left in hole:
 Base of complete oxidation 22
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: N/A

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	180.00	-90.00

*** SUMMARY LOG ***

0.00	6.00	LIMONITIC ALTERED QUARTZ MONZONITE
6.00	13.00	SILTSTONE (EARN GROUP)
13.00	20.00	LIMONITIC ALTERED QUARTZ MONZONITE
20.00	26.00	SILTSTONE (EARN GROUP)
26.00	28.50	CHERT
28.50	30.00	GRAPHITIC ARGILLITE
30.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	6.00	<p>Limonitic Altered Quartz Monzonite C1-C3, S1, P4, 3%Lm Darker orange brown Limonitic Altered Quartz Monzonite with moderately pervasive limonite and moderate reddish/brown limonite on fractured surfaces. Pyrite is completely oxidized to manganese oxide as blebs and on fracture surfaces. Feldspars are moderately to strongly argillicly altered. Biotite is completely altered to white mica. 0-2m is slightly calcareous 2-6m is quite reactive to HCl on the chip surfaces. Trace Qtz flooding occurs within the interval.</p>
6.00	13.00	<p>Siltstone (Earn Group) 90:10 Argillite C1, S2, P4, tr.Lm Med. Gray with some lighter gray Siltstone (Earn Group). Limonite occurs on fracture surfaces and staining on Qtz stringers. Pyrite completely oxidized to MgO₂(and some pyrite may have been oxidized to limonitic pits?). Qtz stringers are visible and few chips of highly silicified SLT or Chert. Few chips of Qtz. Argillite is dark gray to black with small Qtz veinlets visible with limonite on the veinlets.</p>
13.00	20.00	<p>Limonitic Altered Quartz Monzonite C1, S1, P3, 1%PY, 1-2%Lm Light to medium orange brown Limonitic Altered Quartz Monzonite with pervasive limonite and stronger limonite on fracture surfaces. Pyrite is strongly oxidized to MgO₂ with some still visible as fine grained blebs tht are tarnished. Feldspars are strongly altered to clay and biotite are completely altered to white mica(except chips at 18-20m). Qtz is occuring as flooding and veinlets. Trace Arsenopyrite visible (silver in colour).</p>
20.00	26.00	<p>Siltstone (Earn Group) C1, S2, P4, tr.Lm Light-med gray Siltstone (Earn Group) with tan weathering colouring and limonite on fracture surfaces. Some chips with limonite pits where sulfide was. Pyrite is oxidized to MgO₂ and to limonite in blebs and pits where used to be disseminated. Few chips of Chert or very silicious Siltstone (Earn Group) have fresh pyrite that is fine grained and disseminated. Qtz flooding and veinlets. Small reaction to HCl.</p>
26.00	28.50	<p>Chert (Silicified Siltstone (Earn Group)?) C0, S4, P2-P4, 1%py, tr.Lm Very light gray Chert or silicified Siltstone (Earn Group). Lm on fracture surfaces and limonite as pits where sulfide was. Chips with limonite pits are slightly less silicious. Qtz is flooding with some silicious chips also having Qtz veinlets. Pyrite is fresh and fine grained and disseminated on the cherty chips and is completely oxidized on the less silicious chips as limonite pits and some MgO₂. There is also fresh coarser grained slightly cubic pyrite and coarsed grained blebs on the moderatly silicious chips.</p>
28.50	30.00	<p>Graphitic Argillite C0, S1, P1, tr. Py, tr. Lm Med-dark gray to black Graphitic Argillite with limonite on the quartz stringer. Pyrite is fresh with some slightly tarnished. Qtz stringers and feldspar(altered argillicly). No reaction to HCl.</p>

*** END OF HOLE *** 30.00

HOLE NO: RC97-1966	SECTION:23225	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	30.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	19/9/97		
Date finished:	19/9/97		
Logged by:	L.JAMRICH		
Relogged by:			
Sampled by:	CLAY AND ROB		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 30.00
 Purpose of hole: EXPLORATION
 Hole status: TO DEPTH
 Comments:

Material left in hole:
 Base of complete oxidation 15
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: N/A

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	180.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	ARGILLITE
2.00	11.00	LIMONITIC ALTERED QUARTZ MONZONITE
11.00	12.50	ARGILLITE
12.50	14.00	LIMONITIC ALTERED QUARTZ MONZONITE
14.00	30.00	SILTSTONE (EARN GROUP)
30.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Argillite C1, S1, P4, 1%Lm Dark gray Argillite with limonite on fracture surfaces and blebs where pyrite probably was. Pyrite oxidized and limonite specs and blebs in their place. Qtz stringers occur on some surfaces. Limonite is a bright orange to brown colour. Slightly calcareous on some surfaces
2.00	11.00	Limonic Altered Quartz Monzonite C1-C3, S2, P4, 2%Lm Light to medium orange Limonic Altered Quartz Monzonite with pervasive limonite throughout and a stronger limonitic "coating" on fracture surfaces and on feldspars. Feldspars are strongly argillically altered and biotite is completely altered to white mica. Blebs of fine grained pyrite is oxidized to MgO and coarse grained cubic pyrite is strongly tarnished. Qtz flooding and stringers occur with some Qtz chips. Strong reaction 2-4m and weak rest of interval.
11.00	12.50	Argillite C0, S1, P3, trpy, trLm Dark gray/black Argillite with limonite on fracture surfaces and blebs where pyrite previously was. Pyrite is oxidized and limonitic blebs with small traces of tarnished larger grained pyrite still visible. Few Qtz strings occur.
12.50	14.00	Limonic Altered Quartz Monzonite C1, S1, P4, 2%Lm Light to medium orange Limonic Altered Quartz Monzonite with pervasive Lm throughout. Some Lm on feldspars and fracture surfaces. Feldspars and biotite are completely altered to clay and white mica respectively. Pyrite is oxidized to MnO and occurs as fine grained blebs. Qtz flooding and stringers occur. Slightly calcareous.
14.00	30.00	Siltstone (Earn Group) C1, S2-S3, P1-P3, 1%py, tr.Lm Light gray to dark gray Siltstone (Earn Group). Limonite occurs on fracture surfaces and distinctive tan weathering occurs. Pyrite occurs throughout interval. Pyrite occurs as fine grained blebs which range from almost completely manganese oxide to slightly tarnished. Pyrite also occurs as cubic pyrite which is tarnished. The finer grained pyrite seems to be more consistent in lighter coloured Siltstone (Earn Group) and the more cubic pyrite seem to occur in the darker Siltstone (Earn Group) (perhaps silicification). Qtz stringers and flooding occurs. A few chips of very silicified Siltstone (Earn Group) occurs. Darker gray Siltstone (Earn Group) is more dominant 16-20m and is almost absent near end of interval. All intervals are slightly calcareous (hard to tell if pervasive or just small stringers)

*** END OF HOLE *** 30.00

HOLE NO: RC97-1967 SECTION:23225 GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00 30.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	19/9/97
Date finished:	19/9/97
Logged by:	L.JAMRICH
Relogged by:	
Sampled by:	CLAY

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 30.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments:

Material left in hole: NONE
 Base of complete oxidation 12
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: N/A

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	180.00	-55.00

*** SUMMARY LOG ***

0.00	9.00	LIMONITIC ALTERED QUARTZ MONZONITE
9.00	10.50	GRAPHITIC ARGILLITE
10.50	17.00	SILTSTONE (EARN GROUP)
17.00	23.00	ARGILLITE
23.00	30.00	SILTSTONE (EARN GROUP)
30.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	9.00	<p>Limonitic Altered Quartz Monzonite C2, S2, P3, 1%py, 2%Lm Medium to medium/dark orangish brown Limonitic Altered Quartz Monzonite. Limonite occurs pervasively and on fracture surfaces. Some limonite occurs dominantly on fractured surfaces. Pyrite is oxidized moderately to MnO₂ and tarnished to a strong "copper" colour on blebs. Qtz flooding and a few stringers occur. Feldspars are moderately to strongly altered to clay and biotite is completely altered to white mica. From 0-4m is slightly more calcareous than 4-9m.</p>
9.00	10.50	<p>Graphitic Argillite Co, S1, P3, 1%py, tr, Lm Dark gray to black Graphitic Argillite. Pyrite is almost completely oxidized and limonitic specs and small blebs are present in place of pyrite grains. Small stringers of Qtz create a trace amount of silicification.</p>
10.50	17.00	<p>Siltstone (Earn Group) C1, S2, P3, 2%py, tr.Lm. Light to medium gray Siltstone (Earn Group) with limonite on some fracture surfaces. Distinctive tan weathering. Limonite specs and blebs from previous sulfides. Specs are bright orange/red with some "copper" tarnish colour still on some blebs. Sulfides are fine grained and disseminated blebs and a few small stringers. Some light chips have MnO₂ specs also. Qtz flooding and veinlets occur on some chips and some Qtz chips. Slight reaction to HCl.</p>
17.00	23.00	<p>Argillite 60:40 Siltstone (Earn Group), C1, S2, P2, tr.Py, tr.Lm Dark gray to black Argillite. Limonite on few fracture surfaces, Qtz stringers and specs where sulphides are. Pyrite is oxidized to limonite with tarnished sulfide still remaining. Pyrite is fine grained and is disseminated and occurs as blebs on fracture surfaces. Few Qtz stringers occur. Light to medium gray Siltstone (Earn Group) with specs on limonite where sulphides have been oxidized. Pyrite is tarnished with a few fresh, fine grained, disseminated pyrite grains within 18-20m. Siltstone (Earn Group) is siliceous in lighter coloured chips. Slight reaction but not sure if pervasive or "coating" reacting.</p>
23.00	30.00	<p>Siltstone (Earn Group) CO, S4, P1, tr-1%py, tr.Lm. Light to medium gray Siltstone (Earn Group). Limonite occurs as small specs where few sulfide have oxidized and as staining on few Qtz veinlets. Pyrite is dominantly fine grained, fresh with slight tarnishing. Some medium to coarse grained cubic, slightly tarnished pyrite is noted. Also noted is few dark black specks on a few chips which perhaps could be MnO₂ from disseminated pyrite. Siltstone (Earn Group) is moderately to highly siliceous and some chips may be chert.</p>

*** END OF HOLE *** 30.00

HOLE NO: RC97-1968 SECTION:23200 GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00	70.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	20/9/97		
Date finished:	20/9/97		
Logged by:	L.JAMERICH		
Relogged by:			
Sampled by:	CLAY		

*** COLLAR COORDINATES AND RL ***
 NOMINAL 0.00mN 0.00mE 0.00RL

Pre-collar depth: Final depth: 70.00
 Purpose of hole: EXPLORATION
 Hole status: TO DEPTH
 Comments:

Material left in hole:
 Base of complete oxidation 24
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: N/A

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	180.00	-55.00

*** SUMMARY LOG ***

0.00	23.50	LIMONITIC ALTERED QUARTZ MONZONITE
23.50	30.50	GRAPHITIC ARGILLITE
30.50	44.00	SILTSTONE (EARN GROUP)
44.00	47.50	GRAPHITIC ARGILLITE
47.50	58.00	LIMONITIC ALTERED QUARTZ MONZONITE
58.00	60.00	GRAPHITIC ARGILLITE
60.00	70.00	SILTSTONE (EARN GROUP)
70.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	23.50	<p>Limonitic Altered Quartz Monzonite C0-C3, S2, P4, 2-3%Lm Med. Orange to med. Orange brown Limonitic Altered Quartz Monzonite. Darker colour 0-6m then lighter 6-23.3m. Limonite is pervasive and also occurs more moderately on fracture surfaces. Pyrite is completely oxidized to MgO2 dominately but some chips have limonitic blebs where the sulfide has been oxidized. The oxidized sulphides are mostly fine grained blebs with some med. Grained disseminated within some chips. From 20-22m there is a fairly strong reaction to HCl; with the rest of the intervals having little or no reaction. Feldspars are strongly altered to clay and the biotite altered to white mica. There is about 10% Siltstone (Earn Group) in 12-14m.</p>
23.50	30.50	<p>Graphitic Argillite C0, S1, P2, tr.Py, tr.Lm Dark gray to black Graphitic Argillite. Trace Limonite on Qtz veinlets and limonitic specks where sulfides were. Most pyrite is tarnished and limonitic surrounding fine grains. Few small Qtz veinlets on some chips.</p>
30.50	44.00	<p>Siltstone (Earn Group) C1, S2-3, P3-P1, 1%py, tr.Lm Light-dark gray Siltstone (Earn Group). Limonite occurs as specks and blebs where sulfides are or on a few fracture surfaces and Qtz veinlets. Distinctive tan weathering occurs throughout intervals. Pyrite occurs as fine grain blebs and stringers which are still tarnished strongly giving a metallic look. Pyrite also occurs as med. To coarse grain, semi-cubed, fresh to tarnished grains. Qtz veinlets occur and also Qtz flooding with some chips highly silicious. Few Qtz chip occur also. From 30-32m some chips have a brecciated texture with light and dark Siltstone (Earn Group)(silicious and less silicious pieces).</p>
44.00	47.50	<p>Graphitic Argillite C0,S1,P1,tr.Py,tr.Lm Dark gray black Graphitic Argillite. Limonite occurs only on Qtz veinlets as staining. Pyrite is fine grain and disseminated with a few small blebs; tarnished moderatly and some are fresh. A few chips have small Qtz veinlets running through them.</p>
47.50	58.00	<p>Limonitic Altered Quartz Monzonite C3, S3, P3, tr.Py, tr.Lm Light orange with some tannish green chips (perhaps Altered Quartz Monzonite). Border of Limonitic Altered Quartz Monzonite and Altered Quartz Monzonite. Limonite is lightly pervasive throughout most of the chips and a few specks limonitic where sulfides were. Pyrite is completely oxidized to MgO2 dominatly and some to limonite. The pyrit was fine grained and bleby. Chips are silicified by Qtz flooding. In the unwashed interval a strong reaction to HCl occured but no reaction occured in the washed tray. Feldspars are hard to find; therefore probably completely altered to clay and washed out. Biotite are completely altered to white mica. Few apple green mariposite on some chips 50-52m.</p>
58.00	60.00	<p>Graphitic Argillite C0, S1, P1, tr.Py, tr.Lm Dark gray-black Graphitic Argillite. Trace limonite occurs on the few Qtz veinlets that occur on some chips. Pyrite is fresh with a little tarnishing on the medium grain pyrite.</p>
60.00	70.00	<p>Siltstone (Earn Group) C1, S2-S3, P1, 1-2% py, tr Lm Light gray to med. Grey Siltstone (Earn Group). Limonite occurs as staining on Qtz veinlets and distinctive tan weathering 60-62m. Pyrite is fine grain and disseminated and blebby. Some chips from 60-64 are composed almost completely with fresh pyrite and is 2% py. The rest of the intervals are about 1% of the fresh pyrite. Qtz flooding is seen with some chips highly silicified to almost Chert. From 68-70m the Siltstone (Earn Group) are starting to darken and is less silicified. Small reaction occurs with 10% HCl.</p>

*** END OF HOLE *** 70.00

HOLE NO: RC97-1969 SECTION: 23237 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole:
 Base of complete oxidation 40
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: N/A

*** COLLAR COORDINATES AND RL ***

NOMINAL 19432.70mN 23236.50mE 800.60RL

Pre-collar depth: 70 Final depth: 70.00
 Purpose of hole: EXPLORATION
 Hole status: TO DEPTH
 Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	180.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	LIMONITIC ALTERED QUARTZ MONZONITE
4.00	8.00	SILTSTONE (EARN GROUP)
8.00	11.00	GRAPHITIC ARGILLITE
11.00	12.00	LIMONITIC ALTERED QUARTZ MONZONITE
12.00	14.50	GRAPHITIC ARGILLITE
14.50	18.50	SILTSTONE (EARN GROUP)
18.50	37.00	LIMONITIC ALTERED QUARTZ MONZONITE
37.00	38.50	GRAPHITIC ARGILLITE
38.50	40.00	LIMONITIC ALTERED QUARTZ MONZONITE
40.00	61.00	SILTSTONE (EARN GROUP)
61.00	70.00	ARGILLITE
70.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	<p>Limonitic Altered Quartz Monzonite 60:40 Siltstone (Earn Group) C1, S2, P4, 2%Lm Med.Orange Limonitic Altered Quartz Monzonite. Limonite occurs on fracture surfaces and also pervasive. Both feldspar and biotite are completely altered to clay and white mica respectively. Pyrite is oxidized to MgO2 and still has a metallic finish with some of the black manganese oxide. Pyrite is fine grained. And blebby. Quartz flooding seen. Med.Gray Siltstone (Earn Group) with limonite on fracture surfaces. Pyrite is also oxidized to MgO2 and limonite. Reaction occurs on the Siltstone (Earn Group) chips. Few chips have Qtz strings which are stained by limonite.</p>
4.00	8.00	<p>Siltstone (Earn Group) C1, S1, P3, tr.Py, tr.Lm Light -med.Gray Siltstone (Earn Group). Limonite occurs on fracture surfaces and as specks where pyrite was. Pyrite has been oxidized to limonite and MgO2 to a lesser extent. Pyrite occurs as blebs and disseminated fine grained. Few grains of pyrite still have some strong tarnishing, "copper colour". Qtz veining occurs on a few chips.</p>
8.00	11.00	<p>Graphitic Argillite C0, S2, P3, tr.Py, tr.Lm Dark gray to black Graphitic Argillite. Limonite staining on Qtz veining and some fracture surfaces. Pyrite is oxidized almost completely to MgO2 (metallic sheen seen) or to limonitic blebs.</p>
11.00	12.00	<p>Limonitic Altered Quartz Monzonite C0, S2, P4, tr.Py, 1% Lm med-light orange Limonitic Altered Quartz Monzonite with pervasive limonite. Feldspars strongly altered to clay and biotite altered to white mica. Qtz flooding seen. Pyrite is completely oxidized to MgO2 and is fine grain blebs (coating like). There is a few coarse grained cubes of pyrite that is 'copper coloureds from tarnishing.</p>
12.00	14.50	<p>Graphitic Argillite C0, S1, P3, tr.Py, tr.Lm same as 8-11m</p>
14.50	18.50	<p>Siltstone (Earn Group) C1, S1, P3, tr.Py, tr.Lm Same as 4-8m</p>
18.50	37.00	<p>Limonitic Altered Quartz Monzonite C0-C1, S2, P4, 1%Lm Light to med. Orange Limonitic Altered Quartz Monzonite. Limonite on fracture surfaces and is dominantly pervasive. Few darker orange brown blebs and specks where sulfides were. Pyrite is completely oxidized into fine grain MgO2 blebs and a few disseminated black specks. Few chips from 24-28m have some fine-med. Grain oxidized pyrite grains that have 'copper colours tarnish.</p> <p>Qtz flooding is dominant but a few chips throughout interval have Qtz veinlets (stained by limonite). Feldspar are moderately-strongly clay altered. Biotite are completely altered to white mica. From 30-34m strong reaction HCl and others there was no reaction or very slight from Qtz calcite veinlets.</p>
37.00	38.50	<p>Graphitic Argillite C0, S1, P3, tr.Py, tr.Lm Same as 8-11m</p>
38.50	40.00	<p>Limonitic Altered Quartz Monzonite C1, S2, P4, 1% Lm Medium to light Limonitic Altered Quartz Monzonite. Pervasive limonite with some blobs and specks of limonite from sulfides. Pyrite is fine grained blebs and specs of disseminated and oxidised limonite. Quartz flooding seen. Feldspars are strongly argillically altered and biotite are completely altered to white mica. Quartz flooding is evident.</p>
40.00	61.00	<p>Siltstone (Earn Group) C1, S2-S3, P1, 1% py, tr Lm Light to medium grey Siltstone (Earn Group) . Limonite occurs on quartz veinlets and a few fracture surfaces. Distive tan weathering on a lot of chips. Pyrite is fine to cubic, and dominantly fresh, with tarnished surfaces. Pyrite occurs mostly disseminated, but some clustered. There are few chips with stronger tarnished blebs of fine grained py in just about all 2 m intervals. Quartz veining occurs and quartz flooding also occurs and increases down hole. Some chips very siliceous ; "cherty".</p>

From	To	Geological Log
61.00	70.00	Argillite 60:40 Chert (SILICEOUS Siltstone (Earn Group)) C0, S1, S4, P0, tr py, tr Lm Black to dark black Argillite . Very trace limonite on some quartz veinlets, and a few quartz chips which are limonitic. (Contamination ?). Pyrite is fine grained and disseminated. Pyrite is fresh, with a few grains slightly tarnished in each interval. Few quartz veinlets occur. Chert is light grey, to very light grey. Could be siliceous siltstone as seen in above unit. Fresh disseminated fine grained pyrite is seen.

*** END OF HOLE *** 70.00

HOLE NO: RC97-1970 SECTION: 23275 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	8/11/97
Date finished:	8/11/97
Logged by:	V. PARK
Relogged by:	
Sampled by:	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	180.00	-55.00

*** SUMMARY LOG ***

0.00	0.20	OVERBURDEN
0.20	4.50	LIMONITIC ALTERED QUARTZ MONZONITE
4.50	6.10	LIMONITIC QUARTZ MONZONITE
6.10	12.00	LIMONITIC ALTERED QUARTZ MONZONITE
12.00	15.50	LIMONITIC ALTERED QUARTZ MONZONITE
15.50	20.00	GRAPHITIC ARGILLITE
20.00	23.80	SILTSTONE (EARN GROUP)
23.80	33.00	LIMONITIC ALTERED QUARTZ MONZONITE
33.00	34.80	GRAPHITIC ARGILLITE
34.80	36.50	SILTSTONE (STEEL FORMATION)
36.50	38.50	ARGILLITE
38.50	45.00	LIMONITIC ALTERED QUARTZ MONZONITE
45.00	46.50	LIMONITIC QUARTZ MONZONITE
46.50	50.00	QUARTZ MONZONITE
50.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	0.20	Overburden 95LAQM:5ARG Fill, as indicated by drill site technician; water in sample - possibly from surface; <5% non-graphitic angular argillite within monzonite.
0.20	4.50	Limonitic Altered Quartz Monzonite 1% Py P4 C2 Dull orange-brown to lighter yellowish orange limonitic altered quartz monzonite; <5% richer darker orange fragments; strong, even pervasive limonitic staining throughout. Original porphyritic textures often well preserved with near fresh translucent feldspar crystals <4mm and more common whitish, opaque, clay-altered crystals; <5% former biotite crystals altered to silvery sericitic pseudomorphs, often with faint limonitic staining; rare poorly preserved brownish biotite shreds. Much of feldspar-rich matrix altered to fine sericite, creating felted texture; moderately calcareous - slow starting reaction to HCl comes from fine powder mixed with sericite on chip surfaces; minor manganese oxide coats many surfaces. 1% completely oxidized disseminated cubic pyrite <1/4mm. No secondary quartz.
4.50	6.10	Limonitic Quartz Monzonite C2 Medium orange brown monzonite with strong, even pervasive limonitic staining and 5-10% fresh black to slightly altered biotite crystals <1mm; otherwise, much as 0.2 - 4.5m with well preserved porphyritic igneous texture, partially altered feldspar phenocrysts <3mm, strong sericitization after modal feldspars, moderately calcareous matrix and trace manganese oxide on some surfaces; trace biotite altered to good silvery sericitic pseudomorphs; <2% blueish biotitic unaltered monzonite. Rare completely oxidize pyrite cubes <1/4mm; no secondary quartz.
6.10	12.00	Limonitic Altered Quartz Monzonite TR Py P4 C3 Dull medium orange-brown limonitic altered quartz monzonite, very much as 0.2 - 4.5m; igneous textures well preserved with abundant porphyritic clay-altered, whitish, opaque k-spar crystals <4mm; biotite altered to rare good silvery pseudomorphs and numerous poorly preserved limonitic, sericitic shreds, often coated with manganese oxide. Strongly calcareous - reaction to HCl is rolling in unwashed sample, but starts more slowly in washed sample - originates in powder mixed in with sericite on chip surfaces; minor manganese oxide throughout. Rare trace disseminated pyrite altered to dark red limonitic cubes <4mm; no secondary quartz.
12.00	15.50	Limonitic Altered Quartz Monzonite 80:20 Argillite 3% Py P3-P1 TR Sb C1 S2 Limonitic altered quartz monzonite, much as 6.1 - 12.0m; <20% siliceous to chert-like non-graphitic, dark grey, angular argillite with minor sub-mm milky quartz stockwork; <2% blueish altered quartz monzonite. <3% pyrite as rarer completely oxidized dissemination (P4) and more commonly as large clusters of nearly completely oxidized pyrite; <1% striated, partially oxidized (P1-P3) pyrite crystals <1/2mm which are clearly a different phase than final pyrite crystals; trace very fine-grained disseminated stibnite within intensely silicified chips; very rare narrow sulfidic stringers. Moderate pervasive silicification created vitreous lustre and increased richness in limonitic staining; chips break into more angular fragments instead of along grain boundaries as is more common; strongest sulfidization is closely associated with silicification; discrete quartz veinlets are rare. Intensity of pervasive limonitic staining and oxidation of all pyrite phases decreases to end of interval; trace very, very fine acicular disseminated arsenopyrite where oxidations are least intense. Very rare quartz eyes near lower contact; moderately calcareous.
15.50	20.00	Graphitic Argillite Sk Gr Dark grey to black argillite, increasingly graphitic to end of interval - best observed in unwashed sample, especially 18.0 - 20.0m. Fragments are siliceous, hard and angular with weak to moderate milky quartz stockwork where less carbonaceous; rock becomes softer, more platy and shale-like where graphite content increases; stockwork decreases as graphite content increases.

From	To	Geological Log
		Limonitic surfaces, often with clay-like coating are common near upper contact; good graphitic sheen develops toward lower contact. Very rare sandstone and shale fragments; very, very rare intrusive fragments. No sulfides.
20.00	23.80	Siltstone (Earn Group) 1% Py P3 C1 Medium grey to very faintly orange, very fine grained, equigranular, weakly to moderately calcareous siltstone; resembles Steel Formation but chips are not as platy and location may not be correct. Siliceous chips break into angular, hard fragments; no internal textures are seen; Most surfaces with minor weakly limonite stained sericite wisps, occasionally creating polka dotted appearance; fractures show stronger oxidation; minor dendritic manganese oxide on some fractures. <1% fine grained disseminated pyrite <1/4mm, strongly to completely oxidized to limonite, and usually concentrated on fracture surfaces; trace disseminated fresh pyrite.
23.80	33.00	Limonitic Altered Quartz Monzonite 1% Py P3 C1 Bright orange-brown limonitic altered quartz monzonite; strong, even, pervasive limonitic staining; feldspar-rich matrix shows strong sericitization, creating felted, opaque appearance; original porphyritic igneous textures reasonably well preserved - waxy, cream-coloured, opaque, clay-altered k-spar phenocrysts <4mm are often seen in situ. No secondary quartz; matrix is weakly to moderately calcareous - reaction to HCl starts slowly and intensifies with time; carbonate is indistinguishable from sericite on chip surfaces. Biotite altered to dark brown, oxidized, often barely recognizable wisps and to good, silvery sericitic pseudomorphs which may be dotted with limonitic patches. Trace disseminated pyrite <1/4mm as cubes with partial oxidation, ranging from tarnish to near complete alteration; rare trace fresh disseminated sulfides where unit lacks pervasive limonitic staining and oxidation. No secondary quartz; <1% unoxidized intrusive. 32.0 - 33.0m: 3-5% variably oxidized (P1-P4) disseminated, very fine grained pyrite; decreased pervasive limonitic staining; improved phyrlic texture; decreased clay alteration; increased carbonate content.
33.00	34.80	Graphitic Argillite Sk Gr Dark grey graphitic argillite; ultra fine grained graphite creates distinct graphitic sheen on many chip surfaces; siliceous, angular, hard chips contain weak milky quartz stockwork (veinlets <1mm); minor limonitic coating on some surfaces; no sulfides.
34.80	36.50	Siltstone (Steel Formation) 3% Py P0 C2 Medium grey, moderately to strongly calcareous Steel Formation Siltstone, much as 20.0 - 23.8m; reaction to HCl is long-lasting, intensifies with time and creates very fetid odour; fine grained equigranular unit lacks texture; fragments are small and platy with an appearance more typical of unit; rare surfaces show weak limonitic patina; micro-cracks and fractures lined with black manganese oxide. Unit contains 3-5% ultra fine grained (<1/10mm locally) disseminated pyrite - usually fresh to very weakly oxidized; sulfides often concentrated on fractures. No stockwork; not silicified.
36.50	38.50	Argillite Medium grey to dark grey, siliceous non-graphitic argillite; interfingered with siltstone on sub-mm scale locally; original bedding very faintly evident occasionally; rare limonitic surfaces; weak milky quartz stockwork - veinlets <2mm, usually less; no sulfides.
38.50	45.00	Limonitic Altered Quartz Monzonite TR Py P4 C3 Strong orange-brown monzonite; strong, even pervasive limonitic staining; original igneous textures of feldspar-rich rock are well preserved - occasional intensely clay-altered k-spar fragments are viewed in situ; strong sericitization of matrix creates soft, felted appearance; former biotite recognized as limonite-spotted sericitic, silvery pseudomorphs and as strongly limonitic, barely recognizable wisps and shreds.

From	To	Geological Log
		<p>Strongly calcareous - carbonate mixed with sericite on chip surfaces - vigorous reaction to HCl observed in both washed and unwashed samples. Trace disseminated pyrite <1/4mm has altered completely to limonite.</p>
45.00	46.50	<p>Limonitic Quartz Monzonite C3 Monzonite, as 38.5 - 45.0m; contains abundant fresh to weakly altered biotite; transitional contacts; intensely calcareous.</p>
46.50	50.00	<p>Quartz Monzonite ->AQM 75:25 Limonitic Altered Quartz Monzonite C3 Dark blue-grey quartz monzonite; borderline between altered and unaltered phasaes, where <50% biotite remains fresh and black while other biotite has altered to silvery micaceous pseudomorphs. No secondary quartz; no sulfides. Original igneous textures are well preserved; phyric feldspar crystals weakly affected by clay alteration; very rare weak sericitization of mafic feldspar; intensely calcareous - vigorous, long lasting reaction to HCl. <25% oxidized chips - likely represent alteration envelopes along fractures.</p>

*** END OF HOLE *** 50.00

HOLE NO: RC97-1971	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 60.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	5.50	OVERBURDEN
5.50	8.50	GRAPHITIC SHALE
8.50	16.00	LIMONITIC ALTERED QUARTZ MONZONITE
16.00	22.10	LIMONITIC ALTERED QUARTZ MONZONITE
22.10	27.00	GRAPHITIC ARGILLITE
27.00	28.00	LIMONITIC ALTERED QUARTZ MONZONITE
28.00	31.20	SILTSTONE (STEEL FORMATION)
31.20	38.50	LIMONITIC ALTERED QUARTZ MONZONITE
38.50	60.00	SILTSTONE (STEEL FORMATION)
60.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	5.50	<p>Overburden =>LAQM:ARGG:SHG Overburden, as determined by drill site technician; slightly damp; no obvious indications of overburden versus rock. 0.0 - 4.1m: 50 LAQM:50 Graphitic Argillite Mixed limonitic altered quartz monzonite and weakly carbonaceous argillite; intrusive shows strong pervasive limonitic staining, weak to moderate sericitization of of feldspar-rich matrix, strong calcareous matrix and trace disseminated, completely oxidized pyrite <1/4mm; hard, balck, angular argillite shows trace limonitic surfaces and weak milky quartz stockwork. 4.1 - 5.5m: Graphitic Shale Darg grey, gummy and clay-altered, soft, strongly graphitic shale; very fine graphite is strongly evident everywhere.</p>
5.50	8.50	<p>Graphitic Shale ->ARGG Sk Gr Strongly graphitic shale grades into harder, more angular stockworked argillite; wavy original bedding can be observed in some fragments; trace oxidized patches.</p>
8.50	16.00	<p>Limonitic Altered Quartz Monzonite 4% Py P4 S2 Sk C2 Dark orange-brown and black limonitic altered quartz monzonite; <50% of chip surfaces are coated with specks and interconnected blobs of manganese oxide which appears to have coated original biotite and some former sulfides - creates dirty, 'leopard spots appearance; limonitic staining very strong and pervasive. Weak to locally moderate pervasive silicification often associated with strongest limonitic (often hematitic) staining and locally increased concentrations of oxidized pyrite; weak to locally strong, especially near upper contact, quartz stockwork - numerous cloudy quartz veinlets and veinlet fragments <1/2cm which may contain oxidized sulfides and variable strong pervasive limonitic staining; intensity of stockwork varies throughout interval. <4% completely oxidized disseminated pyrite <1/4mm evidenced by numerous dark red cubic flecks; former sulfides are often difficult to recognize due to intensity of alterations. Original igneous textures are easily recognized; strongly clay-altered, opaque, waxy, sopt, k-spar phenocrysts are occasionally recognized in situ; strong to locally intense sericitization of modal feldspar; moderately to strongly calcareous; biotite altered to limonitic, barely recognizeable shreds and to rare, silvery micaceous pseudomorphs. Lower 'contacts assigned where intensity of intense manganese oxide suddenly decreases in quantity.</p>
16.00	22.10	<p>Limonitic Altered Quartz Monzonite 3% Py P4 S2 Sk C2 Qe Dark orange limonitic altered quartz monzonite; much as 8.5 - 16.0m but lacks intense manganese oxide staining; manganese oxide is still observed as sub-mm thick coatings on several surface. Strong, even pervasive limonitic staining; porphyritic textures are well preserved - orange-stained to creamy, opaque, strongly clay-altered k-spar phenocrysts <4mm with occasional dendritic manganese oxide tracings are offer viewed in situ; unit has opaque, felted, recrystallized appearance; biotite altered to silvery sericitic pseudomorphs and barely recognizeable limonitic shreds; trace clear lensoidal quartz eyes <3mm. Weak pervasive silicification, as 8.5 - 16.1m; weak to locally moderate quartz stockwork, as above. <3% disseminated pyrite <1/4mm, completely oxidized - not identified on all chips; higher sulfide content likely exists, but alteration makes some features unidentifiable; trace weakly oxidized disseminated pyrite.</p>
22.10	27.00	<p>Graphitic Argillite Gr Black argillite; strongly graphitic - fine graphite crystals are identified on all surfaces and unit has a strong, oily graphitic sheen; chips are hard and angular; original fine bedding laminations are faintly recognizeable locally; weak quartz stockwork; rare limonitic blebs; soft and shale-like locally, especially toward lower contact.</p>

From	To	Geological Log
27.00	28.00	<p>Limonitic Altered Quartz Monzonite ->AQM 4% Py P1 C2 Qe Borderline phase between limonitic and non-limonitic altered quartz monzonite; all chips show some degree of pervasive limonitic staining but it is generally very weak, causing yellowish orange colouration to unit. Moderately to intensely calcareous - slow starting reaction to HCl intensifies with time; strong sericitization of modal feldspar; original phytic textures are observed locally. >4% fine disseminated pyrite <1/4mm and trace cubic striated pyrite >1/4mm - usually very weakly oxidized along margins to rarely more strongly oxidized; trace fresh disseminated pyrite of both smaller and larger phases. <1% clear quartz eyes <3mm; no silicification or stockwork.</p>
28.00	31.20	<p>Siltstone (Steel Formation) 80:20 Argillite TR Py P0 C2 Medium grey to faintly orange fine grained, equigranular, calcareous Steel Formation siltstone, as seen in RC97-1970; very strong reaction to HCl creates visible gas with strongly fetid odour; interfingered with <20% slightly siliceous, non-carbonaceous argillite; micro-fractures lined with black material; occasional limonitic fractures. Trace fresh disseminated pyrite <1/10mm to 1/4mm - rarely with weak to moderate oxidation.</p>
31.20	38.50	<p>Limonitic Altered Quartz Monzonite 95:5 Limonitic Quartz Monzonite 4% Py P4 C3 Dark orange-brown limonitic altered quartz monzonite; <5% fragments contain fresh black biotite - especially near upper contact. Strong, even pervasive limonitic staining; original textures are identifiable, but phytic textures are not well preserved - k-spar phenocrysts, when observed, are always intensely clay-altered; strongly sericitic and calcareous feldspar-rich matrix - felted appearance; can be scratched with fingernail. <4% euhedral pyrite and rare larger crystals show complete alteration to limonite and may be coated with manganese oxide locally. No secondary quartz; biotite altered to silvery micaceous pseudomorphs and to limonitic, poorly preserved shreds.</p>
38.50	60.00	<p>Siltstone (Steel Formation) TR Py P0 C2 Medium grey, very fine grained, equigranular Steel Formation siltstone; weak limonitic staining on fractures and rare pervasive limonitic staining; minor (<5%) non-graphitic argillite; strongly calcareous; micro-fractures lined with black; trace disseminated pyrite cubes, completely altered to limonite, <1/10mm - not common; trace and common fresh clusters and disseminations of pyrite <1/10mm on occasional fractures; trace specks of manganese oxide - quantity increases to lower contact.</p>

*** END OF HOLE *** 60.00

HOLE NO: RC97-1972	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 70.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	8.00	OVERBURDEN
8.00	13.00	LIMONITIC ALTERED QUARTZ MONZONITE
13.00	20.00	LIMONITIC ALTERED QUARTZ MONZONITE
20.00	22.50	ARGILLITE
22.50	37.50	LIMONITIC ALTERED QUARTZ MONZONITE
37.50	38.20	ALTERED QUARTZ MONZONITE
38.20	42.10	LIMONITIC ALTERED QUARTZ MONZONITE
42.10	50.00	ARGILLITE
50.00	51.00	GRAPHITIC ARGILLITE
51.00	53.00	ARGILLITE
53.00	56.00	SILTSTONE (STEEL FORMATION)
56.00	59.00	LIMONITIC ALTERED QUARTZ MONZONITE
59.00	61.50	SILTSTONE (STEEL FORMATION)
61.50	65.20	GRAPHITIC ARGILLITE
65.20	70.00	SILTSTONE (STEEL FORMATION)
70.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	8.00	<p>Overburden =>LAQM:ARG Overburden, as determined by drill site technician. Mixed lithologies - dominantly limonitic altered quartz monzonite and non-graphitic argillite; partially damp and contains minor organics. LAQM: Strong pervasive limonitic staining; good phyrlic texture well preserved - variable clay alteration of k-spar phenocrysts <4mm; rare clear quartz eyes <3mm; 4% completely oxidized disseminated pyrite; strong sericitization; rare fresh black biotite. ARG: Intermixed non-carbonaceous argillite and shale; minor clay and limonite staining on fractures.</p>
8.00	13.00	<p>Limonitic Altered Quartz Monzonite 60:40 Argillite 4% Py P4 C1 Qe Dark orange-brown limonitic altered quartz monzonite with <40% black argillite; unwashed samples are partially damp which may indicate deeper overburden or contamination. Monzonite shows strong, even, pervasive limonitic staining, occasionally with reddish hue; original igneous textures well preserved with clay-altered k-spar phenocrysts <3mm occasionally viewed in situ; modal feldspar shows strong sericitization and moderate to strong carbonate; grain boundaries are easily recognized; <4% fine disseminated pyrite <1/4mm; most strongly altered fragments are easily crushed with pressure from fingernail. Argillite is non-carbonaceous to weakly graphitic locally; minor shale component; weak mm-scale milky quartz stockwork; chips are hard and angular.</p>
13.00	20.00	<p>Limonitic Altered Quartz Monzonite 4% Py P4 C1 Medium orange limonitic altered quartz monzonite; moderate pervasive limonitic staining; original textures are well preserved although phyrlic minerals, such as clay-altered k-spar, are very rarely observed in situ. Modal feldspar shows weak alteration to sericite; biotite altered to powdery limonitic masses from which original form is barely discernible; rare silvery micaceous pseudomorphs. >4% fine grained, disseminated, subhedral cubic pyrite <1/4mm shows complete to near complete oxidation to limonite; very rare trace pyrite <1mm also shows complete oxidation. Weakly to moderately calcareous. Alterations intensify with depth.</p>
20.00	22.50	<p>Argillite S2 Sk Dark grey siliceous and silicified non-graphitic argillite; most chips show pervasive silicification or are cut with discrete quartz veinlets; much of the secondary quartz shows weak to moderate limonitic staining; several fractures with limonitic and hematitic patina; occasional micro-brecciation; no visible sulfides.</p>
22.50	37.50	<p>Limonitic Altered Quartz Monzonite TR Py P4 C2 Limonitic altered quartz monzonite; all chips show pervasive limonitic staining but intensity is quite variable, ranging from pale yellow-orange to deep red-orange; staining tends to even out and intensify with depth. Original textures are well preserved; partially to completely clay-altered k-spar phenocrysts <3mm (rarely to 1/2cm), often with fine dendritic manganese oxide coating, are frequently seen in situ; trace clear quartz eyes <3mm are also observed; modal feldspar shows strong sericitization which creates opaque, felted appearance; moderately to strongly calcareous matrix. Trace localized silicification - associated with hematitic staining. <1% limonite pseudomorphs of pyrite <1/4mm - total quantity of former sulfides is likely under-represented as alteration tends to overprint and destroy evidence; manganese oxide is often seen coating former sulfides. Manganese oxide is increasingly abundant below 30.0 m, coating fractures, some former sulfides and forming dendritic patterns on rare, larger k-spar phenocrysts. Biotite altered to silvery micaceous pseudomorphs and more commonly to barely identifiable, ragged powdery limonitic shreds. 34.0 - 36.0m: 10% non-graphitic argillite.</p>

From	To	Geological Log
37.50	38.20	<p>Altered Quartz Monzonite 5% Py P0 C2 Light grey altered quartz monzonite; as 22.5 - 37.5m but lacking pervasive limonitic staining; minor limonitic staining as mm-scale envelopes along fractures; strongly calcareous matrix; rare weak sericitization of modal feldspar; k-spar phyrlic textures observed locally. >5% greyish, fine grained disseminated pyrite <1/4mm - rarely showing weak oxidation along outer edges; note: quantity of sulfide in unit suggests that sulfide content in adjacent units is probably as high as 5%.</p>
38.20	42.10	<p>Limonitic Altered Quartz Monzonite 5% Py P3 C2 As 37.5 - 38.2m, but with strong, even pervasive limonitic staining; original grain boundaries smoothed; phyrlic textures very poorly preserved; chip surfaces coated with fine powdery carbonate and limonite-stained sericite after modal feldspar; biotite altered to powdery orange-stained shreds and rarer well preserved powdery silver and white pseudomorphs; no quartz eyes; no secondary quartz. 3 - 5% pyrite completely oxidized to dark red limonite <1/4mm seen on several, but not all, chips; intensity of oxidation decreases toward upper contact where alteration to limonite is partial and may affect only the sulfide rims; pyrite/limonite cubes are also occasionally coated with manganese oxide.</p>
42.10	50.00	<p>Argillite 60:30 SST:10 Graphitic Argillite TR Py P4 C1 Dark grey to black, hard, angular, non-graphitic argillite intermixed with <40% weakly calcareous, greyish Steel Formation siltstone (?). Argillite is siliceous and hosts very weak milky quartz stockwork; several surface show dark orange limonitic patina and surface pits show sericite. Siltstone is slightly softer, unsilicified but rarely hosts hairline quartz veinlets; trace ultra fine (<1/10mm) completely oxidized disseminated pyrite. <10% graphitic argillite and shale from 46.0m; graphitic fragments have good greasy sheen and will mark paper. 48.0 - 50.0m; Dominantly Steel Formation siltstone; most surfaces are limonitic and some chips show pervasive limonitic staining.</p>
50.00	51.00	<p>Graphitic Argillite Gr Black graphitic argillite; hard, angular and un-stockworked; soft and very dirty graphitic shale component; graphite tends to obliterate most original features and textures.</p>
51.00	53.00	<p>Argillite 90:10 Graphitic Argillite Black non-graphitic argillite intermixed with <10% graphitic argillite; all fragments are hard, angular and siliceous; hosts very weak milky quartz stockwork.</p>
53.00	56.00	<p>Siltstone (Steel Formation) TR Py P4 C1 Medium grey Steel Formation siltstone; intermixed with minor non-graphitic argillite; several surfaces show minor oxidation and limonitic patina; hosts weak hairline quartz stockwork; weakly calcareous; chips often large and angular and also as more typical small platy fragments. Trace ultra fine (<1/10mm) disseminated pyrite completely oxidized to dark red limonite cubic flecks.</p>
56.00	59.00	<p>Limonitic Altered Quartz Monzonite 5% Py P3 C2 Rich orange limonitic altered quartz monzonite; pervasive limonitic staining is strong and even; unit has good sub-vitreous lustre which is not obscured by sericitization of matrix feldspar; original igneous textures are easily defined although whitish, waxy, strongly clay-altered feldspar phenocrysts are very rarely observed in situ; no quartz eyes. Unit is non-silicified but rare fragments show mm-scale quartz veinlets; matrix is moderately calcareous - reaction to HCl is slow to start but builds in intensity with time. 5% disseminated cubic pyrite <1/4mm (rarely larger) has altered nearly completely to completely (as dark red flecks of limonite) to oxide; larger crystals (possible different phase, but close in size and occurrence to smaller crystals) tend to be slightly less oxidized; evidence of sulfides is very strong - all chips show sulfide crystals or pseudomorphs; other intervals in this</p>

From	To	Geological Log
		hole and RC97-1970 and RC97-1971 do not show such visible sulfides.
59.00	61.50	Siltstone (Steel Formation) C2 Steel Formation siltstone; medium grey to faintest orange; most surfaces show weak oxidized patina; very weak clay alteration; some fragments can be scratched with fingernail; rare mm-size opaque, white, soft veinlets; hairline fractures lined with manganese oxide; sub-mm flecks of manganese oxide as rare specks on surfaces - may represent ultra fine disseminated sulfides; original bedding evident in several chips; moderately calcareous - strongest reaction to HCl from unwashed sample.
61.50	65.20	Graphitic Argillite Gr Black silty argillite; weakly carbonaceous to obviously graphitic; fragments are hard and angular but some edges show smoothing; minor sericite and/or limonite on a few surfaces.
65.20	70.00	Siltstone (Steel Formation) 60:40 ARG+ARGG C2 Intermixed Steel Formation siltstone and carbonaceous and non-carbonaceous argillite; see 59.0 - 61.5 m and 61.5 - 65.2m descriptions; un-stockworked; non-silicified; no visible sulfides.

*** END OF HOLE *** 70.00

HOLE NO: RC97-1973	SECTION:22965	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	50.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	22/9/97		
Date finished:	22/9/97		
Logged by:	J HANSON		
Relogged by:			
Sampled by:	CLAY		

*** COLLAR COORDINATES AND RL ***

SURVEYED 19613.70mN 22965.00mE 808.10RL

Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 22
 Top of fresh rock: 46
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	6.00	COLLUVIUM
6.00	11.00	LIMONITIC ALTERED QUARTZ MONZONITE
11.00	19.00	SILTSTONE (EARN GROUP)
19.00	22.50	LIMONITIC ALTERED QUARTZ MONZONITE
22.50	24.00	ALTERED QUARTZ MONZONITE
24.00	26.00	QUARTZ MONZONITE
26.00	34.00	LIMONITIC ALTERED QUARTZ MONZONITE
34.00	36.00	LIMONITIC ALTERED QUARTZ MONZONITE
36.00	40.00	ALTERED QUARTZ MONZONITE
40.00	44.00	ALTERED QUARTZ MONZONITE
44.00	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	6.00	Colluvium Overburden
6.00	11.00	Limonitic Altered Quartz Monzonite C1, S0, P4, P3, tr py, 7% Lm Medium orange / brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration. Few remaining white micas, or remnants of white micas, and feldspar appear unaltered. Fine grained disseminated pyrite is mostly intensely oxidized, or may rarely occur strongly oxidized, to manganese oxide. Limonite alteration decreases somewhat with depth and there is 5% altered quartz monzonite with limonite on fracture surface 8-10m. Rare dark grey quartz eyes. Unit is very weakly calcareous .
11.00	19.00	Siltstone (Earn Group) CO, S0, P4, 1% Lm Mostly dark grey, and 10% light grey siltstone with limonite on most fracture surface . Few chips weathered a tan color ; most of these are at bottom contact. Minor unit limonitic altered quartz monzonite 12-14.
19.00	22.50	Limonitic Altered Quartz Monzonite C1, S0, P4, 6% Lm Brown limonitic altered quartz monzonite with pervasive limonite alteration. There are white micas, and rare strongly clay altered feldspar phenocrysts. Fine grained disseminated pyrite is intensely oxidized to manganese oxide. Chips are weakly calcareous .
22.50	24.00	Altered Quartz Monzonite C1, S0, P3, tr py, tr Lm Tan colored altered quartz monzonite has limonite on fracture surface of few chips, and white micas often coated with limonite . Feldspar are mostly weakly altered, occasionally chips have strongly clay altered feldspar . Fine grained disseminated pyrite is mostly strongly oxidized to manganese oxide or may also occur intensely oxidized . Trace coarse grained py is also strongly oxidized to iron oxide . Chips are weakly calcareous .
24.00	26.00	Quartz Monzonite 80:20 Limonitic Quartz Monozite C1, S1, P0, tr py, tr Lm Medium grey Quartz Monzonite has black biotite that is fresh, or may also occur weakly to moderately altered to white mica around outer edges. Chips are weakly quartz flooded. Trace fine grained py is fresh. Limonitic Quartz Monozite has very weak limonite alteration, sometimes more intense on fracture surface , and mostly fresh black biotite .
26.00	34.00	Limonitic Altered Quartz Monzonite 70:30 Altered Quartz Monzonite C1, S0, P4, P3-P2, tr py, 4% Lm Light orange / brown limonitic altered quartz monzonite with pervasive limonite alteration has few remaining remnants of white micas, and strongly clay altered white feldspar phenocrysts. Argillic alteration of feldspar seems to increas with depth. Fine grained disseminated pyrite is intensely oxidized to manganese oxide. Tan or very light grey altered quartz monzonite also has strongly clay altered feldspar . Fine grained disseminated pyrite here is equally strongly or moderately oxidized to manganese oxide. Unit is very weakly calcareous .
34.00	36.00	Limonitic Altered Quartz Monzonite C1, S0, P4, 6% Lm Mixture of light orange / brown , and dark brown limonitic altered quartz monzonite chips with pervasive limonite alteration. There are few remaining micas, and strong argillic alteration of feldspar phenocrysts to white clay. Fracture surface of darker chips are coated with manganese oxide from intensely oxidized pyrite. Chips are very weakly calcareous .
36.00	40.00	Altered Quartz Monzonite 70:30 Limonitic Altered Quartz Monzonite C1, S0, P3, tr py, 2% Lm Mixture of tan and light grey altered quartz monzonite , with light orange / brown limonitic altered quartz monzonite . Altered Quartz Monzonite has limonite on fracture surface of few chips, few micas. Moderate to strong clay alteration of feldspar phenocrysts in most chips. Trace fine grained pyrite is strongly or moderately oxidized to manganese oxide. Coarse grained cubic pyrite 38-40 is fresh. Few chips with black biotite 38-40. Limonitic Altered Quartz Monzonite mostly at upper contact. It has no micas, and feldspar are strongly altered to white clay. Trace manganese oxide on fracture surface from intensely oxidized py . Unit has very weak and delayed reaction to HCl.
40.00	44.00	Altered Quartz Monzonite C0, S1, P3, P0, 2% py, tr Sb, 1% Lm Tan and very light grey altered quartz monzonite has strong orange limonite on fracture surface of many chips. There are very few remaining micas, and feldspar phenocrysts are moderately to strongly clay altered. Fine grained disseminated py is mostly strongly oxidized to manganese

From	To	Geological Log
		oxide , or occasionally intensely oxidized on limonite surfaces. 42-44 light grey altered quartz monzonite with fine grained py on outer edges of micas that is fresh, or tarnished . 5% chips are dark grey quartz flooded altered quartz monzonite that has very fine grained py and stibnite in veinlets and blebs. Few chips translucent quartz 42-44.
44.00	50.00	Graphitic Argillite C0, S0, P0, 1% py Dark grey graphitic argillite is somewhat soft and easily broken. Traces os limonite at upper contact, otherwise trace fine grained disseminated is fresh.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1974 SECTION: 22965 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE : MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 56.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	22/9/97
Date finished:	22/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	CLAY & ROB

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19589.00mN 22964.10mE 807.40RL

Pre-collar depth: 50 Final depth: 56.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 6 M
 Comments: MOVED 3M WEST ; POOR PAD

Material left in hole: NONE
 Base of complete oxidation 32
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	9.00	SHALE
9.00	23.00	LIMONITIC ALTERED QUARTZ MONZONITE
23.00	24.00	GRAPHITIC SHALE
24.00	28.00	LIMONITIC ALTERED QUARTZ MONZONITE
28.00	30.00	SILTSTONE (EARN GROUP)
30.00	33.00	LIMONITIC ALTERED QUARTZ MONZONITE
33.00	34.00	ALTERED QUARTZ MONZONITE
34.00	40.00	QUARTZ MONZONITE
40.00	50.00	ALTERED QUARTZ MONZONITE
50.00	53.00	ALTERED QUARTZ MONZONITE
53.00	56.00	ALTERED QUARTZ MONZONITE
56.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	Colluvium Overburden
4.00	9.00	Shale C0, S0, P4, 1%, Lm Dark grey shale, with minor units graphitic argillite, is very soft and easily crushed. Limonite on fracture surface of many chips.
9.00	23.00	Limonitic Altered Quartz Monzonite C1, S0, -S1, P4, tr py, 6% Lm Medium orange / brown limonitic altered quartz monzonite has pervasive limonite alteration. No micas, and feldspar are mostly weakly clay altered. Mng oxide from intensely oxidized py is most abundant at upper contact, but is throughout unit. 20-22 coarse grained cubic py is tarnished, and intensely oxidized to reddish iron oxide on fracture surface. Minor unit dark grey altered quartz monzonite 16-18 with fine grained pyrite moderately oxidized. Interbedded throughout with minor units dark grey siltstone. Weakly silicified at 16-18 with dark grey quartz eyes, and at bottom contact 20-23 with quartz flooding, and translucent quartz chips. Immediate weak to moderate reaction to HCl
23.00	24.00	Graphitic Shale C0, S1, P4, tr Lm Interbedded with medium grey silicified ? Siltstone (Earn Group). Shale is very soft and easily crushed. Limonite on surfaces of many chips.
24.00	28.00	Limonitic Altered Quartz Monzonite 60:40 Siltstone (Earn Group) C0, S1, P4, P3, tr py, 5% Lm Limonitic Altered Quartz Monzonite is similar to above unit but has been silicified with weak quartz flooding. Fine grained py has been intensely or strongly oxidized to manganese oxide. It is interbedded with dark grey and med grey siltstone that is somewhat soft and can be easily broken. Siltstone has limonite on surfaces of most chips.
28.00	30.00	Siltstone (Earn Group) C0, S0, P4, P3, 1% Lm Siltstone is a mixture of mostly dark grey chips, and weathered chips that are medium grey, and tan colored. Limonite is on surfaces of most chips, and there is manganese oxide on fracture surface as well from mostly intensely oxidized pyrite, and strongly oxidized pyrite.
30.00	33.00	Limonitic Altered Quartz Monzonite C0, S0, P4, P3, tr py, 5% Lm Light to medium orange / brown Limonitic Altered Quartz Monzonite has pervasive limonite alteration. There are no micas, and feldspar phenocrysts are weakly to moderately clay altered to white clay. Fine grained py is equally intensely or strongly oxidized to manganese oxide. Few chips light grey altered quartz monzonite with green mineral; fuchsite?
33.00	34.00	Altered Quartz Monzonite C1, S0, P3, tr py, tr Lm Very light grey altered quartz monzonite has remnants of silvery micas, and mostly unaltered feldspar; occasionally weakly clay altered. Chips are weakly silicified from quartz flooding. Trace fine grained disseminated py is mostly strongly oxidized; pyrite also rarely occurs tarnished.
34.00	40.00	Quartz Monzonite C1, S1, P0, tr py Dark grey Quartz Monzonite has mostly fresh black biotite, and limonite on fracture surface of few chips throughout. 38-40 1/2 chips Quartz Monzonite are white, with weakly altered black biotite. Unit weakly silicified with quartz flooding, and few white quartz chips from veins. Trace fine grained py is fresh. Immediate weak to moderate reaction to HCl.
40.00	50.00	Altered Quartz Monzonite C1, S0, P3, P2, tr py, tr Lm Light grey altered quartz monzonite with limonite on fracture surface of many chips to a depth of 46m; limonite rare 46-50. There are few micas, and most feldspar are moderately to strongly altered to white clay. Trace fine grained py is strongly oxidized, or may also occur moderately oxidized. Most fine grained py occurs 46-48. Delayed and weak reaction to HCl.
50.00	53.00	Altered Quartz Monzonite C1, S1, P3-P2, P0, 1% py, 1% Sb, tr Lm Mixture of mostly light grey, and tan Altered Quartz Monzonite with limonite on fracture surface of many chips. There are few micas, and feldspar phenocrysts are mostly unaltered; or strongly clay altered in few chips. Fine grained disseminated pyrite is equally strongly oxidized to manganese oxide, or moderately oxidized. Light grey Altered Quartz Monzonite is silicified with fine quartz stock work with limonite on outer edges, and with grey quartz chips from veins. These

From	To	Geological Log
		quartz chips have stibnite, and very fine grained pyrite that appears fresh. Altered quartz monzonite is very weakly calcareous .
53.00	56.00	Altered Quartz Monzonite C1, S1, P3, P2, tr py, tr Lm Tan altered quartz monzonite has traces of limonite on few surfaces. No micas, and mostly very weakly clay altered feldspar phenocrysts . Trace fine grained disseminated pyrite is mostly strongly oxidized to manganese oxidized , or occasionally moderately oxidized . Trace translucent quartz chips. Immediate, weak reaction to HCl.

*** END OF HOLE *** 56.00

HOLE NO: RC97-1975	SECTION:22975	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 56.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	22/9/97
Date finished:	22/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB

*** COLLAR COORDINATES AND RL ***

SURVEYED 19561.00mN 22974.50mE 799.50RL

Pre-collar depth: 50 Final depth: 56.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 6M
 Comments: EXTENDED HOLE 6M IN AQM

Material left in hole: NONE
 Base of complete oxidation 26
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	26.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	8.00	COLLUVIUM
8.00	26.00	GRAPHITIC SHALE
26.00	36.00	LIMONITIC ALTERED QUARTZ MONZONITE
36.00	39.00	LIMONITIC ALTERED QUARTZ MONZONITE
39.00	52.00	LIMONITIC ALTERED QUARTZ MONZONITE
52.00	56.00	ALTERED QUARTZ MONZONITE
56.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	8.00	Colluvium Overburden
8.00	26.00	Graphitic Shale C0, S1, P4, P3, tr py, 1% Lm Dark grey graphitic shale interbedded with minor units graphitic argillite. Very weak silicification from white quartz stock work, often with limonite on outer edges. Shale has limonite on fracture surface of many chips throughout, as well as some fracture surface with very fine grained py visible under coating of limonite. At bottom contact 22-26 limonite occurs on fewer fracture surface and rock appears fresher.
26.00	36.00	Limonitic Altered Quartz Monzonite C1, S0, P3-P1, tr py, tr Sb, 4% Lm Medium orange / brown Limonitic Altered Quartz Monzonite. Limonite alteration is weak at upper contact and becomes somewhat more intense with depth. There are few remaining micas; they are mostly at 26-32, and frequently coated with limonite. Feldspar are mostly unaltered but there is locally strong argillic alteration. Oxidation of pyrite is weak at upper contact; mostly fine grained, and coarse grained cubic pyrite is tarnished or moderately oxidized. Oxidation becomes more intense with depth and at bottom contact most fine grained and coarse grained cubic py is strongly oxidized. Stibnite, and minor unit light grey Altered Quartz Monzonite with limonite on fracture surface at 34-36. Chips are weakly calcareous at upper contact; less calcareous with depth.
36.00	39.00	Limonitic Altered Quartz Monzonite C0, S0, P4, 4% Lm Limonitic Altered Quartz Monzonite is very brown, with pervasive limonite alteration. There are white micas, and feldspar phenocrysts are moderately to strongly altered to white clay. Trace manganese oxide from intensely oxidized pyrite.
39.00	52.00	Limonitic Altered Quartz Monzonite 90:10 Altered Quartz Monzonite C1-C0, S0, P3-P1, tr py, tr Sb, 4% Lm Dull orange / brown, occasionally very dark brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration. There are remnants of white micas, and feldspar phenocrysts are moderately to strongly altered; intensely altered below 48m to white clay. Only trace manganese oxide throughout from strongly oxidized py. Very light grey altered quartz monzonite is interbedded mostly below 44m. 48-52 altered quartz monzonite has tarnished or fresh fine grained and coarse grained pyrite. Stibnite chip 42-44. Unit very weakly calcareous to 44m; non calcareous below that.
52.00	56.00	Altered Quartz Monzonite C1, S1, P3-P2, tr py, tr Lm Altered Quartz Monzonite is a mixture of tan colored and light grey chips, with traces of limonite, few micas, and feldspar phenocrysts that are moderately to strongly altered to white clay. Fine grained disseminated py is strongly or moderately oxidized to manganese oxide. 54-56 some altered quartz monzonite chips appear silicified. Unit is very weakly calcareous; barely audible.

*** END OF HOLE *** 56.00

HOLE NO: RC97-1976 SECTION: 22925 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 64.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	22/9/97
Date finished:	22/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB & CLAY

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19610.40mN 22924.50mE 822.50RL

Pre-collar depth: 60 Final depth: 64.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 4M
 Comments: HOLE EXTENDED 4M WHEN IN AQM

Material left in hole: NONE
 Base of complete oxidation: 30
 Top of fresh rock: 56
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	3.00	COLLUVIUM
3.00	6.50	LIMONITIC ALTERED QUARTZ MONZONITE
6.50	17.00	GRAPHITIC ARGILLITE
17.00	33.00	LIMONITIC ALTERED QUARTZ MONZONITE
33.00	40.50	SILTSTONE (STEEL FORMATION)
40.50	46.00	LIMONITIC ALTERED QUARTZ MONZONITE
46.00	55.50	ALTERED QUARTZ MONZONITE
55.50	59.00	ALTERED QUARTZ MONZONITE
59.00	64.00	GRAPHITIC ARGILLITE
64.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	3.00	Colluvium Overburden
3.00	6.50	Limonitic Altered Quartz Monzonite C0, S0, P4-P3, tr py, 5% Lm Dull brown, and medium orange / brown limonitic altered quartz monzonite has pervasive limonite alteration. There are few silvery micas, often coated with limonite . Feldspar are unaltered ; rare feldspar phenocryst is strongly altered to white clay. Fine grained py is mostly all intensely oxidized to manganese oxide, or may also occur strongly oxidized . <5% light grey altered quartz monzonite has trace fine grained strongly oxidized py .
6.50	17.00	Graphitic Argillite C0, S1, P4, P3, tr py, 1% Lm Dark grey graphitic argillite is somewhat soft. Interbedded with minor units lighter grey siltstone (?). Very weakly silicified with white quartz stock work at upper and lower contacts. Stibnite, and bright red kermesite 8-10. Limonite on fracture surface of many chips throughout, as well as few fracture surface with very fine grained pyrite visible under coating of limonite .
17.00	33.00	Limonitic Altered Quartz Monzonite 90:10 Altered Quartz Monzonite C1, S0-S1, P4, P3, tr py, 5% Lm Dull orange / brown limonitic altered quartz monzonite becomes slightly lighter in color with depth ; few chips very dark 28-30. Limonite alteration is generally pervasive , and there are very few remaining micas. Feldspar are mostly unaltered but below 24m occasional feldspar are strongly clay altered. Weakly calcareous throughout ; however reaction to HCl becomes somewhat weaker with depth. Unit is silicified below 26m with light grey quartz quartz chips , and quartz veinlets 28-30. Coarse grained and fine grained py, as well as py on fracture surface is intensely oxidized to a depth of 26m ; below that fine grained py is more commonly strongly oxidized , but still is intensely oxidized on fracture surface . Light grey altered quartz monzonite is interbedded below 24m. Coarse grained py on altered quartz monzonite is less strongly oxidized , and occurs moderately oxidized . 30-32 coarse grained py is tarnished or fresh.
33.00	40.50	Siltstone (Steel Formation) C0, S0, P4, tr py, 1% Lm Mixture of medium grey, very light grey, and tan weathered chips. Limonite is on fracture surface of most chips, and sometimes pervasive in chips. Fine grained disseminated py in light grey chips is intensely oxidized to manganese oxide, and manganese oxide rarely coats fracture surface . Coarse grained py is less strongly oxidized and may occur moderately oxidized , or tarnished . 36-38 1/3 chips brownish in color, with red limonite .
40.50	46.00	Limonitic Altered Quartz Monzonite C1, S0, P3, tr py 6% Lm Medium orange / brown limonitic altered quartz monzonite has pervasive limonite alteration at upper contact ; limonite alteration weakens with depth. Silvery micas are often coated with limonite . Feldspar phenocrysts are moderately, or weakly clay altered. Trace fine grained py is mostly strongly oxidized , or rarely intensely oxidized to manganese oxide. Delayed and weak reaction to HCl.
46.00	55.50	Altered Quartz Monzonite 90:10 Limonitic Altered Quartz Monzonite C1-C0, S0, P4-P3, 1% py, 1% Lm Tan colored altered quartz monzonite has limonite on fracture surface of few chips, no micas, and moderately to strongly clay altered feldspar phenocrysts. Argillic alteration weakens with depth. 10% limonitic altered quartz monzonite is brown, often with more intense limonite , and manganese oxide, on fracture surface . Fine grained py is mostly intensely oxidized to a depth of 52m ; below that py is more commonly strongly oxidized . < 5% light grey siliceous altered quartz monzonite interbedded below 48m has fine grained and coarse grained py that is mostly fresh or tarnished . Non calcareous to 52m, then very weakly calcareous remainder of unit.
55.50	59.00	Altered Quartz Monzonite C1, S1, P0, 1% Sb, 8% py Mostly medium grey siliceous altered quartz monzonite mixed with light tan colored altered quartz monzonite. No limonite . Moderate to strong argillic alteration of feldspar . Grey altered quartz monzonite has been mineralized with 5-10% fine grained pyrite, disseminated or in veinlets , that is mostly all fresh ; occasionally moderately oxidized . 58-59 all altered quartz monzonite this dark grey (metallic looking). Tan altered quartz monzonite not minz ; trace fine grained py

From	To	Geological Log
		mostly moderately oxidized. Stibnite chip 55.5-56, and stibnite on fracture surface of few chips 56-58. Weak to moderate silicification from quartz flooding of grey altered quartz monzonite, rare fine stock work , and translucent quartz chips. Very weakly calcareous .
59.00	64.00	Graphitic Argillite C0, S1, P0, 1% py Black graphitic argillite has no limonite , and is weakly silicified with white quartz stock work . Fine grained pyrite, in veinlets or blebs, is fresh.

*** END OF HOLE *** 64.00

HOLE NO: RC97-1977 SECTION: 22925 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 52.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	23/9/97
Date finished:	23/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	CLAY & ROB

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19639.50mN 22927.60mE 822.20RL

Pre-collar depth: 60 Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status: SHORTENED 8M
 Comments: EARLY SHUTDOWN AFTER 6M INTO FOOTWALL

Material left in hole: NONE
 Base of complete oxidation 32
 Top of fresh rock: 46
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	8.00	COLLUVIUM
8.00	14.00	SHALE
14.00	17.50	LIMONITIC ALTERED QUARTZ MONZONITE
17.50	22.50	SHALE
22.50	25.00	LIMONITIC ALTERED QUARTZ MONZONITE
25.00	28.00	LIMONITIC ALTERED QUARTZ MONZONITE
28.00	37.00	LIMONITIC ALTERED QUARTZ MONZONITE
37.00	38.00	LIMONITIC QUARTZ MONOZITE
38.00	41.50	QUARTZ MONZONITE
41.50	45.50	ALTERED QUARTZ MONZONITE
45.50	60.00	GRAPHITIC ARGILLITE
60.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	8.00	Colluvium Drill tech reported overburden to 6.5 , and Limonitic Altered Quartz Monzonite to 8m ; but no sample in washed or unwashed for 6-8.
8.00	14.00	Shale C0, S0, P4, 1% Lm Dark grey siltstone is interbedded with this med grey shale. Shale is very soft and easily crushed. Bright orange limonite on many fracture surface , as well as a yellowish clay on many surfaces. Light orange / brown Limonitic Altered Quartz Monzonite 8-10.
14.00	17.50	Limonitic Altered Quartz Monzonite C1, S1, P4, tr py, 6% Lm Medium orange / brown Limonitic Altered Quartz Monzonite has pervasive limonite alteration. There are no remaining micas, and feldspar are moderately to strongly argillically altered to a soft white clay. Chips appear weakly quartz flooded, mostly at bottom contact 16-17.5. Abundant manganese oxide from mostly intensely , and occasionally strongly oxidized fine grained disseminated py . Manganese oxide occasionally coats fracture surface as well. Chips are very weakly calcareous .
17.50	22.50	Shale C0, S0 P4, P3, tr py, 1% Lm This unit similar to above unit shale. It is interbedded with minor units darker grey siltstone, and there is limonite on fracture surface of many chips, and traces of yellowish clay on many surfaces. On some fracture surface very fine grained py is visible under limonite .
22.50	25.00	Limonitic Altered Quartz Monzonite C1, S1, P4, P3, tr py, 6% Lm Medium orange / brown limonitic altered quartz monzonite with more intense limonite on many fracture surface . Limonite alteration less strong at bottom contact 24-25. There are no remaining micas. Feldspar phenocrysts are strongly argillically altered to white clay, yet most chips are quite competent due to weak quartz flooding. Fine grained disseminated py has mostly been intensely oxidized to manganese oxide, or may also occur strongly oxidized . Very weak and delayed reaction to HCl.
25.00	28.00	Limonitic Altered Quartz Monzonite 60:40 Altered Quartz Monzonite C1, S0, P4-P2, tr py, 5% Lm Medium orange / brown limonitic altered quartz monzonite with moderate limonite alteration. It has remnants of white micas, or micas coated with limonite. Feldspar are moderately to strongly clay altered. All fine grained py is intensely oxidized to manganese oxide. Altered Quartz Monzonite is light grey with limonite on few fracture surface , white micas, and weakly clay altered feldspar phenocrysts. Fine grained disseminated py is equally strongly or moderately oxidized to manganese oxide. Minor unit of very dark grey altered quartz monzonite 26-28 with white or buff colored micas, and unaltered feldspar . Occasionally there is very fine grained py within micas. Trace fine grained or coarse grained py on this altered quartz monzonite was fresh. Immediate , weak reaction to HCl ; stronger reaction 26-28.
28.00	37.00	Limonitic Altered Quartz Monzonite 50:50 Altered Quartz Monzonite C1-C0, S1, P4, P3, 3% py, tr Sb, 4% Lm Dark orange / brown limonitic altered quartz monzonite is interbedded with medium to dark grey altered quartz monzonite. Limonitic altered quartz monzonite has limonite coated micas, occasional strongly clay altered feldspar phenocrysts, and appears to have been weakly quartz flooded. 32-34 mostly limonitic altered quartz monzonite. Silicification stronger below 32m ; there are translucent and limonite stained quartz chips from quartz veins, few with euhedral quartz crystals on outer edge, and dark grey quartz stock work . Fine grained py , and py coating fracture surface is intensely oxidized to manganese oxide to 32m ; below that pyrite is mostly strongly oxidized , but may also occur intensely oxidized on fracture surface . Mostly dark grey siliceous altered quartz monzonite has limonite on fracture surface of many chips, and white micas. Feldspar phenocrysts are often strongly altered to white clay but chips remain competent due to silicification. 34-36 is mostly altered quartz monzonite . There are very dark grey (metallic looking) chips mineralized with up to 5% fine grained pyrite, or pyrite veinlets, that has been moderately oxidized to manganese oxide, or is fresh. Fine grained py , fresh or moderately oxidized to manganese oxide, is common within mica pseudomorphs in medium grey altered quartz monzonite . Stibnite in quartz veins 34-36. Traces of bright green mineral (fuchsite ?). Chips are weakly calcareous to 32m, non calcareous below .

From	To	Geological Log
37.00	38.00	Limonitic Quartz Monzonite C1, S0, P3, P1, tr py, 3% Lm Transition from above unit. Limonite alteration is weaker, and biotite here is weakly altered around outer edges, or may be moderately altered to white micas. Few chips dark grey Quartz Monzonite with weakly altered biotite, with limonite on fracture surface, as well. Trace fine grained py on limonite fracture surface is strongly oxidized to manganese oxide, or rarely may be tarnished. Chips here are weakly calcareous.
38.00	41.50	Quartz Monzonite 90:10 Limonitic Altered Quartz Monzonite C1, S0, P1, tr py, 1% Lm Medium grey Quartz Monzonite with black biotite mostly weakly to moderately altered to micas. Few biotite are fresh. Limonite is on fracture surface of few chips. Trace fine grained pyrite is tarnished. Immediate, weak reaction to HCl. 10% light orange limonitic altered quartz monzonite has white micas, and trace fine grained py that is strongly oxidized to manganese oxide.
41.50	45.50	Altered Quartz Monzonite C1, S0, P3, tr py, tr Lm Light grey altered quartz monzonite has limonite on fracture surface of many chips. There are white micas, or remnants of white micas, and feldspar are mostly moderately argillically altered to white clay. Fine grained disseminated py is mostly strongly oxidized to manganese oxide, occasionally moderately oxidized. 44-45.5 traces of very fine grained fresh py within mica on outer edges. Unit is weakly calcareous.
45.50	60.00	Graphitic Argillite C0, S0, P0, 2% py Black graphitic argillite has fine grained and coarse grained pyrite that is disseminated, or in veinlets or blebs. Pyrite is mostly fresh, rarely tarnished. No limonite. White quartz stock work 46-48.

*** END OF HOLE *** 60.00

HOLE NO: RC97-1978 SECTION: 22875 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 74.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	23/9/97
Date finished:	23/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19645.40mN 22874.90mE 840.50RL

Pre-collar depth: 70 Final depth: 74.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 4M
 Comments: EXTENDED 4M TO CONFIRM FOOTWALL

Material left in hole: NONE
 Base of complete oxidation 36
 Top of fresh rock: 66
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	8.00	LIMONITIC ALTERED QUARTZ MONZONITE
8.00	10.00	LIMONITIC ALTERED QUARTZ MONZONITE
10.00	14.00	LIMONITIC QUARTZ MONOZITE
14.00	23.00	LIMONITIC ALTERED QUARTZ MONZONITE
23.00	36.00	GRAPHITIC SHALE
36.00	37.50	LIMONITIC ALTERED QUARTZ MONZONITE
37.50	48.00	ALTERED QUARTZ MONZONITE
48.00	50.00	QUARTZ MONZONITE
50.00	62.00	ALTERED QUARTZ MONZONITE
62.00	65.00	ALTERED QUARTZ MONZONITE
65.00	74.00	GRAPHITIC ARGILLITE
74.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	Colluvium Overburden
4.00	8.00	Limonitic Altered Quartz Monzonite 70:30 Altered Quartz Monzonite C2, S0, P4, 5% Lm Dark orange / brown limonitic altered quartz monzonite with poor limonite alteration. Biotite is mostly all altered to silvery micas that are often coated with lx; few fresh biotite remain 6-8. Feldspar are unaltered, or weakly clay altered. Interbedded with medium to dark grey altered quartz monzonite , also with some fresh black biotite 6-8 . Manganese oxide on limonitic altered quartz monzonite from intensely oxidized disseminated py . Unit has an immediate moderate reaction to HCl.
8.00	10.00	Limonitic Altered Quartz Monzonite C1, S0, P4, 6% Lm Medium orange / brown limonitic altered quartz monzonite with pervasive limonite alteration. Few remaining micas, and feldspar are moderately clay altered ; occasional strong argillic alteration of feldspar phenocrysts to white clay. All fine grained py has been intensely oxidized to manganese oxide. Chips have an immediate, weak reaction to HCl.
10.00	14.00	Limonitic Quartz Monozite 70:30 Quartz Monzonite C2, S0, P4, 5% Lm Light to medium orange / brown Limonitic Quartz Monozite with pervasive limonite alteration. Biotite is mostly weakly altered around outer edges ; few chips throughout with biotite strongly altered to mica. Feldspar mostly unaltered ; lighter color chips have strong argillic alteration of feldspar to limonite stained clay. Few chips have manganese oxide on fracture surface . Interbedded with dark grey Quartz Monzonite with fresh black biotite . Alteration of biotite somewhat stronger at bottom contact 12-14. Chips are moderately calcareous .
14.00	23.00	Limonitic Altered Quartz Monzonite 90:10 Altered Quartz Monzonite C1, S0, P4, P3, tr py, 6% Lm Medium orange / brown limonitic altered quartz monzonite with pervasive limonite alteration. No remaining micas, and feldspar phenocrysts are moderately altered ; often strongly altered to white clay. Fine grained disseminated pyrite, and pyrite on fracture surface has been mostly intensely oxidized to manganese oxide, or may also occur strongly oxidized . Most manganese oxide is 14-16. Very light grey altered quartz monzonite has limonite on few fracture surface , and disseminated fine grained pyrite that is intensely oxidized . Unit has an immediate, weak reaction to HCl.
23.00	36.00	Graphitic Shale C0, S1, P4, P3, tr py, 1% Lm Dark grey shale is somewhat soft and easily crushed ; chips harder where silicified with white quartz stock work . Bright orange limonite on fracture surface of many chips throughout. Many fracture surface as well with very fine grained py visible under coating of limonite .
36.00	37.50	Limonitic Altered Quartz Monzonite C1, S1, P2-P1, 1% py, 5% Lm Medium orange / brown limonitic altered quartz monzonite has moderate limonite alteration, and few remnants of micas. Chips appear quartz flooded, and there is translucent quartz stock work . Trace fine grained py moderately oxidized to manganese oxide, or tarnished . Rarely pyrite is intensely oxidized . Very weakly calcareous .
37.50	48.00	Altered Quartz Monzonite 60:40 Limonitic Altered Quartz Monzonite C1, S1, P2, P4, 3% py, 3% Lm, tr Sb Altered Quartz Monzonite in this unit varies ; 37.5-42 it is mostly medium grey (metallic looking), and quite siliceous . It is mineralized with 5% very fine grained pyrite that appears moderately oxidized, to fresh .(Difficult to determine extent of oxidation of pyrite in grey quartz). Stibnite 37.5-42 on altered quartz monzonite or in translucent quartz chips. Fine grained pyrite within micas, or in biotite pseudomorphs common here as well. Below 42m most altered quartz monzonite is light grey or tan colored , and not so mineralized ; however fine grained py is more strongly oxidized , and coarse grained pyrite is fresh. Limonitic Altered Quartz Monzonite interbedded throughout is medium orange / brown with pervasive limonite alteration. Manganese oxide from intensely oxidized is on few fracture surface , and trace disseminated py is strongly, or intensely oxidized .

From	To	Geological Log
48.00	50.00	<p>Quartz Monzonite C1, S1, tr Lm Dark grey Quartz Monzonite has fresh black biotite , and is weakly silicified with white quartz veinlets . Limonite on fracture surface of few chips. Immediate, weak to moderate reaction to HCl. No sulphides.</p>
50.00	62.00	<p>Altered Quartz Monzonite 75:25 Limonitic Altered Quartz Monzonite C1, S0, P3, tr py, 3% Lm Tan colored altered quartz monzonite, with traces of limonite on fracture surface of few chips , and moderately to strongly clay altered feldspar phenocrysts. Trace fine grained py is strongly oxidized to manganese oxide. It is interbedded with limonitic altered quartz monzonite that is light orange / brown , or occasionally a darker brown , with pervasive limonite alteration. Most limonitic altered quartz monzonite is 50-54, then limonite alteration decreases with depth. Feldspar are frequently strongly clay altered on limonitic altered quartz monzonite as well. Fine grained pyrite, and py coating fracture surface , is intensely oxidized to manganese oxide. Unit is very weakly calcareous .</p>
62.00	65.00	<p>Altered Quartz Monzonite C1, S1, P3-P2, tr py, tr Lm Light grey altered quartz monzonite has limonite on fracture surface of few chips. 62-24. Few white micas remain, and feldspar show weak argillic alteration. Weak silicification from quartz flooding. Fine grained disseminated py is strongly, or moderately oxidized to manganese oxide. Very weakly calcareous .</p>
65.00	74.00	<p>Graphitic Argillite C0, S1, P0, 2% py Black graphitic argillite has only traces of limonite on few chips at upper contact ; rock is fresh below that. Py on fracture surface , and in veinlets is fresh, or very rarely tarnished . Weak silicification from white quartz stock work .</p>

*** END OF HOLE *** 74.00

HOLE NO: RC97-1979

SECTION:22875

GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 70.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	23/9/97
Date finished:	23/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB & CLAY

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19674.90mN 22875.80mE 839.70RL

Pre-collar depth: 70 Final depth: 70.01
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: WATER ADDED AT 58M TO FREE HAMMER

Material left in hole: NONE
 Base of complete oxidation 55
 Top of fresh rock: 70
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	8.00	COLLUVIUM
8.00	13.00	GRAPHITIC SHALE
13.00	15.00	LIMONITIC ALTERED QUARTZ MONZONITE
15.00	15.50	GRAPHITIC ARGILLITE
15.50	16.00	LIMONITIC ALTERED QUARTZ MONZONITE
16.00	17.50	GRAPHITIC ARGILLITE
17.50	21.00	LIMONITIC ALTERED QUARTZ MONZONITE
21.00	22.00	QUARTZ MONZONITE
22.00	30.50	LIMONITIC ALTERED QUARTZ MONZONITE
30.50	33.50	LIMONITIC QUARTZ MONOZITE
33.50	55.00	LIMONITIC ALTERED QUARTZ MONZONITE
55.00	61.50	ALTERED QUARTZ MONZONITE
61.50	68.00	ALTERED QUARTZ MONZONITE
68.00	70.01	GRAPHITIC ARGILLITE
70.01		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	8.00	Colluvium Overburden 2-4: argillite and limonitic altered quartz monzonite 4-8: limonitic altered quartz monzonite 6-8: laqm and shale
8.00	13.00	Graphitic Shale C0, S1, P4, 1% Lm Dark grey graphitic shale is very soft and easily crushed. Interbedded with minor units argillite. Limonite on fracture surface of 10% of chips throughout. Weak silicification from white quartz stock work 10-13.
13.00	15.00	Limonitic Altered Quartz Monzonite 40:60 Altered Quartz Monzonite C0, S2, P4, 5% Lm 13-14 limonitic altered quartz monzonite is light brown, and mixed with very light grey altered quartz monzonite. No remaining micas. Both limonitic altered quartz monzonite and altered quartz monzonite are silicified with quartz flooding, and many chips have fine light grey quartz stock work. Translucent and light grey quartz chips as well. Rare manganese oxide from intensely oxidized py; no sulphides. 14-15 limonitic altered quartz monzonite is dark orange brown, with few chips altered quartz monzonite with limonite on fracture surface. Quartz flooding occurs here as well, but quartz stock work is rare. Manganese oxide on fracture surface from intensely oxidized pyrite more frequent here at bottom contact.
15.00	15.50	Graphitic Argillite C0, S1, P4, tr Lm Weakly graphitic argillite has traces of limonite on many surfaces. Chips are weakly silicified with translucent quartz stock work; where not silicified chips are quite soft.
15.50	16.00	Limonitic Altered Quartz Monzonite C0, S1, P4, 7% Lm Same as above unit limonitic altered quartz monzonite 14-15.
16.00	17.50	Graphitic Argillite C0, S1, P4, tr Lm Graphitic argillite is somewhat soft, and has minor unit light grey, and medium grey siltstone. (Siltstone (Steel Formation)?) Weak silicification from trace quartz stock work in argillite. Limonite on fracture surface of many chips. 16-18 wet.
17.50	21.00	Limonitic Altered Quartz Monzonite C1, S1, P4, 6% Lm Dull brownish limonitic altered quartz monzonite with moderate limonite alteration; more intense on some fracture surface. Biotite has altered to white micas; they are often coated with patchy limonite. Feldspar are unaltered. Most chips are silicified from quartz flooding, few not so silicified have more pervasive limonite alteration. Manganese oxide from intensely oxidation of pyrite on many chip fracture surface. Unit has an immediate, weak reaction to HCl.
21.00	22.00	Quartz Monzonite C2, S1, tr Lm True thickness? Not noted in quick log. Dark grey Quartz Monzonite with mostly fresh black biotite; few weakly altered around outer edges. Silicified with few translucent and white quartz chips. Trace limonite on fracture surface of few chips. Immediate, moderate reaction to HCl.
22.00	30.50	Limonitic Altered Quartz Monzonite C1, S0, P4, tr py, 5% Lm Mixture of brown and light orange / brown limonitic altered quartz monzonite with pervasive limonite alteration. Few remaining biotite at upper contact with Quartz Monzonite; otherwise no biotite and few micas. Few chips light grey altered quartz monzonite at upper contact as well, with fine grained fresh pyrite. Occasional feldspar phenocrysts are moderately clay altered, or strongly altered; argillic alteration increases with depth. Manganese oxide throughout from intensely oxidized disseminated pyrite, and pyrite on fracture surface. Weakly calcareous.
30.50	33.50	Limonitic Quartz Monozite 50:50 Quartz Monzonite C1, S1, P4, tr Lm Mixture of light orange / brown Limonitic Quartz Monozite, and medium grey Quartz Monzonite, both with mostly fresh biotite. Feldspar in both rock units are mostly unaltered, but have strong argillic alteration of feldspar in about 10% of chips; Quartz Monzonite is then a very light grey color. Limonitic Quartz Monozite has weak limonite alteration but is occasionally more intensely on some fracture surface. There are traces of intensely oxidized py on these fracture surface. Immediate, weak to moderate reaction to HCl.

From	To	Geological Log
33.50	55.00	<p>Limonitic Altered Quartz Monzonite C1, S0, P4, tr py, tr Sb, 4% Lm Limonitic Altered Quartz Monzonite is dark brown at upper contact and becomes lighter with depth ; then dark brown at bottom of unit. No micas ; some biotite at 40-42. Argillic alteration of feldspar increases with depth, feldspar are often a soft white clay. Quartz chip, and stibnite 44-46 ; otherwise unsilicified. Most pyrite, disseminated or on fracture surface has been intensely oxidized to manganese oxide. Trace coarse grained py 40-46 is fresh, and minor unit white altered quartz monzonite at 48-50 with fresh coarse grained cubic pyrite. Limonitic altered quartz monzonite is weakly calcareous ; this decreases with depth.</p>
55.00	61.50	<p>Altered Quartz Monzonite C1, S0, P4, P3, tr py, 1% Lm Tan and very light grey altered quartz monzonite with limonite on fracture surface of few chips ; most limonite occurs at bottom contact 58-61.5. Few remaining micas or remnants of micas ; these are often a buff color. Feldspar phenocrysts are moderately clay altered , or occasionally strongly altered to white clay. Manganese oxide is mostly on fracture surface and is intensely oxidized , or strongly oxidized. Grey quartz chip, and veinlets 55-60 ; one has very fine grained moderately oxidized pyrite in veinlets on outer edges of quartz . Very weakly calcareous ; barely audible.</p>
61.50	68.00	<p>Altered Quartz Monzonite C1, S1, P3-P2, 1% py, tr Sb, tr Lm Light grey altered quartz monzonite has limonite on fracture surface of few chips at upper contact, and again at lower contact. There are white micas, or remnants of micas. Feldspar are mostly moderately altered to white clay, and where feldspar are less altered chips are darker grey. Unit is weakly silicified from quartz flooding, and translucent quartz chips from veinlets . Stibnite at 61.5 -62. 5% former disseminated fine grained py is equally strongly to moderately oxidized to manganese oxide, rarely tarnished . Very weakly calcareous .</p>
68.00	70.01	<p>Graphitic Argillite C1, S1, P0, 1% py Graphitic argillite and shale is somewhat soft. No limonite ; rock is fresh. Fine grained and coarse grained py on fracture surface , or in blebs is fresh. There is white quartz stock work , and rock is very weakly clacs ; barely audible.</p>

*** END OF HOLE *** 70.01

HOLE NO: RC97-1980	SECTION: 22874.9	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 70.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	29/12/97
Date finished:	29/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	CLAY TRAVIS

*** COLLAR COORDINATES AND RL ***

NOMINAL	19705.60mN	22874.90mE	836.60RL
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Pre-collar depth: Final depth: 70.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	8.50	LIMONITIC ALTERED QUARTZ MONZONITE
8.50	13.00	GRAPHITIC ARGILLITE
13.00	17.00	SILTSTONE (EARN GROUP)
17.00	43.50	LIMONITIC ALTERED QUARTZ MONZONITE
43.50	53.00	LIMONITIC ALTERED QUARTZ MONZONITE
53.00	55.00	ALTERED QUARTZ MONZONITE
55.00	61.50	LIMONITIC ALTERED QUARTZ MONZONITE
61.50	69.50	GRAPHITIC ARGILLITE
69.50	70.00	LIMONITIC ALTERED QUARTZ MONZONITE
70.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Colluvium
2.00	8.50	Limonitic Altered Quartz Monzonite C1, S1, P4, 1% Lm Medium orange/brown Limonitic Altered Quartz Monzonite. Pervasive limonite occurs throughout interval; stronger limonite occurs on fracture surfaces. Biotite from 2-4m is mixed from slightly altered to completely altered to white mica; from 4-8.5m the biotite is completely altered to white mica. Feldspars are weathered out or are silicified by Qtz flooding; very trace amount appears and is very hard when does occur. Plenty of pits in Limonitic Altered Quartz Monzonite. Pyrite is completely oxidized to MgO ₂ ; occurs as fine-grained blebs on fracture surfaces dominantly. Very weak reaction to HCl.
8.50	13.00	Graphitic Argillite C0-C1, S0-S1, P4, tr Lm Dark grey/black to black Graphitic Argillite. Weakly graphitic. Trace limonite on fracture surfaces and as "coating" in some pits. Graphitic Argillite quite pitted. Pyrite is fine-grained and is small blebs (seen on limonite) oxidized to MgO ₂ . Can't see on rest of chips if pyrite is oxidized to MgO ₂ or absent. No reaction to HCl. 20% light to medium Siltstone (Earn Group). Limonite occurs on fracture surfaces. Weakly calcareous. Pyrite is very trace and is fine-grained small blebs oxidized to MgO ₂ on a few chips. No Qtz occurs on Siltstone (Earn Group) but Graphitic Argillite has Qtz veining and some chips look flooded.
13.00	17.00	Siltstone (Earn Group) C0-C1, S1, P4, tr Lm Siltstone (Earn Group) same as 8.5-13m only more limonite on fracture surfaces, some pyrite also occurs as FeO ₂ blebs and some small Qtz veinlets occur. 10% Graphitic Argillite same as 8.5-13m.
17.00	43.50	Limonitic Altered Quartz Monzonite C1-C2, S1-S2, P4-P3, 2% Py, 1% Lm Light orange to dark reddish/brown Limonitic Altered Quartz Monzonite. Limonite pervasive in all chips; stronger on fracture surfaces and "coating" on some chips 34-40m. From 28-30m the chips are very light orange to reddish/brown; from 34-40m are all darker chips; the rest of the intervals go from light of medium orange with the odd chip that is dark orange. From 17-22m the chips are slightly flooded by Qtz and are more siliceous than the rest of the interval; Qtz chips occur in all intervals. Pyrite occurs as fine-grained blebs oxidized to MgO ₂ ; dominantly on fracture surfaces. From 24-43.5m more MgO ₂ than from 17-24m. A little less from 30-32m. In entire interval there is also specks of MgO ₂ . From 18-20m and 30-32m there is some fine-grained blebs which are moderately oxidized to MgO ₂ . From 24-40m there are also fine-grained pyrite in small blebs and specks oxidized to FeO ₂ . From 28-30m and 36-40m there are reddish chips with abundant FeO ₂ ; slightly siliceous. Biotite throughout is completely altered to white mica. Feldspar from 20-43.5m have been flooded and feldspar eyes and chips in each interval and are weakly altered to clay. Feldspars are not stained by limonite. From 30-34m the intervals are moderately calcareous and other intervals are weakly calcareous.
43.50	53.00	Limonitic Altered Quartz Monzonite C2, S3, P4, tr Lm Tan white to light/medium orange Limonitic Altered Quartz Monzonite. Limonite is weakly pervasive throughout with darker limonite on portions of some chips. Biotite are weathered out or flooded out with some chips still containing completely altered biotite to white mica. From 52-53m the biotite is moderately altered to white mica. Feldspars are quite abundant and are probably secondary as eyes and chips which are weakly altered to clay. Feldspars not stained by limonite. Chips are all quite siliceous by Qtz flooding; especially for white chips. Weak to moderately strong reaction to HCl. Pyrite occurs as fine-grained blebs and specks oxidized to MgO ₂ .
53.00	55.00	Altered Quartz Monzonite C2, S2, P4-P2, tr Py, tr Lm Medium grey/greenish Altered Quartz Monzonite. Strong reaction to HCl. Biotite weakly to moderately altered to white mica. Feldspar are scarce and are slightly altered to clay. Pyrite occurs on a few chips as slightly tarnished fine-grained blebs and also occurs as specks that are oxidized to FeO ₂ . The FeO ₂ is the only limonite occurring. Qtz flooding is seen.

From	To	Geological Log
55.00	61.50	Limonitic Altered Quartz Monzonite C1, S3, P4-P3, tr Py, tr Lm Light white/tan to light tan/orange Limonitic Altered Quartz Monzonite. Slightly pervasive with limonite slightly on fracture surfaces 58-60m. Biotite is completely altered to white mica and then silicified making white ghosts instead of the "silvery" white mica. Feldspars are secondary and very weakly altered to clay; abundant and very white (not Qtz eyes). Weakly calcareous. Pyrite occurs as very trace specks which are oxidized to FeO ₂ . Pyrite also occurs as small specks and small blebs of fine-grained pyrite oxidized strongly to MgO ₂ . Some silification has occurred over some blebs. Strong silicification has occurred.
61.50	69.50	Graphitic Argillite C0-C1, S1, P2, tr Py, tr Lm Black Graphitic Argillite. Limonite on a few fracture surfaces of a few chips 64-66m. No limonite elsewhere. Non-calcareous. Some Qtz veinlets in chips. Pyrite occurs as fine-grained small blebs. Slightly tarnished; from 64-66m there are pyrite stringers on a few chips which are fine-grained and fresh to slightly tarnished. Dark grey to black Siltstone (Earn Group). No limonite. Moderately calcareous. Pyrite is very trace and is fine-grained and disseminated. No Qtz seen.
69.50	70.00	Limonitic Altered Quartz Monzonite C1, S3, P3, tr Py, tr Lm Same as 55-61.5m.

*** END OF HOLE *** 70.00

HOLE NO: RC97-1981	SECTION:22815	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 72.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	24/9/97
Date finished:	24/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	CLAY & ROB

*** COLLAR COORDINATES AND RL ***

SURVEYED	19665.60mN	22815.60mE	844.90RL
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Pre-collar depth: 60 Final depth: 72.00
 Purpose of hole: EXPLORATION
 Hole status: EXTENDED 12M
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 26
 Top of fresh rock: 56
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	2.50	COLLUVIUM
2.50	8.00	LIMONITIC ALTERED QUARTZ MONZONITE
8.00	19.00	LIMONITIC ALTERED QUARTZ MONZONITE
19.00	26.00	GRAPHITIC ARGILLITE
26.00	31.00	LIMONITIC ALTERED QUARTZ MONZONITE
31.00	33.00	GRAPHITIC ARGILLITE
33.00	72.00	ALTERED QUARTZ MONZONITE
72.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.50	Colluvium Overburden
2.50	8.00	Limonitic Altered Quartz Monzonite 70:30 Altered Quartz Monzonite C1, S0, P4, P0, tr py mixture of light orange / brown Limonitic Altered Quartz Monzonite with moderate limonite alteration, and medium grey Altered Quartz Monzonite that has traces of limonite on fracture surface . Limonitic altered quartz monzonite has white micas that are often coated with limonite , and feldspar are mostly unaltered ; chips are very hard. Fine grained disseminated py has been intensely oxidized to manganese oxide , and coarse grained cubic py has been mostly intensely oxidized to iron oxide. Altered quartz monzonite (most 6-8) , has silvery micas, and unaltered feldspar . Fine grained py is intensely oxidized to manganese oxide 2-4, or may be rarely fresh below 4m, and 4-8 coarse grained pyrite occurs mostly fresh, or may be tarnished . Unit has an immediate, weak reaction to HCl.
8.00	19.00	Limonitic Altered Quartz Monzonite 80:20 Altered Quartz Monzonite C1, S1, P4, P1-P0, 4% py, 4% Lm Medium to light orange / brown limonitic altered quartz monzonite has poor limonite alteration that decreases with depth. Limonite alteration is often more intense on fracture surface . There are remnants of white micas that are usually coated with limonite . Feldspar are mostly unaltered but locally may be strongly argillically altered to limonite stained clay. Fine grained py that is intensely oxidized to manganese oxide is disseminated 8-12, and mostly on fracture surface throughout (fine grained py at bottom contact 16-18 is strongly oxidized). Otherwise, up to 4% coarse grained py is poorly oxidized ; mostly tarnished or fresh. 15% Altered Quartz Monzonite is light grey, or white where feldspar are strongly clay altered. There are remnants of white micas, and traces of limonite . Fine grained py is occasionally intensely oxidized to manganese oxide, however fine grained and coarse grained py is mostly tarnished or fresh. Unit is very weakly silicified with few translucent quartz chips from quartz veins. Immediate, weak reaction to HCl. Minor unit soft light grey shale 10-12.
19.00	26.00	Graphitic Argillite C0, S1, P4, 1% Lm Graphitic Argillite is interbedded with shale. Argillite is somewhat soft ; chips harder where weakly silicified with translucent and white quartz stock work , and veins. Limonite is on many surfaces, or on quartz . Shale has limonite between laminations, or very fine grained disseminated py is intensely oxidized to limonite . Less limonite on chips at bottom contact, and one chip there coated with coarse grained fresh pyrite.
26.00	31.00	Limonitic Altered Quartz Monzonite C1, S1, P3-P0, 3% py, 4% Lm light orange / brown limonitic altered quartz monzonite with poor limonite alteration ; sometimes stronger on fracture surface . There are few remaining remnants of white micas, and fine grained and phenocryst feldspar are often strongly argillically altered to white clay. Fine grained disseminated py is mostly strongly oxidized to manganese oxide, or may occur moderately oxidized or tarnished . Coarse grained pyrite is mostly tarnished or fresh. Unit is silicified with clear quartz eyes, and rare fine stock work . Delayed and weak reaction to HCl.
31.00	33.00	Graphitic Argillite C0, S1, P4, P0, tr py, tr Lm Argillit is interbedded with softer shale. Silicified with quartz stock work , and quartz flooding into fracture or interstitial spaces. There are traces of limonite on surfaces, or on outer edges of quartz stock work . Very fine grained disseminated py , or bleb py is fresh, or tarnished .
33.00	72.00	Altered Quartz Monzonite C1, S1-S0, P3-P2, P0, 5% py, tr Sb Medium grey Altered Quartz Monzonite with rare remaining micas, and traces of limonite only at upper contact. Feldspar are mostly moderately argillically altered to white clay. Most mineralized between 40-50. Darker grey (metallic looking) chips interbedded at 40-42. These chips are siliceous, and mineralized with very fine grained pyrite. Pyrite on outer surface is fresh ; difficult to determine extent of oxidation of py within grey quartz . Stibnite chips 44-48. 42-44 traces of bright green mineral (fuchsite ?). Up to 5% coarse grained disseminated cube pyrite is mostly fresh throughout. Fine grained disseminated is strongly , or moderately oxidized to manganese oxide to 56m ; below here all pyrite, fine grained or coarse grained , is mostly fresh. 58-60 pyrite veinlets fresh as well.

*** END OF HOLE *** 72.00

HOLE NO: RC97-1982	SECTION:22919.1	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	76.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	29/12/97		
Date finished:	29/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	ROB BREMNER		

*** COLLAR COORDINATES AND RL ***

NOMINAL	19754.30mN	22919.10mE	825.70RL
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Pre-collar depth: Final depth: 76.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: 31.5
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	6.00	COLLUVIUM
6.00	28.00	LIMONITIC ALTERED QUARTZ MONZONITE
28.00	44.00	GRAPHITIC ARGILLITE
44.00	58.00	LIMONITIC ALTERED QUARTZ MONZONITE
58.00	69.00	ALTERED QUARTZ MONZONITE
69.00	70.00	SILTSTONE (EARN GROUP)
70.00	76.00	ALTERED QUARTZ MONZONITE
76.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	6.00	Colluvium
6.00	28.00	<p>Limonitic Altered Quartz Monzonite C2, S2-S3, P4-P2, tr Py, tr -1% Lm Light orange to medium/dark orange Limonitic Altered Quartz Monzonite. Limonite is pervasive; stronger on fracture surfaces. From 6-18m there is light and dark pervasive chips. From 18-28m more light than dark. Biotite are dominantly weakly altered to strongly altered, towards the base of the interval, to white mica. Feldspars are trace and strongly altered to clay; perhaps feldspars are weathered out because pitting occurs throughout. Pyrite is completely oxidized to fine-grained, small blebs of MgO₂; and also specks oxidized to FeO₂ from 12-20m. Moderately calcareous. Qtz flooding occurs and is stronger 14-16m and 24-26m. Light grey Altered Quartz Monzonite. No limonite on Altered Quartz Monzonite. Moderately to strongly calcareous. Biotite are weakly to moderately altered to white mica throughout interval. Feldspars trace and strongly to intensely altered to clay; Altered Quartz Monzonite also pitted so feldspars maybe weathered out. Pyrite is dominantly fine-grained blebs which are tarnished, there disseminated fine-grained blebs which are moderately oxidized to MgO₂. There is strong Qtz flooding within the Altered Quartz Monzonite. Some Qtz chips occur throughout interval.</p>
28.00	44.00	<p>Graphitic Argillite Co-C1, S1, P4-P2, tr Py, tr Lm Grey to black Graphitic Argillite. Limonite occurs on fracture surfaces and as staining on Qtz and also some "infill" coatings on some chips. Non-calcareous. Qtz veinlets and Qtz chips occur. Pyrite is oxidized; fine-grained blebs of MgO₂ (seen on limonite). From 38-44m there is pyrite which is medium grained and slightly tarnished. There are also some fine-grained fresh to slightly tarnished disseminated and blebs; there is also some oxidized pyrite to MgO₂ (seen on limonite). 25% medium grey Siltstone (Earn Group). Very trace limonite on a few fracture surfaces. Slightly calcareous. Fairly soft. Pyrite is not seen from 28-38m unless very tiny specks oxidized to MgO₂. From 38-44m there is fine-grained disseminated pyrite with fine-medium grained pyrite blebs on some fracture surfaces.</p>
44.00	58.00	<p>Limonitic Altered Quartz Monzonite C2, S2, P4-P3, tr Py, tr Lm Same as 6-28m, except Limonitic Altered Quartz Monzonite has less limonite and less Qtz flooding in the Altered Quartz Monzonite.</p>
58.00	69.00	<p>Altered Quartz Monzonite C1, S3, P4-P2, tr -1% Py, very tr Lm Light grey to whitish grey Altered Quartz Monzonite. No limonite on fracture surfaces; only occurs as oxidized pyrite specks to FeO₂. Biotite is strongly to completely altered to white mica. Feldspars are rare; when feldspars are seen they are also silicified. Pyrite is fine-grained blebs and larger specks oxidized to MgO₂. There are medium-grained pyrite that is slightly tarnished from 66-69m. Very few specks in all intervals oxidized to FeO₂; stained around area also. Very slightly calcareous. Qtz flooding is present; there are Qtz eyes from 62-64m. Note: there are some feldspar chips 58-60m, fairly hard and slightly altered to clay.</p>
69.00	70.00	<p>Siltstone (Earn Group) C1, S2, P4-P1, 2% Py Dark grey-black Siltstone (Earn Group). Weakly calcareous. No limonite. Qtz flooding and some Qtz eyes. Pyrite is fine-grained to medium-grained, disseminated and blebs oxidized completely or strongly to MgO₂. There is also medium-grained pyrite that is slightly tarnished.</p>
70.00	76.00	<p>Altered Quartz Monzonite C1, S3, P4-P2, 1% Py, very tr Lm Same as 58-69m. More MgO₂ from 74-76m.</p>

*** END OF HOLE *** 76.00

HOLE NO: RC97-1983 SECTION: 22920.3 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 70.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	30/12/97
Date finished:	30/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	ROB BREMNER

*** COLLAR COORDINATES AND RL ***

NOMINAL	19732.90mN	22920.30mE	824.30RL
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Pre-collar depth: Final depth: 70.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	33.50	ALTERED QUARTZ MONZONITE
33.50	56.50	SILTSTONE (STEEL FORMATION)
56.50	61.00	LIMONITIC ALTERED QUARTZ MONZONITE
61.00	70.00	ALTERED QUARTZ MONZONITE
70.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	Colluvium
4.00	33.50	<p>Altered Quartz Monzonite C1-C2, S1-S3, P4-P2, tr Py, tr -1% Lm Light grey to greenish grey Altered Quartz Monzonite. No limonite except as oxidized pyrite FeO₂ specks on some chips throughout interval. Biotite is dominantly weakly altered (around rims) to white mica. There is a few chips in every interval that has a few biotite that are moderately altered to white mica. Feldspars are rare; when few are seen they are silicified. Pyrite is fine specks oxidized to FeO₂; and also small blebs of fine-grained pyrite which is moderately tarnished. From 12-16m there is slightly more P2 pyrite blebs. Moderately to strongly calcareous. Qtz flooding is seen throughout interval making Altered Quartz Monzonite quite siliceous in all intervals. From 26-28m there is only about 10% Altered Quartz Monzonite and 90% LAQM; some as 4-6m there is about 20% Altered Quartz Monzonite. 40% medium/dark orange to whitish/tan Limonitic Altered Quartz Monzonite. Pervasive limonite occurs in most chips; from 26-28m there is dominantly white/tan chips which are not pervasive just a slight tinge of tannish colour. The medium/dark and medium orange chips have stronger limonite on fracture surfaces and some chips have "infill" limonite on some chips in every interval.</p> <p>Biotite are dominantly intensely to completely altered to white mica, there is chips in every interval that the biotite is weakly altered to white mica (Altered Quartz Monzonite-like but pervasively stained by limonite). Feldspar are moderately altered to clay in sme chips but most chips feldspar is rare. Pyrite is fine-grained and blebs of MgO₂ especially on fracture surfaces. In every interval there are also a few chips with fine-grained small blebs of pyrite which is oxidized to FeO₂. Limonitic Altered Quartz Monzonite is weakly to moderately calcareous. Slight amount of Qtz flooding occurs on all chips except from 26-28m where there are chips (tan/white) which are highly siliceous; few chips in 28-30m also. Note: stronger limonite 4-10m and 26-32m on medium/dark and medium coloured Limonitic Altered Quartz Monzonite chips.</p>
33.50	56.50	<p>Siltstone (Steel Formation) C0, S1, P4-P2, tr Py, tr Lm Light grey to dark grey/black Siltstone (Steel Formation). Limonite occurs on fracture surfaces from yellow/orange to dark reddish/orange; limonite also stains Qtz veining in all interval that contain Qtz. Fairly soft; some quite soft may be shale. From 46-56.5m the Siltstone (Steel Formation) is graphitic from Graphitic Argillite. Pyrite is fine-grained blebs of MgO₂ (trace) seen on fracture surfaces; there is also fine-grained blebs and speck of FeO₂ from 40-46m. Pyrite also seen 36-38m, 44-46m and 54-56m as tarnished fine to medium-grained blebs. 30% dark/grey/black to black Graphitic Argillite. Limonite occurs on Qtz veining and a few fracture surfaces from 33.5-44m. Graphitic Argillite more graphitic from 46m to end of interval where graphite is strong. From 33.5-40m there is more Qtz veining. There are also Qtz chips seen. Pyrite is absent or completely oxidized to MgO₂ - can't tell. Both Siltstone (Steel Formation) and Graphitic Argillite are non-calcareous.</p>
56.50	61.00	<p>Limonitic Altered Quartz Monzonite C1, S2, P4-P2, 1% Py, tr -1% Lm Medium orange to light orange Limonitic Altered Quartz Monzonite. Pervasive limonite in interval; from 56.5-60m medium orange from 60-61m light orange chips. From 56.5-60m there is stronger limonite on some fracture surfaces. Biotite are completely altered to white mica and are weathered out or silicified to a "ghost" white. Note: from 56.5-60m the white "ghost" have limonite "coatings" over where the biotite was. Feldspars are trace and moderately altered to clay. Pyrite is seen as fine-grained blebs of MgO₂ on some fracture surfaces; also as fine-grained stringers and veinlets oxidized to MgO₂. On the veinlets the MgO₂ is only at the portion or the veinlet that is the contact of the Limonitic Altered Quartz Monzonite. Pyrite also occurs on Qtz veinlets as fine-medium grained blebs of tarnished pyrite. There are also some blebs and specks of pyrite oxidized to FeO₂ from 56.5-60m. There is Qtz flooding, Qtz veinlets and 58-60m have Qtz eyes on a few chips. Very weakly calcareous (could only hear it).</p>
61.00	70.00	<p>Altered Quartz Monzonite C0, S3, P3, 2-3% Py, Nil - tr Lm Greenish white to tannish white Altered Quartz Monzonite. Only a slight tannish colour from 68-70m which is a slight limonite staining pervasively and from 66-68m there is a few chips with a slight staining pervasively. Biotite are completely altered to white mica and are silicified to white "ghosts". Feldspar are rare except for a few chips seen 61-64m which are weakly to very weakly</p>

From	To	Geological Log
		altered to clay. (Perhaps primary feldspar are weathered out and secondary feldspar/Qtz veining 61-64m). Pyrite is very fine-grained small blebs and specks which are disseminated and strongly oxidized to Mangonese oxide. From 66-70m there are 2 chips in each interval that have one speck of FeO ₂ which was a speck of pyrite. Interval is highly flooded by Qtz. Non-calcareous.

*** END OF HOLE *** 70.00

HOLE NO: RC97-1984	SECTION: 22925	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	60.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	30/12/97		
Date finished:	30/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	CLAY TRAVIS		

*** COLLAR COORDINATES AND RL ***

NOMINAL	19702.30mN	22925.00mE	821.70RL
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Pre-collar depth: Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation 56
 Top of fresh rock: >EOH
 Water first encountered: 50
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	30.00	LIMONITIC ALTERED QUARTZ MONZONITE
30.00	36.00	ALTERED QUARTZ MONZONITE
36.00	55.50	LIMONITIC ALTERED QUARTZ MONZONITE
55.50	60.00	GRAPHITIC ARGILLITE
60.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Colluvium Limonitic Altered Quartz Monzonite 90% and some Altered Quartz Monzonite, Graphitic Argillite & Siltstone (Steel Formation)
2.00	30.00	Limonitic Altered Quartz Monzonite C1, S1-S3, P4, 1% Lm Brown/orange to light medium orange Limonitic Altered Quartz Monzonite. From 2-8m the colour is medium orange; from 8-24m is a mix of medium orange to light/medium orange and from 24-31m the chips are brown/orange to light/medium orange. The darker coloured chips have stronger limonite on some fracture surfaces. Biotite are completely altered to white mica; in the lighter colour chips the biotite are altered to white mica but are white or "ghosts" instead of silvery or pearlized. Feldspars are moderately to strongly altered to clay. From 8-16m and 18-22m and 26-30m there are chips of feldspars which are moderately altered to clay. Some are slightly stained by limonite. Pyrite is dominantly fine-grained blebs oxidized to MgO ₂ . Very strong MgO ₂ from 2-6m; most of MgO ₂ in all intervals is a fracture surfaces. From 24-26m there is a few chips with fine-grained pyrite blebs which are moderately to strongly tarnished. The darker chips are slightly Qtz flooded but the lighter chips are quite silicified. Very weakly calcareous (hear fizz) throughout interval.
30.00	36.00	Altered Quartz Monzonite C2, S1-S3, P4-P2, tr Py, tr -1% Lm Light greenish/grey Altered Quartz Monzonite. Limonite occurs as a few specks from the oxidation of pyrite and some staining on a few chips 1/2 Limonitic Altered Quartz Monzonite, 1/2 Altered Quartz Monzonite. Biotite are weakly altered to white mica (around rims). Feldspars are rare but some are strongly altered to clay and some are silicified hard or not altered at all. Pyrite is rare and is fine-grained blebs oxidized to MgO ₂ ; there are a few chips with fine-grained pyrite which is oxidized to FeO ₂ from 30-34m and from 34-36m there is a few chips with fine-grained blebs of strongly tarnished pyrite. Strongly calcareous. Strong Qtz flooding and Qtz chips are seen. 45% Limonitic Altered Quartz Monzonite is same as 2-30m with colours medium orange from 30-34m and light/medium orange 34-36m; and Limonitic Altered Quartz Monzonite is moderately calcareous to weakly calcareous but can see fizzing.
36.00	55.50	Limonitic Altered Quartz Monzonite C1, S2-S3, P4, tr -1% Lm Light to medium orange Limonitic Altered Quartz Monzonite. Limonite pervasive with some fracture surfaces of medium orange chips containing stronger limonite. From 36-42m the limonite is a bit stronger and darker. Same with 50-54m. Biotite from 38-41m is weakly altered to white mica (same as Altered Quartz Monzonite but pervasive limonite). The rest of the intervals has biotite that is completely altered to white mica; lighter coloured chips and some darker have biotite which is altered to white mica but are white or "ghosts". Feldspar is rare after 44m and from 36-44m the feldspars are moderately altered to clay. Pyrite is completely oxidized to MgO ₂ and is fine-grained blebs dominantly on fracture surfaces. From 44m the MgO ₂ is more disseminated than blebby. From 50-52m there is a few chips with medium grained cubic pyrite which is oxidized to FeO ₂ almost entirely. There is Qtz flooding in all intervals but is slightly stronger 44-50m, Weakly calcareous throughout but slightly less calcareous on darker coloured chips.
55.50	60.00	Graphitic Argillite C0, S0-S1, P2, tr Py, tr Lm Dark grey/black to black Graphitic Argillite. Non-calcareous. Slightly graphitic. Very trace limonite on a few fracture surfaces and as staining on Qtz veinlets. Pyrite is absent or very trace and oxidized to MgO ₂ (none seen). Trace Qtz veining seen throughout interval. 25% dark grey Siltstone (Steel Formation). Non-calcareous. Trace limonite on a few fracture surfaces. No Qtz seen in Siltstone (Steel Formation). Pyrite occurs as moderately tarnished small fine-grained blebs on fracture surfaces.

*** END OF HOLE *** 60.00

HOLE NO: RC97-1985	SECTION:22925	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 60.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	31/12/97
Date finished:	31/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	CLAY TRAVIS

*** COLLAR COORDINATES AND RL ***

NOMINAL	19702.30mN	22925.00mE	821.70RL
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Pre-collar depth: Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation 56
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	90.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	4.00	COLLUVIUM
4.00	21.00	LIMONITIC ALTERED QUARTZ MONZONITE
21.00	40.50	GRAPHITIC ARGILLITE
40.50	47.50	LIMONITIC ALTERED QUARTZ MONZONITE
47.50	60.00	GRAPHITIC ARGILLITE
60.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Colluvium
2.00	4.00	Colluvium Limonitic Altered Quartz Monzonite 75% with Graphitic Argillite & Siltstone (Steel Formation) & Siltstone (Earn Group)
4.00	21.00	Limonitic Altered Quartz Monzonite C1, S1-S2, P4, 1-3% Lm Dark reddish/brown to medium/light orange Limonitic Altered Quartz Monzonite. Limonite pervasive throughout interval except some chips from 12-20m which are light orange that are more stained or tinted rather than pervasive limonite. Limonite is also stronger on fracture surfaces. From 2-10m the chips are reddish/brown; for 10-21m there are chips that are reddish brown to light orange. Biotite are completely altered to white mica; most white mica are weathered out leaving the Limonitic Altered Quartz Monzonite pitted. Feldspar are weakly to moderately altered to clay and from 12-20m there are chips of feldspar. Pyrite is fine-grained blebs oxidized to MgO ₂ dominantly on fracture surfaces. From 2-12m there is abundant MgO ₂ . From 2-10m there is also abundant fine-grained pyrite blebs which are also oxidized to FeO ₂ "copper coloured". Weakly calcareous. Qtz flooding occurs in all intervals with the chips with lighter colours being slightly more siliceous.
21.00	40.50	Graphitic Argillite Co, S1, P4, tr Lm Dark black/grey to black Graphitic Argillite. Non-calcareous. Slightly graphitic throughout interval - almost Graphitic Argillite. Limonite occurs on fracture surfaces and is slightly stronger from 21-34m. Pyrite is fine-grained blebs oxidized to MgO ₂ as seen on limonite fractures to 34m; from 34-40.5 pyrite absent or completely oxidized to MgO ₂ . Qtz veinlets seen in all interval but slightly more from 21-34m. 40% light tan to dark grey Siltstone (Steel Formation). Light tan colour has pervasive limonite (almost looks like tan weathering of Siltstone (Earn Group) but non-calcareous). There is also limonite on fracture surfaces; stronger from 21-36m. Pyrite is oxidized to MgO ₂ , fine-grained and is small blebs or larger specks. From 21-34m there is also fine-grained blebs on fracture surfaces oxidized to FeO ₂ . Little Qtz veinlets seen with a bit of Qtz flooding on some chips 21-30m.
40.50	47.50	Limonitic Altered Quartz Monzonite C1, S1-S3, P4-P2, tr -1% Lm, tr Py Light orange to dark orange Limonitic Altered Quartz Monzonite. Limonite is pervasive and from 40.5-42m there is darker and stronger limonite on fracture surfaces. Biotite are completely altered to white mica and are mostly weathered out; Limonitic Altered Quartz Monzonite is pitted. Feldspar are not seen so must be altered to clay and weathered out. Pyrite is fine-grained small blebs and specks oxidized to MgO ₂ . From 44-46m there is a few chips that have fine-grained blebs of pyrite which is moderately tarnished. Very slightly calcareous. Qtz flooding occurs, but is stronger from 42-46m in most chips - lighter coloured. From 40.5-42m there is one chip with a blood-red bleb on a fracture surfaces.
47.50	60.00	Graphitic Argillite Co, S1, P4-P1, tr Py, tr Lm Dark grey/black to black Graphitic Argillite. Non-calcareous. Moderately graphitic and strongly graphitic 56-60m. Limonite on fracture surfaces and slightly more surfaces affected from 47.5-56m. Pyrite seen on limonite surfaces as fine-grained blebs oxidized to MgO ₂ - trace amounts. From 56-60m fine-grained pyrite blebs not seen; absent or oxidized to MgO ₂ and medium-grained cubic pyrite seen 58-60 on a few chips which is slightly tarnished. Qtz veinlets seen from 47.5-54m. No to very trace amount of Qtz seen 54-60m. 20% light to dark grey Siltstone (Steel Formation). Non-calcareous. Trace amounts of limonite on a few fracture surfaces from 47.5-56m. Pyrite not seen except from 52-54m there is a fine-grained stringer of slightly to moderately tarnished pyrite in a few chips. No Qtz seen. From 47.5-52m has light grey chips. Note: a few chips of Limonitic Altered Quartz Monzonite from 58-60m.

*** END OF HOLE *** 60.00

HOLE NO: RC97-1986	SECTION:22950	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE : MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

*** COLLAR COORDINATES AND RL ***

SURVEYED	19775.90mN	22951.60mE	809.80RL
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Pre-collar depth: 60 Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: HIT WATER FROM CREEK 35M CASING

RC CONVENTIONAL	0.00	35.00	5.25	
Drill contractor:		MIDNIGHT SUN		
Drill rig:		SCHRAMM		
Date started:		25/9/97		
Date finished:		16/9/97		
Logged by:		J HANSON		
Relogged by:				
Sampled by:		CLAY & ROB		
RC CENTER SAMPLING	35.00	60.00	5.25	
Drill contractor:		MIDNIGHT SUN		
Drill rig:		SCHRAMM		
Date started:		25/9/97		
Date finished:		26/9/97		
Logged by:		J HANSON		
Relogged by:				
Sampled by:		CLAY & ROB		

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	270.00	-55.00

Material left in hole: NONE
 Base of complete oxidation 28
 Top of fresh rock: >EOH
 Water first encountered: 6M
 Water inflow estimate: NA

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	7.50	LIMONITIC ALTERED QUARTZ MONZONITE
7.50	27.00	GRAPHITIC ARGILLITE
27.00	40.00	LIMONITIC ALTERED QUARTZ MONZONITE
40.00	58.00	ALTERED QUARTZ MONZONITE
58.00	59.00	GRAPHITIC ARGILLITE
59.00	60.00	ALTERED QUARTZ MONZONITE
60.00		END OF HOLE

*** SIGNIFICANT ASSAYS ***

From	To	Width

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	Colluvium Overburden
4.00	7.50	Limonic Altered Quartz Monzonite C1, S0, P4, 6% Lm Medium to dark orange / brown Limonic Altered Quartz Monzonite has pervasive limonite alteration. Few remaining micas are often coated with limonite. Moderate to strong argillic alteration of feldspar; larger crystals stand out as soft white clay phenocrysts. Trace manganese oxide on fracture surface from intensely oxidized py. Chips are weakly calcareous.
7.50	27.00	Graphitic Argillite C0, S0, P4, P3, tr py, 1% Lm Graphitic Argillite has limonite on many fracture surface, and few fracture surface are covered with very fine grained py coated with limonite. Limonic Altered Quartz Monzonite beds between 14-20 not mentioned in drill log; true thickness??
27.00	40.00	Limonic Altered Quartz Monzonite 70:30 Altered Quartz Monzonite C1, S0-S1, P3-P2, tr py, 4% Lm Light to medium orange / brown limonic altered quartz monzonite has moderate limonite alteration. Biotite has altered to white micas which are mostly coated with limonite. Weakly silicified with rare grey quartz eyes and grey quartz veins 30-34. Light grey altered quartz monzonite has few remaining remnants of micas, and feldspar are moderately to strongly argillically altered to white clay. On both rock units 1-2% former fine grained pyrite has been strongly or moderately oxidized to manganese oxide. Delayed and weak reaction to HCl; gets weaker with depth.
40.00	58.00	Altered Quartz Monzonite C0, S0-S1, P3-P2, 1% py, tr Lm Light grey altered quartz monzonite has limonite on fracture surface at upper contact, and very weak limonite alteration on 10% chips below 48m. There are few remaining micas, and most feldspar are weakly to moderately clay altered. Fine grained disseminated py is mostly strongly oxidized, or may also occur moderately oxidized to manganese oxide. 1% coarse grained cube py is fresh or tarnished. Unit is very weakly silicified with few light grey quartz chips from quartz veins, and rare clear quartz eyes. Weak and barely audible reaction to HCl.
58.00	59.00	Graphitic Argillite C0, S0, P0, 2% py Black graphitic argillite is somewhat soft, and has up to 2% coarse grained disseminated fresh pyrite.
59.00	60.00	Altered Quartz Monzonite C1, S1, P3-P2, tr py same as above unit altered quartz monzonite; tan color, and fine grained py is strongly or moderately oxidized to manganese oxide. Rare clear quartz eyes.

*** END OF HOLE *** 60.00

HOLE NO: RC97-1987	SECTION:22990	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19775.00mN 22991.80mE 810.20RL

Pre-collar depth: 64 Final depth: 64.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: WATER AT 5M , 12M CASING ;
 MINOR SLOUGHING FROM ALL
 THE WATER.

RC CONVENTIONAL	0.00	12.00	5.25	
Drill contractor:	MIDNIGHT SUN			
Drill rig:	SCHRAMM			
Date started:	26/9/97			
Date finished:	27/9/97			
Logged by:	J HANSON			
Relogged by:				
Sampled by:	ROB			
RC CENTER SAMPLING	12.00	64.00	5.25	
Drill contractor:	MIDNIGHT SUN			
Drill rig:	SCHRAMM			
Date started:	16/9/97			
Date finished:	26/9/97			
Logged by:	J HANSON			
Relogged by:				
Sampled by:	ROB			

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	270.00	-55.00

Material left in hole: 20 FT CASING AND SHOE LOST
 Base of complete oxidation 30
 Top of fresh rock: 60
 Water first encountered: 5M
 Water inflow estimate: NA

*** SUMMARY LOG ***

0.00	9.00	COLLUVIUM
9.00	10.00	CHERT
10.00	13.00	QUARTZ MONZONITE
13.00	27.50	LIMONITIC ALTERED QUARTZ MONZONITE
27.50	30.00	GRAPHITIC ARGILLITE
30.00	45.00	LIMONITIC ALTERED QUARTZ MONZONITE
45.00	52.00	ALTERED QUARTZ MONZONITE
52.00	60.00	ALTERED QUARTZ MONZONITE
60.00	64.00	INTERMEDIATE LITHIC TUFF
64.00		END OF HOLE

*** SIGNIFICANT ASSAYS ***

From	To	Width

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	9.00	Colluvium Overburden black chert, and grey and tan weathered Siltstone (Steel Formation)
9.00	10.00	Chert C0, S0, P4, tr Lm Black chert , with traces of limonite, is interbedded with tan colored and grey Siltstone (Steel Formation) ; same as above units of overburden. Vegetation in 8-10 ; still overburden ?
10.00	13.00	Quartz Monzonite 80:20 Limonitic Quartz Monozite C1, S1, P0, 1% py, tr Lm Medium grey Quartz Monzonite has mostly fresh black biotite ; few are altered to white mica around outer edges. Feldspar are very weakly clay altered, or unaltered. Very weakly silicified with quartz flooding. Fine grained fresh pyrite. Limonitic Quartz Monozite has very weak limonite alteration, and mostly weakly altered black biotite . Traces of fresh very fine grained pyrite in one biotite pseudomorphs . Both rock units are weakly calcareous .
13.00	27.50	Limonitic Altered Quartz Monzonite C1, S1-S0, P4, 6% Lm Medium to dark orange / brown Limonitic Altered Quartz Monzonite . Limonite alteration is poor at upper contact and becomes more intense with depth ; strongest 17-24, and then poor again 24-27. Few remaining micas are often coated with patchy limonite , occasional black biotite . Feldspar are mostly moderately to strongly clay altered. Weak silicification from grey quartz eyes 17-24, and rare translucent limonite stained quartz chips below 24m. Abundant manganese oxide from intensely oxidized pyrite, and iron oxide from intensely oxidized coarse grained cube pyrite. Immediate, weak reaction to HCl.
27.50	30.00	Graphitic Argillite C0, S1, P4, tr Lm Argillite is very graphitic. Trace white quartz stock work , and traces of limonite on few surfaces. Interbedded with limonitic altered quartz monzonite 28-30.
30.00	45.00	Limonitic Altered Quartz Monzonite 70:30 Altered Quartz Monzonite C1, S1, P3, P2, tr py, 5% Lm Medium to dark orange / brown limonitic altered quartz monzonite has pervasive limonite alteration. Biotite has altered to micas which are coated with patchy limonite , and most feldspar are moderately to strongly clay altered. Very light grey, or tan colored altered quartz monzonite has limonite on some fracture surface . Rare clear quartz eyes, or light grey quartz chips. Trace very fine grained py has been strongly or moderately oxidized to manganese oxide on both rock units. Chips are weakly calcareous, and becomes less calcareous with depth.
45.00	52.00	Altered Quartz Monzonite 70:30 Limonitic Altered Quartz Monzonite C1, S1, P4, 4% Lm This unit has probable sloughing ?? dark grey altered quartz monzonite with white micas, few light grey altered quartz monzonite , limonitic altered quartz monzonite with pervasive limonite alteration and manganese oxide from intensely oxidized pyrite , and few chips graphitic argillite.
52.00	60.00	Altered Quartz Monzonite 90:10 Limonitic Altered Quartz Monzonite C1, S0, P2, 2% py, 1% Lm mixture of tan and light grey altered quartz monzonite has biotite altered to buff colored micas, and feldspar moderately clay altered. Disseminated fine grained pyrite is moderately oxidized to manganese oxide. Coarse grained py is fresh. 10% Limonitic Altered Quartz Monzonite is medium orange / brown ,occasionally brown. Fine grained py is intensely oxidized at upper contact, as well as moderately oxidized below 54m. Very weak and delayed reaction to HCl.
60.00	64.00	Intermediate Lithic Tuff 70:30 Altered Quartz Monzonite C1, S1, P0, 3% py, 1% Lm M-tuff has a dark grey matrix with angular and sub angular black argillite, and white quartz fragments. Rare white quartz veinlets. Mtuff has 3% fine grained and coarse grained fresh pyrite in matrix that is disseminated , or in blebs. It is interbedded with light grey siliceous altered quartz monzonite ;most chips are weakly quartz flooded. Feldspar are strongly clay altered on chips not silicified. Fine grained py is mostly moderately oxidized to manganese oxide, and coarse grained pyrite is fresh. At least 10% chips are limonitic altered quartz monzonite with intensely oxidized py (sloughing ??).

*** END OF HOLE *** 64.00

HOLE NO: RC97-1988 SECTION:23010 GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 60.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	27/9/97
Date finished:	27/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	CLAY & ROB

*** COLLAR COORDINATES AND RL ***

SURVEYED 19724.25mN 23009.80mE 807.09RL

Pre-collar depth: 60 Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: PERMAFOST 6-9, WET TO EOH,
 INJECTED WATER AT 9.5; HOLE
 "STICKY"

Material left in hole: NONE
 Base of complete oxidation 52
 Top of fresh rock: 52
 Water first encountered: 9.5
 Water inflow estimate: NA

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00 1.00 COLLUVIUM
 1.00 12.00 LIMONITIC ALTERED
 QUARTZ MONZONITE
 12.00 13.00 LIMONITIC QUARTZ
 MONOZITE
 13.00 20.00 LIMONITIC ALTERED
 QUARTZ MONZONITE
 20.00 21.50 ALTERED QUARTZ
 MONZONITE
 21.50 31.50 LIMONITIC ALTERED
 QUARTZ MONZONITE
 31.50 38.00 GRAPHITIC ARGILLITE
 38.00 50.00 GRAPHITIC ARGILLITE
 50.00 51.00 LIMONITIC ALTERED
 QUARTZ MONZONITE
 51.00 60.00 GRAPHITIC SHALE
 60.00 END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	1.00	Colluvium Overburden
1.00	12.00	Limonitic Altered Quartz Monzonite C1, S1, P4, P3, tr py, 6% Lm dull brown limonitic altered quartz monzonite has pervasive limonite alteration. Biotite is altered to white micas which are mostly coated with patchy limonite . Feldspar are unaltered ; below 6m occasional feldspar phenocrysts are moderately clay altered. Abundant manganese oxide from disseminated fine grained , and coarse grained cubic pyrite that is mostly intensely oxidized , or may also be strongly oxidized. Weakly silicified from rare quartz eyes. Weakly to moderately calcareous over chip surfaces ; calcite veinlets 2-4m.
12.00	13.00	Limonitic Quartz Monozite C1, S1, P4, 3% Lm True thickness ?? Not noted in quick log. Greenish brown Limonitic Quartz Monozite with poor limonite alteration. Biotite is mostly moderately , to strongly altered to white micas. Abundant manganese oxide from intensely oxidized pyrite on fracture surface , and fine grained disseminated pyrite. Clear quartz eyes. Immediate, weak reaction to HCl.
13.00	20.00	Limonitic Altered Quartz Monzonite C1, S1, P4, 6% Lm Limonitic Altered Quartz Monzonite is a medium orange / brown color with pervasive limonite alteration ; occasionally with more intense orange on fracture surface . Feldspar are mostly unaltered but occasionally are strongly clay altered. Clear quartz eyes. Abundant manganese oxide from intensely oxidized fine grained py , and py coating fracture surface . Immediate, weak reaction to HCl over chip surfaces.
20.00	21.50	Altered Quartz Monzonite C1, S0, P3-P2, tr py, tr Lm Light grey altered quartz monzonite with limonite on a few fracture surface . Biotite altered to white micas, or remnants of micas, and feldspar are unaltered . Trace fine grained disseminated py is mostly strongly, or or occasionally moderately oxidized to manganese oxide. Weakly calcareous .
21.50	31.50	Limonitic Altered Quartz Monzonite C1, S1-S0, P4, 5% Lm Medium brown Limonitic Altered Quartz Monzonite has pervasive limonite lateration to a depth of 26m ; weak alteration below that. Biotite has altered to white micas that are often coated with patchy limonite . Feldspar are mostly unaltered, occasionally strongly clay altered. Fine grained disseminated pyrite is intensely oxidized to manganese oxide, and coarse grained cube py is intensely oxidized , or strongly oxidized to iron oxide. Weakly calcareous at upper contact ; less so with depth.
31.50	38.00	Graphitic Argillite 60:40 Limonitic Altered Quartz Monzonite C0, S1, P4, 2% Lm Argillite has bright orange limonite on some fracture surface . It is interbedded with a soft medium grey or brownish shale, and also interbedded with units of light brown limonitic altered quartz monzonite with weak limonite alteration. Limonitic altered quartz monzonite has intensely oxidized fine grained pyrite. 34-36 one chip limonitic altered quartz monzonite with light grey quartz vein.
38.00	50.00	Graphitic Argillite 50:50 Shale C0, S1, P4, tr Lm Graphitic argillite has bright orange limonite on some fracture surface , and is interbedded with soft grey, or brownish shale. Very weakly silicified with white quartz chips .
50.00	51.00	Limonitic Altered Quartz Monzonite C1, S0, P4, 6% Lm Medium orange / brown Limonitic Altered Quartz Monzonite has moderate limonite alteration, no micas, and feldspar are mostly unaltered , or occasionally moderately clay altered. Fine grained py is all intensely oxidized to manganese oxide. Very weak reaction to HCl.
51.00	60.00	Graphitic Shale C0, S1, tr Lm Dark grey shale is somewhat soft. Rare white quartz stock work has limonite on outer edges ; other than that rock is fresh.

*** END OF HOLE *** 60.00

HOLE NO: RC97-1989 SECTION: 22990 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 54.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	27/9/97
Date finished:	27/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19700.63mN 22991.09mE 803.89RL

Pre-collar depth: 54 Final depth: 54.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 24
 Top of fresh rock: 50
 Water first encountered: 2
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	270.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	3.00	COLLUVIUM
3.00	20.00	LIMONITIC ALTERED QUARTZ MONZONITE
20.00	24.00	GRAPHITIC ARGILLITE
24.00	42.00	GRAPHITIC SHALE
42.00	46.00	GRAPHITIC ARGILLITE
46.00	47.00	ALTERED QUARTZ MONZONITE
47.00	54.00	GRAPHITIC ARGILLITE
54.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	3.00	Colluvium Overburden
3.00	20.00	Limonitic Altered Quartz Monzonite C2, S0, P4, 6% Lm Medium orange / brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration 2-8. Limonite alteration decreases somewhat below 8m and igneous texture is more apparent. There are white micas, often coated with patchy limonite . Feldspar are moderately to strongly clay altered. All fine grained py, and py on fracture surface , has been intensely oxidized to manganese oxide. Rare quartz eyes. Unit has an immediate and moderate reaction to HCl.
20.00	24.00	Graphitic Argillite 70:30 Limonitic Altered Quartz Monzonite C0, S1, P4, tr Lm Argillite, with limonite on many fracture surface, is moderately graphitic, and interbedded with minor units soft shale that has intensely oxidized fine grained disseminated py . Limonite is also between laminations. Weak white quartz stock work . Narrow unit Limonitic Altered Quartz Monzonite 22-24, (not noted in quick log), with intensely oxidized py .
24.00	42.00	Graphitic Shale 70:30 Graphitic Argillite C0, S0, P4, P2-P1, tr py, tr Lm Soft graphitic medium grey shale is interbedded with Graphitic Argillite . Limonite is on many fracture surface , and occasionally fracture surface on shale are covered with very fine grained py that is coated with limonite , or rarely tarnished .
42.00	46.00	Graphitic Argillite C0, S1, P0, tr py Graphitic argillite has trace white or yellowish quartz stock work , no limonite , and very fine grained disseminated fresh py in minor shale units.
46.00	47.00	Altered Quartz Monzonite C0, S0, P1-P0, tr py White Altered Quartz Monzonite has biotite altered to a buff colored mica, and feldspar are unaltered. Trace cube py is tarnished , or fresh.
47.00	54.00	Graphitic Argillite C0, S1, P0, tr py Argillite is graphitic, and somewhat soft. Chips harder where silicified with white quartz stock work . Trace fine grained py in veinlets , or on fracture surface is tarnished at upper contact, and fresh below that.

*** END OF HOLE *** 54.00

HOLE NO: RC97-1990	SECTION:23010	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	28/9/97
Date finished:	28/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB

*** COLLAR COORDINATES AND RL ***
 SURVEYED 29701.53mN 23008.52mE 803.67RL

Pre-collar depth: 52 Final depth: 52.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: WATER INJECTED AT 6.5

Material left in hole: NONE
 Base of complete oxidation 34
 Top of fresh rock: >EOH
 Water first encountered: NA
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:		
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	2.50	COLLUVIUM
2.50	18.00	LIMONITIC ALTERED QUARTZ MONZONITE
18.00	31.00	LIMONITIC ALTERED QUARTZ MONZONITE
31.00	33.50	GRAPHITIC ARGILLITE
33.50	40.00	LIMONITIC ALTERED QUARTZ MONZONITE
40.00	52.00	GRAPHITIC SHALE
52.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.50	Colluvium Fill
2.50	18.00	Limonitic Altered Quartz Monzonite C2, S0, P4, 6% Lm Limonitic Altered Quartz Monzonite is a rich orange, occasionally a reddish brown, with pervasive limonite alteration. Feldspar phenocrysts are moderately clay altered. Non silicified, except for weak quartz stock work 8-10. Unit has an immediate, moderate reaction, to HCl. All fine grained py, and py on fracture surface has been intensely oxidized to manganese oxide. Trace coarse grained py is tarnished. Minor unit white Altered Quartz Monzonite 14-16 has fine grained strongly oxidized py.
18.00	31.00	Limonitic Altered Quartz Monzonite C2, S0, P4, 3% Lm Dull brown Limonitic Altered Quartz Monzonite unit has much weaker limonite alteration than above unit. Biotite has altered to white micas, often coated with patchy limonite. Feldspar are mostly unaltered at upper contact but argillic alteration increases with depth. Abundant manganese oxide from intensely oxidized py. Unit is moderately calcareous.
31.00	33.50	Graphitic Argillite C0, S1, P4, P2, tr pytr Lm Argillite is graphitic, somewhat soft, and has limonite on few fracture surface. Rare fracture surface are covered with very fine grained py coated with limonite.
33.50	40.00	Limonitic Altered Quartz Monzonite C1, S1-S0, P3, tr py, 4% Lm Light orange / brown Limonitic Altered Quartz Monzonite has weak limonite alteration at upper contact; alteration more pervasive below 36m. Minor unit Quartz Monzonite 34-36, and weakly silicified here from white quartz chips, and rare quartz eyes in Limonitic Altered Quartz Monzonite. Rare manganese oxide from strongly oxidized py. Unit is weakly calcareous.
40.00	52.00	Graphitic Shale 80:20 Graphitic Argillite C0, S1, P2, 2% py, tr Lm Shale is medium grey, or occasionally brown. Interbedded with minor units Graphitic Argillite that has weak quartz stock work. Fracture surfaces throughout have limonite coating very fine grained py.

*** END OF HOLE *** 52.00

HOLE NO: RC97-1991

SECTION:23050

GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAPMLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	28/9/97
Date finished:	28/9/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	ROB

*** COLLAR COORDINATES AND RL ***

SURVEYED 19664.16mN 23049.59mE 787.83RL

Pre-collar depth: 50 Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: WATER INJECTED AT 2-6

Material left in hole: NONE
 Base of complete oxidation: 20
 Top of fresh rock: 30
 Water first encountered: NA
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	206.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00 2.50 COLLUVIUM
 2.50 20.00 LIMONITIC ALTERED
 QUARTZ MONZONITE
 20.00 40.00 GRAPHITIC ARGILLITE
 40.00 50.00 SILTSTONE (STEEL
 FORMATION)
 50.00 END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.50	Colluvium Overburden
2.50	20.00	Limonitic Altered Quartz Monzonite C2, S0-S1, P4, 5% Lm limonite alteration is weak 2-8, and there is minor units Quartz Monzonite with moderately altered biotite . Limonite alteration becomes more pervasive below 8m, and chips are a dull orange / brown . Few remaining micas, and feldspar are mostly unaltered (rare phenocrysts are strongly altered to a soft white clay.) Cube py has intensely oxidized to iron oxide 2-6, and all fine grained py has been intensely oxidized to manganese oxide. Weak silicification from translucent quartz stock work at 2-4, and 12-18. Unit has an immediate and moderate reaction to HCl.
20.00	40.00	Graphitic Argillite C1, S1, P4, tr Lm Argillite is weakly graphitic and most chips are quite hard with smooth sides and sharp edges. Weakly silicified with white and translucent quartz stock work . Limonite is on many fracture surface , and on quartz stock work , to a depth of 30m ; below that rock is fresh. Unit has a delayed and weak reaction to HCl.
40.00	50.00	Siltstone (Steel Formation) 50:50 Argillite C1, S1, P0, 1% py, tr Lm Blue grey Siltstone (Steel Formation) is mostly unweathered. It has wispy black laminations, yellowish quartz stock work , and very fine grained disseminated fresh py, as well as cube py. It is interbedded with Argillite that has been silicified with white quartz stock work , and quartz flooding, often stained orange from limonite . Argillite has coarse grained py , often in quartz stock work , that is fresh , or occasionally tarnished . Unit has a delayed and weak reaction to HCl.

*** END OF HOLE *** 50.00

HOLE NO: RC97-1992

SECTION:23050

GRID:MINE

PROJECT CODE : BREWERY CREEK

TENEMENT :
PROSPECT :

GRID : MINE

MAP REFERENCE: MINE

LOCATION : LUCKY

HOLE TYPE : RC

*** COLLAR COORDINATES AND RL ***

SURVEYED 19689.91mN 23053.94mE 792.26RL

Pre-collar depth: 50 Final depth: 50.00

Purpose of hole: EXPLORATION

Hole status: DRILLED TO DEPTH

Comments: HOLE MOVED BACK 4M ; TOO
SOFT. SLOUGHING AT 34M
;WATER

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	206.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	31.00	LIMONITIC ALTERED QUARTZ MONZONITE
31.00	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	50.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	29/9/97		
Date finished:	29/9/97		
Logged by:	J HANSON		
Relogged by:			
Sampled by:	CLAY		

Material left in hole: NONE

Base of complete oxidation 31

Top of fresh rock: 34

Water first encountered: NA

Water inflow estimate: NA

*** SIGNIFICANT ASSAYS ***

From	To	Width

Checked and signed: _____

Date: _____

From	To	Geological Log
0.00	2.00	Colluvium Overburden
2.00	31.00	<p>Limonitic Altered Quartz Monzonite C1, S0-S1, P4, P3, tr py, 6% Lm Medium orange / brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration. Intensity of color increases somewhat with depth. Few remaining micas except for a minor unit of Quartz Monzonite 0-2 . Feldspar are mostly unaltered however there is localized argillic alteration of feldspar phenocrysts to a soft white clay. Unit is weakly silicified with translucent quartz stock work , and has an immediate, weak reaction to HCl which decreases slightly in intensity with depth. Fine grained py , and py on fracture surface has been intensely or strongly oxidized to manganese oxide. Below 24m py is all intensely oxidized , and cube py is intensely oxidized to iron oxide. Minor unit Argillite 22-24.</p>
31.00	50.00	<p>Graphitic Argillite C1, S1, P4, 1% Lm Argillite is very weakly silicified with white and grey quartz stock work , and quartz flooding of fracture spaces. Most is at upper contact. Stock work is often yellowish and is weakly calcareous . Limonite occurs on fracture surface throughout. Drill tech reported a great deal of sloughing below 32m so it is difficult to determine depth of fresh rock. Limonitic Altered Quartz Monzonite at bottom of hole ; sloughing.</p>

*** END OF HOLE *** 50.00

HOLE NO: RC97-1993	SECTION:	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00 mN	0.00 mE	0.00 RL
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Pre-collar depth: Final depth: 140.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	OVERBURDEN
4.00	28.00	LIMONITIC BIOTITE MONZONITE
28.00	58.00	LIMONITIC ALTERED BIOTITE MONZONITE
58.00	72.00	LIMONITIC BIOTITE MONZONITE
72.00	75.00	LIMONITIC ALTERED BIOTITE MONZONITE
75.00	80.00	LIMONITIC BIOTITE MONZONITE
80.00	83.00	LIMONITIC ALTERED BIOTITE MONZONITE
83.00	92.00	LIMONITIC BIOTITE MONZONITE
92.00	98.00	LIMONITIC ALTERED BIOTITE MONZONITE
98.00	103.00	LIMONITIC BIOTITE MONZONITE
103.00	108.00	LIMONITIC ALTERED QUARTZ MONZONITE
108.00	115.00	BIOTITE MONZONITE
115.00	120.00	LIMONITIC ALTERED BIOTITE MONZONITE
120.00	126.20	LIMONITIC BIOTITE MONZONITE
126.20	140.00	SILTSTONE (EARN GROUP)
140.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	<p>Overburden =>LBM</p> <p>Overburden, as determined by drill site technician; 11.0m casing. Slightly damp; biotite monzonite with intense pervasive limonitic staining; minor organics; otherwise, much as described below; sericitic skins on many surfaces.</p>
4.00	28.00	<p>Limonitic Biotite Monzonite</p> <p>Rich orange biotite monzonite; strong, even, pervasive limonitic staining; original textures are very well preserved; weakly feldspar phyric, with fresh to slightly clay altered feldspar phenocrysts; equigranular, feldspar-rich matrix - grains are larger than those seen in monzonitic phases in the Main Trend; feldspar crystals retain original shape with excellent pearly lustre; weak, to locally moderate, dark orange-stained sericization - creates felted appearance which destroys pearly lustre.</p> <p><10% mm-scale biotite - black, but never perfectly fresh; biotite shows corroded edges which destroys original crystal form; very weak oxidation patches and very slight alteration (to sericite) on some biotite surfaces; minor patchy manganese oxide coating on biotite and some fractures.</p> <p>Rare, trace, very fine disseminated pyrite cubes <1/8mm which have been completely altered to limonite.</p> <p>9.0 - 14.0m: Stronger limonitic staining; increased sericite alteration - some chips have opaque, ultra fine granular appearance; felted-looking patches are common, but pearly lustre is still well preserved locally; trace manganese oxide, coating rare biotite and pyrite crystals - slightly more abundant than seen above; some chips with very strong sericization and very strong limonitic/hematitic staining; increased quantity of biotite.</p> <p>16.0 - 18.0m: Biotite is increasingly less well preserved; manganese oxide becomes more common, as coatings on ragged black biotite crystals and as thin dendritic tracings on some feldspar crystals; transitional.</p> <p>Note: Difficult to determine where unit phases between 'altered' and 'un-altered' - preservation of biotite is variable.</p> <p>16.0 - 22.0m: Very weakly calcareous - reaction to HCl, from unwashed sample only, is audible but not visible.</p> <p>24.0 - 26.0m: Significantly decreased pervasive limonitic staining.</p>
28.00	58.00	<p>Limonitic Altered Biotite Monzonite TR Py P4</p> <p>Rich, deep orange, altered biotite monzonite with strong to intense pervasive limonitic staining; original textures are well preserved, although feldspar-rich matrix displays stronger sericization which creates shimmery, wispy, felted look on otherwise pearly rock; occasional fragments are so strongly altered that they can be crushed with pressure from fingernail; several surface with dark orange to red sericitic, oxidation-stained skins, often accompanied by irregular spots of manganese oxide; original crystal shapes are preserved but edges show some smoothing.</p> <p>Biotite has usually completely altered to orange limonitic, sericitic to clay-like masses which may retain original crystal shape; biotite also as manganese oxide coated crystals with corroded margins and often with a deep red-black hue; very rare biotite crystals remain nearly fresh; most intensely limonite-stained chips contain least recognizable quantities of biotite.</p> <p>Very weakly calcareous matrix at 26.0 - 28.0m; no secondary quartz or quartz veinlets.</p> <p>Trace disseminated pyrite cubes <1/5mm have altered to dark red to black, occasionally manganese oxide coated, flecks of limonite; sulfide content is very slightly higher than that encountered higher in the hole.</p> <p>30.0 - 32.0m: Increased biotite content - less altered, but usually coated with manganese oxide.</p> <p>From 32.0m: Intense alterations; original textures more and more destroyed; very strong limonitic staining; slight increase in disseminated limonite/pyrite; numerous fragments can be crushed with pressure from fingernail; unit increasingly homogeneous in appearance.</p> <p>40.0 - 44.0m: Decreased sericization - many chips regain translucence; increased argillic alteration - larger feldspar crystals develop slightly waxy appearance or turn opaque, waxy and softer; some feldspar crystals marked with dendritic manganese oxide tracings; biotite remnants, corroded and coated with manganese oxide are altered away; slightly less competent;</p> <p>trace dark red cubic flecks of disseminated limonite <1/4mm after pyrite; clay in washed and</p>

From	To	Geological Log
		unwashed samples. 44.0 - 58.0m: Extremely altered, decomposed, sericite and clay altered chips are opaque, granular and rounded - easily destroyed with minor pressure; spotty manganese oxide on several surfaces - increased quantity compared to adjacent intervals; <1% dark red, sub-cubic flecks of limonite, often with corroded edges, after disseminated pyrite <1/4mm; sulfide content is slightly higher than seen in adjacent in adjacent samples; no noticeable increase in quartz content; no quartz veinlets or veinlet fragments; abundant clay, especially 50.0 -52.0m; <1% fresh black biotite flecks with corroded edges <1/2mm. 52.0 - 54.0m: Transitional into lower unit with increasingly better preserved biotite from 56.0m.
58.00	72.00	Limonitic Biotite Monzonite ->LABM C1 Greyish-orange biotite monzonite with very weak to increasingly strong pervasive limonitic staining; <10% biotite as black, near fresh crystals, often with corroded edges and pitted surfaces - frequently coated with manganese oxide; local borderline phase between altered and un-altered rock; biotite alteration increases with depth. Feldspar-rich matrix shows good pearly lustre and good crystal form; weakly feldspar phryic; very weak, localized sericitization creates crumbly, recrystallized fragments which can be destroyed with very slight pressure. Rare trace disseminated, manganese oxide coated pyrite <1/4mm. No quartz or quartz stockwork. Intensely calcareous at and near upper contact; weakly calcareous below 62.0m. Strongest limonitic staining on some fractures. From 68.0m: Noticeable increase in pervasive limonitic staining, which continues to increase to end of interval; significant increase in manganese oxide - all surfaces show spotty coating and unit has black, speckled appearance; slightly increased biotite content - some fresh crystals <2mm.
72.00	75.00	Limonitic Altered Biotite Monzonite C1 TR Py P4 Rich, deep orange limonitic altered biotite monzonite, as 28.0 - 58.0m; very weakly calcareous matrix; no secondary quartz or stockwork. Very strong, even pervasive limonitic staining; rare near fresh and manganese oxide coated biotite crystals; most biotite has altered to limonitic, sericitic shreds from which original crystal form is easily recognized; spotty manganese oxide coats many surfaces. Strong sericitization of feldspar-rich matrix; original textures are reasonably well preserved, with good pearly feldspar crystals where un-sericitized and slightly smoothed features where sericite alteration is strong; strong sericitization creates opaque, very fine grained, granular chips which can occasionally be destroyed with pressure from fingernail. Trace disseminated, dark red, sub-cubic limonitic flecks <1/4mm after pyrite; sulfides are often coated with manganese oxide.
75.00	80.00	Limonitic Biotite Monzonite C1 Greyish light orange biotite monzonite with weak pervasive limonitic staining, as 58.0 - 72.0m; weakly calcareous matrix; no secondary quartz as silicification or stockwork; abundant manganese oxide, often coats corroded, variably altered black biotite; variable sericitization; very weak clay-alteration locally gives very slightly waxy lustre; limonitic staining is slightly stronger on fractures.
80.00	83.00	Limonitic Altered Biotite Monzonite C1 Dark orange limonitic altered biotite monzonite, as 72.0 - 75.0m; no silicification or stockwork; very weakly calcareous matrix; trace completely oxidized and/or manganese oxide coated disseminated pyrite cubes <1/5mm; spotty manganese oxide on former biotite; pearly lustre.
83.00	92.00	Limonitic Biotite Monzonite ->LABM C1 Speckled medium grey-orange and black biotite monzonite; pervasive limonitic staining intensifies with depth; speckled appearance due to >10% near fresh to completely manganese oxide coated biotite - corroded edges and imperfect shapes; degree of alteration of biotite is variable throughout interval.

From	To	Geological Log
		<p>Original igneous textures are very well preserved; weakly porphyritic locally; moderate sericite alteration of pearly feldspar-rich matrix; patchy clay-alteration creates opaque, waxy crystals and clay blobs; crystal shapes are generally well preserved.</p> <p>Very rare, trace, disseminated, completely oxidized and limonite coated pyrite cubes <1/4mm.</p> <p>Weakly calcareous matrix; no quartz veinlets.</p> <p>88.0 - 92.0m: Very strong sericitization locally; some chips easily crushed with pressure from fingernail; increased to intense pervasive limonitic staining.</p>
92.00	98.00	<p>Limonitic Altered Biotite Monzonite C1</p> <p>Rich, bright, deep orange limonitic altered biotite monzonite; intense pervasive limonitic staining; feldspar-rich matrix shows moderate to strong sericite alteration - tiny, shimmery sericite crystals form felted coating on otherwise pearly crystal fragments; original grain boundaries are slightly smeared; the most altered chips are easily destroyed; larger feldspar crystals are opaque, waxy and argillically altered; <3% spotty manganese oxide replaces former corroded biotite; additional former biotite altered to sericitic, limonitic masses.</p> <p>Trace dark red limonite cubes <1/4mm after former disseminated pyrite.</p> <p>Very, very rare hairline quartz stringers; no larger quartz veinlets or veinlet fragments.</p> <p>Visually distinct from adjacent intervals.</p>
98.00	103.00	<p>Limonitic Biotite Monzonite C1</p> <p>Pearly grey and greyish-orange biotite monzonite, much as all intervals encountered so far; excellent crystal shapes; <10% fresh and near fresh, manganese oxide coated to corroded biotite crystals; no sulfides; increasingly more equigranular; weakly calcareous; no quartz veining; transitional into:</p>
103.00	108.00	<p>Limonitic Altered Quartz Monzonite ->LBM C1</p> <p>Dark orange biotite monzonite with very strong, even, pervasive limonitic staining; increased intensity of staining and sericitization to end of interval; good pearly lustre near upper 'contact'; weakly calcareous; no secondary quartz or veinlets; biotite is increasingly less well preserved - usually coated with manganese oxide - quantity decreases to end of interval; dark red limonite flecks <1/2mm after former disseminated pyrite; sharp lower contact.</p>
108.00	115.00	<p>Biotite Monzonite ->LBM C3</p> <p>Speckled green, grey, cream and black, weakly porphyritic biotite monzonite; 30-40% biotite - usually fresh and black, but commonly shows partial alteration, on crystal surfaces, to whitish sericitic masses; feldspar crystals are well formed, show excellent pearly lustre and range from clear and translucent to pale orange and opaque; twinning of feldspar crystals is often observed.</p> <p>Strongly calcareous matrix - carbonate content increases with depth - reaction to HCl lasts a very long time.</p> <p>No secondary quartz or quartz veining.</p> <p>No visible sulfides.</p> <p>Pervasive limonitic staining, which started out absent to very weak, intensifies with depth.</p> <p>Rare chips may show intensive sericitization and can be destroyed with minor pressure; manganese oxide, coating biotite, becomes more common with depth.</p>
115.00	120.00	<p>Limonitic Altered Biotite Monzonite ->LBM C3</p> <p>Bright, medium yellowish-orange monzonite; weak to moderate pervasive limonitic staining; very strongly sericite and clay altered - unwashed sample is clay-rich and washed sample contains fewer, slightly more competent altered fragments; original shapes are not well preserved although feldspar crystals are often well preserved; <3% biotite as corroded, manganese oxide coated to rarely fresh shapes; intensely calcareous matrix; all chips can be marked or crushed with pressure from fingernail; no quartz veining; very rare oxidized pyrite crystals <1/4mm.</p> <p>118.0 - 120.0m: Few limonite-stained clear quartz fragments <1/2cm with conchoidal fracture.</p> <p>Very poor recovery of competent washed material; dominantly as wet, clay-rich fines.</p>

From	To	Geological Log
120.00	126.20	<p>Limonitic Biotite Monzonite ->BM C3 Palest orange, pearly, well-fomed biotitic monzonite; intensely calcareous matrix - increasing carbonate to bottom of interval; manganese oxide commonly coats biotite; variable, but generally weak sericitization of feldspar-rich matrix; strongest oxidation along fractures; no sulfides; no quartz veining. Soft; poor recovery of competent washed sample - dominantly very fine material.</p>
126.20	140.00	<p>Siltstone (Earn Group) 70:30 GW+SH C3 Dark grey, fine grained, equigranular limey siltstone; angular platy fragments; chips are easily scratched with metal and occasionally with fingernail; white calcite on some surfaces; limonitic intrusive fragments are likely contamination from above; strong;y calcareous - intensity of reaction to HCl decrease from upper contact; no quartz veining; no sulfides; rare limey shale; original fine bedding laminations can be observed in many chips; rare fragments resemble very fine grained, argillically altered greywacke with small lithic fragments in a greyish matrix; non-carbonaceous. From 132.0m: >25% altered greywacke and shale-like horizons; clay-alteration creates bleached appearance and tends to enhance bedding features. From 136.0m: Many limonitic surfaces; even stronger argillic alteration; more greywacke; bedding horizons are increasingly better seen.</p>

*** END OF HOLE *** 140.00

HOLE NO: RC97-1994	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 124.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	5.50	OVERBURDEN
5.50	17.00	LIMONITIC BIOTITE MONZONITE
17.00	23.00	BIOTITE MONZONITE
23.00	25.50	LIMONITIC ALTERED SYENITE
25.50	48.00	BIOTITE MONZONITE
48.00	51.00	LIMONITIC ALTERED BIOTITE MONZONITE
51.00	58.00	ALTERED BIOTITE MONZONITE
58.00	124.00	SILTSTONE (EARN GROUP)
124.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	5.50	<p>Overburden =>LBM C1 Overburden, as determined by drill site technician; no sample to 4.0m. Limonitic biotite monzonite; dominantly black due to <50% black to partially altered, occasionally associated with manganese oxide, biotite; feldspar-rich matrix ranges from pearly and grey to orange and sericitic; weakly calcareous matrix; no quartz veining; no visible sulfides; darkest pervasive limonitic staining likely as envelopes along fractures.</p>
5.50	17.00	<p>Limonitic Biotite Monzonite ->BM Palest orange-grey biotitic monzonite with <10% chips with stronger pervasive limonitic staining which probably represents stained envelopes along fractures; chips which are less stained tend to retain better crystal form; sericitization of matrix feldspar is variable - locally intense, especially in limonitic chips - these strongly altered chips can be crushed with pressure from fingernail; intensely sericitized chips have homogeneous, very fine grained, granular (sucrosic) opaque appearance. No secondary quartz except for very rare, clear, hairline quartz veining; weakly calcareous matrix - reaction to HCl is more easily heard than seen. Trace rounded to sub-cubic flecks of dark red limonite (>5% on some chips) are observed on rare intensely altered fragments. 5.5 - 8.0m: Moderately calcareous. 8.0 - 17.0m: More strongly calcareous - vigorous reaction from unwashed sample; increasingly sericitized and chips have more homogeneous, fine, recrystallized and granular appearance, especially as biotite begins to break down. 10.0 - 17.0m: Increasingly biotitic, to 50%; <25% intensely limonite stained; intensely sericitized; increased manganese oxide; some fragments remain fresh looking and retain pearly lustre; increasing limonite staining from this point; dark, dirty-looking chips.</p>
17.00	23.00	<p>Biotite Monzonite C3 Blue-grey monzonite with 30-50% fresh black biotite; original, slightly feldspar phyric textures are very well preserved; sericitization of modal mafics ranges from absent, where crystals retain excellent crystal form, translucence and pearly lustre, to very strong where crystals appear felted and recrystallized and tend to be opaque; rare k-spar phenocrysts show weak clay alteration; strongly calcareous matrix. <5% chips with intense pervasive limonitic staining - likely related to envelopes around fractures. No quartz veining; no visible sulfides. Increasingly sericite and clay altered to end of interval.</p>
23.00	25.50	<p>Limonitic Altered Syenite TR Py P4 Clear, through pale orange to dark orange, equigranular, block syenite with absent to very strong pervasive limonitic staining; unit tends to break into similarly sized (average=3-4mm), sub-cubic fragments which retain feldspar crystal shape and translucence; fragments which lack staining resemble quartz except for shape and pearly lustre. No mafic minerals. Intense sericitization locally; non-calcareous; no quartz veining. <1% dark red, sub-cubic flecks of limonite <1/4mm represent minor quantities of former disseminated pyrite. Intensity of pervasive limonitic staining increases to lower contact. Note: Unit is visually distinct from adjacent units.</p>
25.50	48.00	<p>Biotite Monzonite C3 Dark blue-grey with cream-coloured speckles biotite monzonite; original igneous textures are very well represented; feldspar-rich matrix shows excellent pearly crystals, occasionally twinned, which are often weakly to moderately sericite altered; feldspar crystals are usually translucent - clear to faint pink; phyric crystals <3mm have cream hue, are opaque and are often sericite and/or clay altered. <40% black bititie - usually fresh, but shows variable alterations, usually to sericite and rarely coated with manganese oxide. Intensely calcareous matrix; clear, shiny calcite crystals are seen within matrix.</p>

From	To	Geological Log
		<p>No visible sulfides. No secondary quartz or quartz veining. Rare hematitic fragments to 32.0m likely represent stained envelopes along fractures; biotite is destroyed in these chips. Increasingly sericitized with depth - unit develops fine, sucrosic, faintly bleached appearance; rock competency decreases; opaque; crumbly looking.</p>
48.00	51.00	<p>Limonitic Altered Biotite Monzonite ->ABM C3 Brownish grey, intensely sericitized monzonite, as above; lacks phytic textures; intensely calcareous; all biotite is completely sericitized and is rarely coated with manganese oxide; homogeneous, felted, sucrosic, opaque appearance; very weak, pervasive limonitic staining - stronger orange staining along some fractures; no sulfides; no secondary quartz; decreasingly limonitic to bottom of interval.</p>
51.00	58.00	<p>Altered Biotite Monzonite C3 Intensely sericitized, calcareous, altered biotite monzonite; very much as 26.2 - 48.0m, near bottom of that interval; dark blue grey; no limonitic staining; original textures are discernible; altered black and sericitized biotite exists as fine, sub-mm shreds; felted, recrystallized appearance; no quartz veining; no sulfides; original textures are still discernible but are smoothed; increasingly homogeneous appearance; increased bleaching. 56.0 - 58.0m: <10% chips with weak pervasive limonitic staining, as 48.0 - 51.0m; large calcite clots; no longer resembles the same intrusive as encountered from 26.0m; intensely calcareous - reaction to HCl creates foul smelling gas.</p>
58.00	124.00	<p>Siltstone (Earn Group) C3 Dark grey, strongly calcareous (intense, rolling, smelly reaction to HCl is strongest in unwashed sample) siltstone; exactly as seen in RC97-1993 from 126.0m; angular, platy fragments can be scratched with metal; no oxidation; no sulfides; very rare opaque, white, calcite veinlet fragments <2mm; bedding laminations are often strongly evident - more so with depth; fine calcite dust often coats chip surfaces; no variation throughout interval. Note: Missing unwashed sample tray from 80.0 - 120.0m and washes sample tray for 120.0 - 124.0m. Weak argillic alteration begins at 80.0m. 92.0 - 104.0m: Rare weakly limonitic surfaces; trace fresh, ultra fine (<1/10mm) disseminated pyrite in calcite veinlets.</p>

*** END OF HOLE *** 124.00

HOLE NO: RC97-1995	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 160.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	8.00	OVERBURDEN
8.00	14.10	LIMONITIC ALTERED BIOTITE MONZONITE
14.10	20.50	LIMONITIC BIOTITE MONZONITE
20.50	21.50	LIMONITIC ALTERED BIOTITE MONZONITE
21.50	52.00	LIMONITIC BIOTITE MONZONITE
52.00	55.00	LIMONITIC ALTERED BIOTITE MONZONITE
55.00	65.00	LIMONITIC BIOTITE MONZONITE
65.00	67.20	LIMONITIC BIOTITE MONZONITE
67.20	68.80	BIOTITE MONZONITE
68.80	70.00	LIMONITIC BIOTITE MONZONITE
70.00	80.00	LIMONITIC BIOTITE MONZONITE
80.00	100.00	BIOTITE MONZONITE
100.00	124.00	BIOTITE MONZONITE
124.00	160.00	SILTSTONE (EARN GROUP)
160.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	8.00	<p>Overburden =>LBM+LABM TR Py C1 Overburden, as determined by drill dite technician. Rich, dark orange biotite monzonite, as will be described below; damp and soil-like with some organic materal (twigs, etc) until 6.0m; 6.0 - 8.0m interval closely resembles underlying rock; chip size is slightly larger than those created when rock is harder; weakly calcareous to 6.0m; biotite is fresh tp partially altered, often coated with manganese oxide; variable sericitization; where not sericitized, chips have translucence and excellent pearly lustre; trace dark red, sub-cubic fleck of limonite <1/8mm after former pyrite - occasional chips show greater concentrations; intense pervasive limonitic staining locally; no quartz veining.</p>
8.00	14.10	<p>Limonitic Altered Biotite Monzonite C3 TR Py P4 Rich, bright orange limonitic altered quartz monzonite; original textures are not well preserved - unit tends to break along crystal boundaries; feldspar crystals are alternately well formed, translucent but orange-stained, and retain excellent pearly lustre, or are very strongly sericitized with opaque, felted surfaces and smoothed crystal edges. Biotite crystals have altered to orange, sericitized masses or are coated with irregular spots of manganese oxide; rare fresh biotite crystals right at upper contact; concentrations of biotite/biotite remnants decreases to lower contact. Trace fromer disseminated pyrite <1/3mm as dark red sub-cubic flecks; former sulfides are also very rarely coated with manganeeas oxide. Rock shows intense pervasive limonitic staining; sericitization and weaker argillic alteration of feldspar-rich matrix intensifies to end of interval; occasional chips are so altered that they can be destroyed with pressure from fingernail. Rare orange-stained quartz veinlets and veinlets fragments <4mm; quartz is often very difficult to differentiate from feldspar. Very strongly calcareous matrix - instantaneous, vigorous reaction to HCl.</p>
14.10	20.50	<p>Limonitic Biotite Monzonite C3 Biotite monzonite; variable, but generally strong, pervasive limonitic staining; excellent igneous textures; feldspar crystals retain good shape, luminosite and pearly lustre; no modal quartz. <10% fresh black to slightly corroded limonitic and/or sericitic biotite - increasiingly abundant to lower 'contact'; trace manganese oxide coating; very strongly calcareous matrix. Trace dark red limonite flecks <1/5mm after former disseminated pyrite. Gradational contacts.</p>
20.50	21.50	<p>Limonitic Altered Biotite Monzonite C3 Limonitic altered biotite monzonite, as 8.0 - 14.1m.</p>
21.50	52.00	<p>Limonitic Biotite Monzonite C3 Biotite monzonite; moderate to locally strong pervasive limonitic staining; equigranular to weakly phyrlic; occasional chips are greyish where they lack limonitic staining; unit tends to break along grain boundaries in feldspar phyrlic matrix; excellent pearly to sub-vitreous lustre from translucent crystals; twinning in feldspar crystals is occasionally observed; no modal quartz; very strongly calcareous matrix. <10% biotite - much is fresh and black while others are weakly to moderately sericitized and oxidized (with erose edges) and are frequently coated with manganese oxide; quantity and quality of biotite is variable throughout. Very, very rare completely oxidized, very, very fine disseminated pyrite. No quartz veinlets or veinlet fragments. Strong sericitization of feldspar locally destroys crystals. <20% locally, of un-stained chips - percentages vary from sample to sample.</p>
52.00	55.00	<p>Limonitic Altered Biotite Monzonite C3 TR Py P4 S1 Sk Sericitized, calcareous, very strongly limonitic monzonite, as 8.0 - 14.1m; biotite altered to limonite; feldspar surfaces are commonly sericite altered but still show translucence. Weak mm-scale, clear, orange-stained quartz veinlets - more common near lower contact; rare trace disseminated limonite after pyrite. 54.0 - 55.0m: Strong mm-scale quartz stockwork; intense sericite and clay alteration; opaque chips, due to alterations; significant decrease in competence; original textures are not</p>

From	To	Geological Log
		preserved. Gradational contacts.
55.00	65.00	Limonitic Biotite Monzonite C3 Biotite monzonite with variable pervasive limonitic staining, as 21.5 - 52.0m; <10% unoxidized chips locally; possibly contains some hornblende; mafic content <10% but increases to end of interval; variable alteration intensities - generally increasing to end of interval. 62.0 - 64.0m: <1% clear quartz as angular fragments <4mm and as sub-mm, hematite-stained veinlets. 64.0 - 65.0m: >20% biotite; very strong sericitization of feldspar-rich matrix; hematitic hairline fractures.
65.00	67.20	Limonitic Biotite Monzonite C3 Dark orange, intensely sericitized monzonite; all biotite has altered to limonitic sericite; original textures destroyed; opaque, granular, incompetent chips; trace dark red flecks of limonite after disseminated pyrite; trace manganese oxide; no quartz; strongly calcareous.
67.20	68.80	Biotite Monzonite C3 Dark grey, fine grained, calcareous, sericite and clay altered monzonite; biotite completely altered; all original features and textures destroyed; limonitic staining along fractures; no longer resembles typical monzonite; no quartz; trace mm-size clots of fresh, yellow pyrite; resembles siltstone, but some chips display destroyed biotite fragments.
68.80	70.00	Limonitic Biotite Monzonite C3 As 65.0 - 67.2m; very strong limonitic staining and alterations; no quartz; no sulfides; intensely calcareous.
70.00	80.00	Limonitic Biotite Monzonite 50:50 Biotite Monzonite C3 Biotite monzonite, as 21.5 - 52.0m; <50% un-oxidized fragments - quantity increases with depth; stronger sericitization - locally intense; >25% biotite, usually fresh; increasing quantities of hornblende; rare bleached fragments; original textures increasing well preserved; no sulfides; no quartz; transitional into:
80.00	100.00	Biotite Monzonite 95:5 Limonitic Biotite Monzonite C3 Greenish grey, slightly phyrlic biotite monzoite; original textures are very well represented; <40% fresh black biotite; feldspar-rich matrix alternately excellently preserved, pearly, twinned, translucent crystals to felted, opaque, sucrosic-looking, variably sericitized chips; some larger crystals show argillic alteration. Transitional phase; <5% chips with weak pervasive limonitic staining; feldspar crystals often show pinkish hue; rock reminds me of diorite; mixture of hornblende and biotite; fewer light coloured minerals with depth.
100.00	124.00	Biotite Monzonite C3 Dark blue grey, strongly biotitic, sericitic monzonite, much as 80.0 - 100.0m; good igneous feldspar phyrlic texture; weak milky mm-scale quartz stockwork; very strongly calcareous; no sulfides; no limonite or limonitic staining; increasingly sericitized; biotite becoming altered; fewer white minerals. Original textures blurred below 107.0m. Overall colour darkens to very dark blue-black with >50 biotite locally; minor oxidation at lower contact.
124.00	160.00	Siltstone (Earn Group) C3 Medium to dark grey, very fine grained equigranular siltstone, as encountered at the bottom of RC97-1993 and RC97-1994; fine carbonate in matrix - vigorous and instantaneous reaction to HCl, especially from unwashed powder. Fine bedding laminations are easily recognized; chips are platy to blocky; unit can be scratched with soft metal. Very rare calcite veinlets <2mm; very rare quartz veinlets <2mm - more common from 144.0m. Very rare, trace very weakly oxidized and/or fresh pyrite on some fracture surfaces; rare tarnished pyritic fragments <3mm of diagenetic origin - ubiquitous below 150.0m and usually associated with quartz veinlets; very rare patchy limonite.

From	To	Geological Log
		No variability throughout interval - pretty boring. Tends toward argillically altered greywacke locally. 124.0 - 132.5m: Lighter grey; bleached looking; slightly greater grain size; hard, blocky fragments; bedding planes are not evident; no veins; no sulfides; could possibly be very fine grained non-biotitic intrusive??? - resembles 65.0 - 70.0m.

*** END OF HOLE *** 160.00

HOLE NO: RC97-1996 SECTION: 18700 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	17144.08mN	18697.01mE	926.10RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 214.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	65.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	OVERBURDEN
4.00	6.00	LIMONITIC SYENITE
6.00	12.00	LIMONITIC SYENITE
12.00	18.00	LIMONITIC SYENITE
18.00	38.00	LIMONITIC BIOTITE MONZONITE
38.00	41.00	LIMONITIC ALTERED SYENITE
41.00	42.00	LIMONITIC BIOTITE MONZONITE
42.00	48.00	LIMONITIC SYENITE
48.00	56.00	LIMONITIC SYENITE
56.00	58.50	LIMONITIC ALTERED SYENITE
58.50	68.00	LIMONITIC SYENITE
68.00	74.50	LIMONITIC BIOTITE MONZONITE
74.50	80.00	LIMONITIC ALTERED SYENITE
80.00	85.00	LIMONITIC ALTERED SYENITE
85.00	90.00	LIMONITIC ALTERED SYENITE
90.00	98.00	LIMONITIC ALTERED SYENITE
98.00	102.00	LIMONITIC ALTERED BIOTITE MONZONITE
102.00	103.40	LIMONITIC ALTERED SYENITE
103.40	109.90	BIOTITE MONZONITE

Checked and signed: _____ Date: _____

HOLE NO: RC97-1996

SECTION: 18700

GRID: MINE

109.90	111.50	LIMONITIC ALTERED BIOTITE MONZONITE
111.50	122.00	LIMONITIC BIOTITE MONZONITE
122.00	134.10	BIOTITE MONZONITE
134.10	140.50	LIMONITIC ALTERED BIOTITE MONZONITE
140.50	144.00	LIMONITIC BIOTITE MONZONITE
144.00	147.00	LIMONITIC ALTERED SYENITE
147.00	148.20	SYENITE
148.20	149.00	LIMONITIC ALTERED SYENITE
149.00	171.00	LIMONITIC SYENITE
171.00	197.40	BIOTITE MONZONITE
197.40	204.00	BIOTITE MONZONITE
204.00	205.00	ALTERED BIOTITE MONZONITE
205.00	207.00	ALTERED BIOTITE MONZONITE
207.00	214.00	SILTSTONE (EARN GROUP)
214.00		END OF HOLE

Checked and signed: _____

Date: _____

From	To	Geological Log
0.00	4.00	<p>Overburden =>LSY C1 Overburden, as determined by drill site technician; wet; organics. Orange to greyish orange syenite (? - pearly to translucent, equigranular feldspar-rich unit) with <10% mafics; mafic minerals dominantly imperfect hornblende crystals which have slightly micaceous appearance locally and more rare crystals <1/10mm with both amphibolitic and pyroxenitic cross sections; rare biotite, usually altered to sericitic, limonitic masses which are observed on chip surfaces; very weakly calcareous; several fragments with intense pervasive limonitic staining and sucrosic, recrystallized appearance; very, very rare oxidized pyrite crystals <1/4mm. Note: Overburden possibly extends to 6.0m.</p>
4.00	6.00	<p>Limonitic syenite C1 Syenite with moderate to strong pervasive limonitic staining; not silicified; very weakly calcareous; very, very rare oxidized pyrite; see description above; increasingly biotitic; excellent textures.</p>
6.00	12.00	<p>Limonitic syenite Bright yellowish orange syenite; moderate, even, pervasive limonitic staining; much as 4.0 - 6.0m; well formed equigranular feldspar-rich matrix shows pearly lustre but is now more opaque than translucent; <10% fresh to slightly altered hornblende crystals; minor former biotite has completely altered to orange-stained sericitic masses which are frequently observed on chip surfaces; non-calcareous; not silicified; no sulfides. Poor recovery of non-fine washed chips, possibly due to argillic alteration/weathering. Lower contact assigned where recovery of washed sample improves, unit becomes less opaque and intensity of pervasive limonitic staining deepens.</p>
12.00	18.00	<p>Limonitic syenite ->LBM C1 Rich, bright orange syenite; strong, even, pervasive limonitic staining; feldspar-rich matrix excellently retains original textures along with translucence and pearly lustre; <5% unaltered mafics remain - as altered and fresh biotite and hornblende; dark orange sericitic masses, often representing former mafics, especially biotite, and are viewed on most surfaces; spotty manganese oxide coats some former mafics; increasingly biotitic; very weakly calcareous matrix; no secondary quartz; very, very rare oxidized pyrite. Matrix increasingly sericitic and orange stained to lower contact.</p>
18.00	38.00	<p>Limonitic Biotite Monzonite Greyish orange biotite monzonite; weak to moderate pervasive limonitic staining; <10% biotite as fresh black crystals with sericitic margins and infrequently coated with splotchy manganese oxide; very very rare hornblende - more concentrated locally; fine grained equigranular feldspar-rich matrix shows translucent, pearly to sub-vitreous lustre and some twinning; rare clear quartz chips; non-calcareous; no quartz veining; no sulfides; ubiquitous limonitic, sericitic clots on some chip surfaces is almost invariably due to intense alteration of some former biotite. 26.0 - 28.0m: Very weak limonitic staining; abundant biotite, usually fresh and black, but displaying variable sericitization; unit has powdery, felted appearance locally. From 28.0m: Increasing quantities of hornblende; biotite shows stronger alterations but much still remains fresh; patchy argillic alteration; transitional phase? 32.0 - 34.0m: Brighter orange than majority of interval; abundant manganese oxide. 36.0 - 38.0m: Stronger sericitization.</p>
38.00	41.00	<p>Limonitic Altered Syenite C1 Rich, bright orange syenite; very strong pervasive limonitic staining; <2% mafic component - usually hornblende with lesser biotite; biotite typically altered to limonite/sericite and often coated with manganese oxide; hornblende as small crystals which appear corroded; feldspar-rich matrix retains original crystal forms and pearly lustre but is more often opaque than translucent - shows weak localized sericitization locally. No quartz veins; no sulfides; weakly calcareous matrix. Visibly distinct from adjacent rocks.</p>

From	To	Geological Log
41.00	42.00	Limonitic Biotite Monzonite C1 Biotitic monzonite, as 18.0 - 38.0m; very weakly calcareous; no quartz; no sulfides.
42.00	48.00	Limonitic syenite ->LASY C1 Greyish light orange syenite; much as 38.0 - 41.0m; equigranular feldspar-rich matrix with excellent crystal form, translucence and pearly lustre; <5% mafics - mostly as small black, slightly corroded hornblende and fresh black to partially sericitized (along margins) fine biotite; weakly to moderately calcareous; no quartz veining; no sulfides; minor intense localized sericite alteration.
48.00	56.00	Limonitic syenite C3 Syenite, as 42.0 - 48.0m; very strongly calcareous matrix; no quartz; no sulfides; rare intense pervasive silicification is likely related to fractures; some hornblende appears to be replaced by biotite.
56.00	58.50	Limonitic Altered Syenite C3 Dark orange and orange-grey, very strongly to intensely sericitized feldspar-rich, mafic-poor intrusive; all surfaces coated with sericite-carbonate coating which creates felted, dirty appearance; original textures destroyed or overprinted; no quartz; no sulfides; sericitization likely due to some structure.
58.50	68.00	Limonitic syenite ->LBM C3 Greyish orange syenite, as 48.0 - 56.0m; intensely calcareous matrix; calcite crystal fragments <1cm are encountered near upper contact; strong sericitization locally; very, very rare, clear, hairline quartz veinlets; no sulfides; 5-10% mafics - hornblende-rich at top becoming increasingly biotite-rich; alteration of mafics varies throughout but significant quantities of fresh crystals always remain; no quartz veining; no sulfides.
68.00	74.50	Limonitic Biotite Monzonite ->LSY C3 As 58.5 - 68.0m; brighter, richer orange staining; biotite as dominant mafic mineral although hornblende is still plentiful; weak to moderate patchy sericitization; pervasive limonitic staining intensifies with depth; strongly calcareous; no quartz; no sulfides; some hornblende appears to be altered to biotite. 68.0 - 70.0m: <2% cloudy quartz fragments.
74.50	80.00	Limonitic Altered Syenite C3 S1 Sk Rich, deep orange, feldspar-rich intrusive (syenite) with intense pervasive limonitic staining; <2% mafic minerals (hornblende and/or biotite, where biotite shows stronger alterations); original textures well preserved but feldspar crystals have felted, opaque, sericitized appearance - intense sericite alteration locally. <5% cloudy quartz veinlets fragments locally, plus weak silicification locally which is often associated with more hematitic staining.
80.00	85.00	Limonitic Altered Syenite C3 As 74.5 - 80.0m, but lacks silicification and quartz veining; intensely calcareous; rare calcite veinlet fragments <2mm; original textures well preserved; most surfaces show sericitization; very, very rare fresh biotite crystals; hornblende crystals are rare and aren't usually strongly altered; no sulfides.
85.00	90.00	Limonitic Altered Syenite ->LBM C3 As 80.0 - 85.0m; feldspar-rich intrusive - syenite or monzonite with <5% hornblende and biotite; mafics usually aren't completely altered; intensely calcareous; rare calcite veinlets; no quartz veinlets; no sulfides. Note: I can't really determine what rock type I'd like to classify this unit as. 85.0 - 88.0m: 10% blue biotite monzonite.
90.00	98.00	Limonitic Altered Syenite C3 S1 Sk Rich dark orange feldspar-rich intrusive (syenite to monzonite) as described above; all mafics completely altered away; fine sericite coats most surfaces, often former biotite and modal feldspar; intensely calcareous matrix and moderate calcite stockwork (veinlets <4mm wide); very rare limonite stained clear quartz veinlet fragments < 1cm and occasional mm-scale cloudy

From	To	Geological Log
		veinlets; abundant manganese oxide; no sulfides. 92.0 - 94.0m: Mafics are often fresh; hornblende dominates. Fresh biotite near lower contact.
98.00	102.00	Limonitic Altered Biotite Monzonite C3 Lighter yellowish orange feldspar-rich intrusive (monzonite); no mafic minerals preserved; matrix has slightly waxy lustre due to weak to moderate pervasive argillic alteration; darker orange limonitic, sericitic masses on chip surfaces represent former altered biotite; most chips are incompetent and are easily destroyed with pressure from fingernail; original textures are blurred; intensely calcareous matrix; no quartz veining; no visible sulfides; <10% chips lack staining; alterations increase to lower contact.
102.00	103.40	Limonitic Altered Syenite C3 Hornblende syenite, as 90.0 - 98.0m; intensely calcareous; strong limonitic staining; intense sericitization.
103.40	109.90	Biotite Monzonite ->LBM C3 Weakly orange, dominantly greyish biotite monzonite; <25% biotite - fresh and black but often with sericitized rims and core; biotite also limonitic; pearly, translucent feldspar-rich matrix occasionally shows patchy sericitization and is intensely calcareous; several clear, hairline calcite stringers; no visible sulfides. Limonitic staining as envelopes along probable fractures and as weak to locally moderate pervasive staining; borderline phase.
109.90	111.50	Limonitic Altered Biotite Monzonite ->LBM C3 Rich, dark reddish-orange monzonite; most mafics sericitized; rare dark red limonite flecks after disseminated pyrite; original textures are very well preserved; no quartz; calcareous.
111.50	122.00	Limonitic Biotite Monzonite ->BM C3 Sk Greyish orange biotite monzonite; weak to moderate pervasive limonitic staining; biotite and lesser hornblende (<20% locally) usually fresh to weakly altered and occasionally coated with manganese oxide; excellent translucent pearly lustre and crystal form in feldspar-rich matrix, especially where staining is less strong; stronger sericitization is associated with stronger limonitic staining - locally very strong; calcite veinlets and intensely calcareous fragments to >1cm; pervasive staining intensifies with depth; no quartz veinlets; no sulfides.
122.00	134.10	Biotite Monzonite C3 Sk Dark blue-grey to teal monzonite with >40% black biotite locally; much biotite remains fresh and black, but alteration along rims is common; sericitization of biotite and modal feldspar is very strong locally and creates felted to sucrosic texture, although original textures and features are very well preserved; intensely calcareous matrix; weak calcite veining; no quartz; no visible sulfides.
134.10	140.50	Limonitic Altered Biotite Monzonite C3 Rich dark reddish orange, feldspar-rich, mafic-poor intrusive; very strong pervasive limonitic staining; sub-vitreous to waxy lustre; sub-translucent; intensely calcareous; sericitic skins on several surfaces; very weak silicification locally; no quartz veinlets; no calcite veinlets; rare manganese oxide; very, very rare completely oxidized disseminated sulfides.
140.50	144.00	Limonitic Biotite Monzonite 70:30 Biotite Monzonite C3 Biotite monzonite, as 122.0 - 134.1m, but with <20% biotite and moderate to strong pervasive limonitic staining; <30% unstained chips which are more strongly biotitic; intensely calcareous; spotty manganese oxide throughout; no quartz; no sulfides; contains some hornblende which typically lacks alteration.
144.00	147.00	Limonitic Altered Syenite C3 Rich, bright orange syenite, as 90.0 - 98.0m; very strong pervasive limonitic staining; rare hornblende and biotite - possibly coated with manganese oxide; biotite remains as orange sericitic masses on chip surfaces; feldspar-rich matrix with good sub-vitreous to pearly, translucent appearance; very strongly calcareous matrix; no calcite veinlets; no quartz veinlets;

From	To	Geological Log
		no sulfides.
147.00	148.20	Syenite ->LSY C3 Grey to pale orange syenite as 144.0 - 147.0m, but contains >10% irregular hornblende crystals; weak patchy sericitization.
148.20	149.00	Limonitic Altered Syenite C3 Syenite, as 144.0 - 147.0m.
149.00	171.00	Limonitic syenite ->LAS Y C3 Syenite, as 144.0 - 147.0m, but with increasing quantities of fresh to partially altered hornblende and biotite; moderate pervasive limonitic staining; intensely calcareous; patchy sericite and carbonate on chip surfaces; sub-vitreous to pearly lustre; original textures well preserved; very rare cloudy quartz veinlet fragments; no sulfides. Increasingly biotitic with depth; local decreases in total mafic content. 155.0 - 158.0m: >75% blueish biotitic monzonite to syenite. From 160.0m: Rare tarnished pyritic chips <1/2cm; hornblende appears to be micaceous. From 167.0m: Transition in and out of stained and unstained intrusive (<40%); moderate calcite veining - <5% fragments <4mm; dirty looking chips; intense sericitization.
171.00	197.40	Biotite Monzonite C3 Sk Dark blue biotite monzonite, as 122.0 - 134.1m; <50% biotite - black but showing variable sericitization; intensely calcareous; moderate to locally strong calcite stockwork with white, opaque veinlet fragments <1cm; dark red limonitic staining in envelopes around former fractures; minor chloritization; increasingly speckled appearance; excellent textures; intense sericitization locally; no quartz veining; no sulfides.
197.40	204.00	Biotite Monzonite 50:50 Limonitic Altered Biotite Monzonite C3 Sk Biotite monzonite, as 171.0 - 197.4m, but contains <50% fragments with very strong limonitic/hematitic staining and completely altered biotite; calcite veinlets show limonitic staining; abundantly sericitic; rock in this interval was likely quite fractured; increasingly altered to lower contact.
204.00	205.00	Altered Biotite Monzonite 50:50 Limonitic Altered Biotite Monzonite C3 As above, but all components are intensely sericitized/altered; all original features and textures are destroyed.
205.00	207.00	Altered Biotite Monzonite ->LST* C3 Mottled grey, hard, waxy looking, intensely calcareous unit; possibly intensely altered monzonite; limestone????, but too hard; blueish hue locally; some pieces resemble calcite healed quartz conglomerate/breccia; some grey calcareous siltstone. <2% fresh pyrite as clusters. Note: No other units encountered so far resemble this one.
207.00	214.00	Siltstone (Earn Group) C2 Dark grey, siliceous, non-graphitic, moderately calcareous (best reaction to HCl from unwashed sample and is considerable weaker than that observed in adjacent units) siltstone to fine grained sandstone; rare, subtle hairline quartz stringers; very, very rare fresh pyrite. 208.0 - 210. M: No sample.

*** END OF HOLE *** 214.00

HOLE NO: RC97-1997 SECTION: 18780 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED 17034.10mN 18779.53mE 930.23RL

Pre-collar depth: Final depth: 206.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	65.00	-55.00

*** SUMMARY LOG ***

0.00 4.00 OVERBURDEN
 4.00 27.50 LIMONITIC ALTERED
 SYENITE
 27.50 86.00 LIMONITIC ALTERED
 SYENITE
 86.00 88.50 LIMONITIC ALTERED
 SYENITE
 88.50 90.10 LIMONITIC ALTERED
 SYENITE
 90.10 91.90 LIMONITIC ALTERED
 SYENITE
 91.90 94.50 LIMONITIC ALTERED
 SYENITE
 94.50 96.00 LIMONITIC ALTERED
 SYENITE
 96.00 116.50 LIMONITIC ALTERED
 SYENITE
 116.50 124.50 LIMONITIC ALTERED
 SYENITE
 124.50 127.00 LIMONITIC ALTERED
 SYENITE
 127.00 128.10 LIMONITIC SYENITE
 128.10 131.00 LIMONITIC ALTERED
 SYENITE
 131.00 135.90 LIMONITIC ALTERED
 SYENITE
 135.90 142.50 LIMONITIC ALTERED
 SYENITE
 142.50 152.00 LIMONITIC ALTERED
 SYENITE

Checked and signed: _____ Date: _____

HOLE NO: RC97-1997

SECTION: 18780

GRID: MINE

152.00	163.50	LIMONITIC BIOTITE MONZONITE
163.50	165.20	LIMONITIC ALTERED BIOTITE MONZONITE
165.20	166.00	LIMONITIC BIOTITE MONZONITE
166.00	169.00	LIMONITIC ALTERED BIOTITE MONZONITE
169.00	172.00	LIMONITIC ALTERED BIOTITE MONZONITE
172.00	184.00	BIOTITE MONZONITE
184.00	191.00	SILTSTONE (EARN GROUP)
191.00	194.50	SILTSTONE (EARN GROUP)
194.50	206.00	SILTSTONE (EARN GROUP)
206.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	<p>Overburden =>LASV C1 Overburden, as determined by drill site technician; damp, mud covered chips; minor organics. Orange, fine grained, equigranular, feldspar-rich intrusive (syenite) with 5-10% hornblende and lesser biotite; hornblende shows surface corrosion locally, but is generally unaltered; biotite usually shows alteration to limonitic, sericitic masses which adhere to chip surfaces; original textures are very well preserved; sub-translucent matrix displays excellent pearly lustre locally; very, very weakly calcareous; some planar surfaces show thin hematite-stained siltskins which are indicative of near surface weathering; no secondary quartz; no sulfides.</p>
4.00	27.50	<p>Limonitic Altered Syenite Dark orange-brown syenitic intrusive with strong pervasive limonitic staining; fine grained equigranular feldspar-rich unit breaks along grain boundaries into small (<1/2cm) chips - original textures are destroyed and crystal boundaries are smoothed; original pearly lustre is observed locally but most chips are coated with orange-stained sericite which creates dirty, felted appearance; sericite due to alteration of all modal constituents; former biotite very, very rarely recognized by occasional limonitic, sericitic pseudomorphs; irregular, splotchy dark brown to black manganese oxide coats most surfaces; intensely altered chips are easily scratched or destroyed; homogeneous appearance throughout. No quartz veining although very rare, angular, orange-stained quartz fragments are observed; non-calcareous; very, very rare dark red cubic limonite flecks after former disseminated pyrite <1/4mm. From 10.0m: Some (<1%) feldspar crystals show argillic alteration. 14.0 - 18.0m: Translucence and good pearly lustre and crystal form returns; feldspars are less sericitized; manganese oxide is less common; rare fresh black hornblende is observed.</p>
27.50	86.00	<p>Limonitic Altered Syenite Medium orange-brown syenitic intrusive; 'fresh' version of rock described 4.0 - 27.5m; fine grained, equigranular feldspar-rich matrix shows translucence, pearly lustre and moderate to strong pervasive limonitic staining; all textures are perfectly preserved; <10% black hornblende as fresh to very slightly altered crystals; very rare biotite shows sericitization; patchy sericitization; non-calcareous; no quartz. No sulfides; no quartz veining. From 36.0m: Fine grey to green sericite as discontinuous coatings on several surfaces; becomes greenish due to decrease in intensity of pervasive limonitic staining; hornblende shows patchy, incomplete alteration to green-grey powder and some biotite. 44.0 - 74.0m: Assays show this interval to have slightly elevated gold values, but nothing suggests why; no quartz veinlets; very, very, very rare oxidized pyrite; 10-20% chips with deep hematitic/limonitic staining - possibly related to fractures 78.0 - 80.0m: <20% fragments with intense, deep orange staining of waxy, opaque feldspar-rich matrix; minerals in fragments appear stretched/sheared with abundant micro lensoidal features; possible related to small scale shear. Very weakly calcareous nearest lower contact.</p>
86.00	88.50	<p>Limonitic Altered Syenite C3 Rich, deep orange feldspar-rich syenite; matrix shows intense sericitization and carbonate - reaction to HCl is instantaneous and rolling; deeply orange-stained fine material coats chip surfaces creating felted, opaque, dirty-looking appearance; original textures are discernible but aren't well preserved; numerous feldspars have been argillically altered to earthy, opaque, poorly preserved crystals - some of the better preserved crystals are patterned with fine, dendritic manganese oxide; spotty manganese oxide throughout; all hornblende and biotite has been completely altered way; note: does not resemble adjacent hornblende syenites but is the same unit which has been differently altered. No quartz veinlets; no sulfides.</p>

From	To	Geological Log
88.50	90.10	Limonitic Altered Syenite C3 Excellently preserved hornblendic syenite, as 27.5 - 86.0m; surfaces coated with very fine calcareous-sericitic powder.
90.10	91.90	Limonitic Altered Syenite C3 Increasingly altered syenite, as 86.0 - 88.5m; intensely calcareous, sericitic; rare slickensided fragments; trace fresh black biotite.
91.90	94.50	Limonitic Altered Syenite C3 Hornblendic syenite, as 88.5 - 90.1m, but mafics are strongly altered and surfaces are frequently biotitic; very strong pervasive limonitic staining; intensely calcareous; no quartz; no sulfides; increasingly altered into:
94.50	96.00	Limonitic Altered Syenite C3 Sericitic, calcareous, limonitic, dirty-looking syenite, as 86.0 - 88.0m; all mafics completely altered; abundant manganese oxide; powdery orange sericite and carbonate coats surfaces; original textures moderately well preserved; no quartz veining; no visible sulfides.
96.00	116.50	Limonitic Altered Syenite Hornblendic syenite, as 27.5 - 86.0m, but with very strong, even pervasive limonitic staining; excellent texture; translucent pearly lustre; patchy sericitization; rare argillic alteration; patchy manganese oxide on planar surfaces and coating some hornblende; no quartz veins; no sulfides. 99.0 - 107.0m: Greyish, due to decreased staining; increasingly biotitic and alteration of mafic minerals enhanced; <5% mafic from 103.0m. 107.0 - 116.5m: Brighter orange; chips break along sub-cubic feldspar grain boundaries; <5% partially altered hornblende; excellent pearly lustre; chips sub-translucent; strong pervasive argillic and sericitic alteration locally, especially 110.0 - 112.0m; mafic content tends to decrease more toward lower contact.
116.50	124.50	Limonitic Altered Syenite C1 Greyish orange, pearly, sub-translucent, weakly calcareous and sericitic hornblendic syenite, much as 27.5 - 86.0m; minor altered biotite; pervasive orange staining intensifies slightly with depth; no quartz; no sulfides.
124.50	127.00	Limonitic Altered Syenite Bright orange, sericitized, non-calcareous syenite, as 86.0 - 88.5m; all mafic minerals destroyed; crystal form and lustre are well preserved; intensely, pervasively sericitized locally.
127.00	128.10	Limonitic syenite As 124.5 - 127.0m, but with some fresh black to sericitized biotite and hornblende; no quartz; no sulfides; biotite more plentiful than has been seen so far; intensely sericitized; intense pervasive limonitic staining.
128.10	131.00	Limonitic Altered Syenite As 124.5 - 127.0m; intensely altered syenite.
131.00	135.90	Limonitic Altered Syenite ->LSY Greyish orange hornblendic syenite, as 27.5 - 86.0m; non-calcareous; no quartz veins; no sulfides; green-grey sericite observed on most surfaces; hornblende partially altered; rare biotite, usually altered but very rarely fresh and black; excellent crystal form; strong pearly lustre.
135.90	142.50	Limonitic Altered Syenite Rich, deep orange syenitic intrusive; very strong pervasive limonitic staining; original textures are easily discerned but feldspar-rich matrix is intensely sericite altered, often to incompetent, sugrosic masses; hornblende and lesser biotite has altered to corroded, frequently manganese oxide coated forms; no quartz veins; no visible sulfides; shear zone??

From	To	Geological Log
142.50	152.00	<p>Limonitic Altered Syenite ->LSY Sericitized syenite, as all units above; good textures; strong pervasive staining; hornblende appears to be replaced with black biotite; intense sericitization locally; no quartz; no sulfides. Note: If secondary biotite is black, should the unit be assigned as "altered" or "unaltered"? Transitional into:</p>
152.00	163.50	<p>Limonitic Biotite Monzonite C3 Sk Light greyish orange, feldspar-rich intrusive (monzonite?); 10% fresh (to slightly sericitized) biotite and lesser biotitic hornblende; sercite-carbonate powder coats moderately well formed matrix; dirty, felted appearance; minor patchy argillic alteration and localized intense pervasive sericitization; several mm-scale, opaque calcite veinlets and veinlet fragments; no quartz; no sulfides; resembles hornblending syenite locally; increasing limonitic staining to lower contact.</p>
163.50	165.20	<p>Limonitic Altered Biotite Monzonite C3 Bright deep orange monzonite; intense, even, pervasive limonitic staining; waxy, opaque appearance due to pervasive argillic and sericitic alteration; original textures are discernible but smoothed; all mafics altered away or coated with manganese oxide; intensely calcareous matrix; very rare calcite veinlets; no quartz veining; no visible sulfides.</p>
165.20	166.00	<p>Limonitic Biotite Monzonite C3 Biotitic monzonite; otherwise as 163.5 - 165.2m.</p>
166.00	169.00	<p>Limonitic Altered Biotite Monzonite C3 Monzonite, as 163.5 - 165.2m; former biotite coated with manganese oxide; intense argillic alteration; intensely calcareous; rare calcite veinlet fragments; rare fragments with intense pervasive hematitic staining; incompetent fragments are often easily destroyed; shear/fracture?; no quartz; no visible sulfides. Intensely sericitic and granular-looking nearest lower contact.</p>
169.00	172.00	<p>Limonitic Altered Biotite Monzonite C3 Greyish orange biotite monzonite; biotite and matrix feldspar show strong sericitization; all surfaces coated with sericitic, calcareous powder; biotite>hornblende usually altered but frequently coated with manganese oxide; original textures are discernible but smoothed; intensely calcareous; no quartz; no sulfides; transitional contacts.</p>
172.00	184.00	<p>Biotite Monzonite 90:10 Limonitic Biotite Monzonite C3 Sk Grey to palest orange biotite monzonite; <40% fesh black to weakly sericitized biotite; original textures are very well preserved; intensely calcareous matrix; ubiquitous calcite veinlet fragments; no quartz veinlets; no sulfides. <10% fragments with strong pervasive hematitic/limonitic staining - likely as envelopes adjacent to small fracture; strong to intense sericitization locally. 180.0 - 182.0m: Moderate pervasive limonitic/hematitic staining; rare weakly oxidized chips <1/cm of massive pyrite. Intensely sericitic near lower contact.</p>
184.00	191.00	<p>Siltstone (Earn Group) C3 Medium to dark grey siltstone; extremely calcareous; siliceous to waxy (limestone-like locally) appearance; rare sub-mm calcite veinlets; <1% limonite stained fragments; <1% massive pyrite fragments <2mm.</p>
191.00	194.50	<p>Siltstone (Earn Group) C3 Ft Grey clay containing mm-size siltstone fragments (as 184.0 - 191.0m).</p>

From	To	Geological Log
194.50	206.00	Siltstone (Earn Group) C2 Siltstone, as 184.0 - 191.0m; rare sandstone horizons; weak argillic alteration; no limonite; very rare fresh pyrite. 200.0 - 202.0m: Several 1-2mm milky quartz veinlet fragments.

*** END OF HOLE *** 206.00

HOLE NO: RC97-1998	SECTION: 18984	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	16672.20mN	18984.59mE	907.06RL
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Pre-collar depth: Final depth: 176.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	65.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	OVERBURDEN
4.00	13.00	LIMONITIC ALTERED QUARTZ MONZONITE
13.00	15.00	LIMONITIC BIOTITE MONZONITE
15.00	18.50	LIMONITIC ALTERED BIOTITE MONZONITE
18.50	22.50	LIMONITIC BIOTITE MONZONITE
22.50	22.90	LIMONITIC ALTERED BIOTITE MONZONITE
22.90	35.00	LIMONITIC BIOTITE MONZONITE
35.00	39.90	LIMONITIC ALTERED BIOTITE MONZONITE
39.90	42.20	LIMONITIC BIOTITE MONZONITE
42.20	46.00	LIMONITIC ALTERED SYENITE
46.00	48.00	LIMONITIC ALTERED SYENITE
48.00	49.90	LIMONITIC ALTERED BIOTITE MONZONITE
49.90	52.20	LIMONITIC BIOTITE MONZONITE
52.20	60.00	LIMONITIC ALTERED BIOTITE MONZONITE
60.00	62.00	LIMONITIC BIOTITE MONZONITE
62.00	144.00	BIOTITE MONZONITE

Checked and signed: _____	Date: _____
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HOLE NO: RC97-1998

SECTION: 18984

GRID: MINE

144.00	160.00	ALTERED BIOTITE MONZONITE
160.00	176.00	SILTSTONE (EARN GROUP)
176.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	<p>Overburden =>LAQM C1 Overburden, as determined by drill site technician. Limonitic altered monzonite; very strong pervasive limonitic staining; weakly feldspar phyric; very strong sericitization of matrix creates micro-sucrosic texture; former biotite has altered beyond recognition; abundant manganese oxide coats many surfaces; trace, to 2% locally, dark red limonite flecks <1/10mm after former disseminated pyrite; hematitic skins on several planar surfaces suggest weathering but nothing strongly indicates this to be overburden; strongly resembles underlying rock.</p>
4.00	13.00	<p>Limonitic Altered Quartz Monzonite C1 S1 Sk TR Py P4 Rich dark orange monzonite with very strong, even pervasive limonitic staining; occasion surfaces with deeper, red hematitic patina and/or mm-scale stained envelopes; generally non-phyric; original textures are generally well preserved; abundant sericite on chip surfaces may be due to complete alteration of former biotite (pseudomorphs or original form is not recognizable) as well as sericitization of feldspar-rich matrix; splotchy manganese oxide is common; very, very weakly calcareous matrix; easily destroyed where alterations are most intense. Several chips (<10%) show vitreous lustre and appear silicified; several angular, sub-cm quartz veinlets with moderate hematitic and limonitic pervasive staining, which appear to be veinlet fragments; very, very rare clear hairline quartz stringers. Trace former pyrite <1/10mm has altered completely to dark red limonite; sulfide content may have been higher, but evidence (eq. Limonite pseudomorphs) has been overprinted or destroyed. Note: This unit might be called 'biotites monzonite due to its location, but unit more strongly resembles Reserve Trend 'quartzs monzonite. 8.0 - 12.0: Very strong hematitic staining; intense sericitization locally; ubiquitous manganese oxide; becomes more equigranular.</p>
13.00	15.00	<p>Limonitic Biotite Monzonite Very dark orange to reddish orange monzonite with >10% fresh black to partially altered biotite; non-calcareous; generally equigranular; sub-cubic, orange-stained, translucent feldspar crystals resemble quartz locally; strong patchy sericitization of modal feldspar; no silicification; very, very rare sub-mm cloudy quartz veinlets; oxidized sulfides are extremely rare.</p>
15.00	18.50	<p>Limonitic Altered Biotite Monzonite Rich, dark, reddish orange monzonite; feldspar-rich, equigranular matrix; former biotite as completely limonitic, sericitized shreds and less commonly as partially altered to manganese oxide coated irregular crystals; sericite coats surfaces but unit shows pearly lustre; clear feldspar crystals resemble quartz locally; trace sub-mm clear and cloudy quartz veinlets and stringers; very rare completely oxidized disseminated pyrite.</p>
18.50	22.50	<p>Limonitic Biotite Monzonite Dark, greyish orange, equigranular feldspar-rich monzonite with <10% fresh and variably altered (limonite, sericite) biotite; pearly feldspar crystals which occasionally show twinning; several surfaces show intense sericitization, occasionally accompanied by minor manganese oxide; much sericite is due to alteration of former biotite; very rare oxidized disseminated pyrite <1/10mm; not calcareous; no quartz veining.</p>
22.50	22.90	<p>Limonitic Altered Biotite Monzonite S1 Sk Reddish orange intrusive, as 15.0 - 18.5m; resembles Main Trend "quartz" monzonite rather than Classic "biotite" monzonite, except for pearly, well formed appearance of feldspar crystals; very strong sericitization locally; former biotite altered beyond recognition and often coated with irregular manganese oxide; non-calcareous. Very rare oxidized disseminated pyrite <1/10mm. Rare smoky quartz fragments <1cm with manganese oxide on planar surfaces/selvages - likely represents quartz veining but not necessarily stockwork. 28.0 - 30.0m: Abundant, ubiquitous manganese oxide. Transitional into:</p>

From	To	Geological Log
22.90	35.00	<p>Limonitic Biotite Monzonite</p> <p>Rich, orange-red biotite monzonite, as 13.0 - 15.0m; >10% fresh black to completely sericitized, limonitic biotite; excellent, well formed, pearly, equigranular feldspar crystals; no quartz veining; non-calcareous; very rare oxidized sulfides. 32.0 - 34.0m: <50% fragments lack pervasive limonitic staining.</p>
35.00	39.90	<p>Limonitic Altered Biotite Monzonite</p> <p>Red-orange monzonite, as 22.5 - 29.9m; no veining; trace dark red disseminated limonite <1/10mm after pyrite; all chips coated with orange-stained sericitic masses which represent former biotite. Very strong to intense pervasive limonitic/hematitic staining.</p>
39.90	42.20	<p>Limonitic Biotite Monzonite</p> <p>As 35.0 - 39.9m, but with significant biotite as fresh black crystals, silvery micaceous pseudomorphs and as barely recognizeable sericitic, limonitic masses; former biotite is often coated with manganese oxide; non-calcareous; no quartz veining; very rare oxidized sulfides.</p>
42.20	46.00	<p>Limonitic Altered Syenite</p> <p>Bright orange to orange red intrusive (syenite?) with strong pervasive limonitic staining throughout equigranular feldspar-rich unit; weak patchy sericitization; no mafics or evidence of altered mafics; sub-vitreous lustre; trace disseminated dark red limonite flecks <1/10mm after pyrite; non-calcareous; no quartz veining.</p>
46.00	48.00	<p>Limonitic Altered Syenite C3 Ft</p> <p>Feldspar-rich intrusive as 42.2 - 46.0m; intense argillic alteration represented by abundant clay; possibly represents fault/shear; very strongly calcareous; chips in clay are strongly sericitized and show manganese oxide and hematitic staining; sulfides are not seen.</p>
48.00	49.90	<p>Limonitic Altered Biotite Monzonite C3</p> <p>Dark orange monzonite with strong, even pervasive limonitic staining; all chip surfaces coated with fine orange sericite and carbonate which represents former, completely altered biotite; very strongly calcareous; no quartz veining; rare oxidized pyrite; otherwise, much as all similar units described so far. Transitional into:</p>
49.90	52.20	<p>Limonitic Biotite Monzonite C3</p> <p>Greyish-orange feldspar-rich intrusive as 18.5 - 22.5m; good pearly lustre; contains >5% biotite as fresh black books, as corroded, partially oxidized and/or sericitized crystals and as completely oxidized, sericitic masses which adhere to chip surfaces; intensely calcareous; no secondary quartz; no sulfides.</p>
52.20	60.00	<p>Limonitic Altered Biotite Monzonite C3</p> <p>Dark orange monzonite as 49.9 - 52.2 (and similar to all other intervals); surfaces coated with orange-stained sericite as alteration of modal feldspar, but mostly after former biotite; intensely calcareous; no secondary quartz; no sulfides; ubiquitous manganese oxide coats former biotite. From 56.0m: Sericitization and hematitic/limonitic intensity increases; rare fine completely oxidized pyrite.</p>
60.00	62.00	<p>Limonitic Biotite Monzonite ->BM C3</p> <p>Transitional phase where orange stained biotitic monzonite becomes unstained; intense sericitization of modal feldspar creates granular, recrystallized appearance; black biotite remains fresh to partially altered; no secondary quartz; no visible sulfides; intensely calcareous.</p>
62.00	144.00	<p>Biotite Monzonite C3</p> <p>Dark grey, extremely biotitic (<40% locally) monzonite; pearly lustre and well formed feldspar crystals where biotite is fresh and black; intense sericitization (with carbonate) on some chips, associated with advanced alteration of biotite; intensely calcareous; <10% dark red/orange staining represents oxidation and staining along fractures; rare clear quartz eyes; no</p>

From	To	Geological Log
		<p>quartz veining; very, very rare ultra fine fresh pyrite (?) which seems to replace former biotite locally.</p> <p>From 72.0m: Limonitic staining is less common - rare from 84.0m and less strong; intense sericitization; occasional opaque, white calcite fragments <2mm.</p> <p>82.0 - 84.0m: 25% with pervasive limonitic staining.</p> <p>96.0 - 106.0m: Moderate white mm-scale calcite stockwork; reaction to HCl creates intense smelly bubbling; matrix is more intensely calcareous.</p> <p>120.0 - 126.0m: Weak, reddish pervasive limonitic staining; intensely sericitic.</p> <p>128.0 - 144.0m: Distinct earthy greenish hue; micro sucrosic texture; intense sericite; biotite shows intense alteration locally, but much still remains fresh and black; locally as borderline phase between "altered" and "unaltered" intrusive, especially from 144.0m.</p>
144.00	160.00	<p>Altered Biotite Monzonite ->BM C3</p> <p>Green-grey, intensely calcareous, biotitic, sericitic monzonite as 62.0 - 144.0m; abundant biotite has altered to black shreds and silvery sericitic masses; trace ultra fine pyrite appears to replace some former biotite; <10% white calcite crystals and fragments <1/2cm (148.0 - 150.0m); intensely calcareous - violent reaction to HCl creates foul smelling gas.</p> <p>May contain <50% fragments containing fresh black biotite; very difficult to determine boundaries.</p> <p>154.0 - 156.0m: Lighter green.</p> <p>From 156.0m: All original textures are destroyed - unit has homogeneous, intensely altered appearance; possibly siltstone??</p> <p>Lower contact is difficult to determine as changes are transitional.</p>
160.00	176.00	<p>Siltstone (Earn Group) C1</p> <p>Dark grey siltstone; weakly calcareous matrix; block, angular fragments; sericite on many surfaces; trace fresh yellow pyrite as clusters and sub-cm horizons; ultra fine pyrite also as localized disseminations; subtle, very rare cloudy sub-mm quartz veinlets from 170.0m.</p>

*** END OF HOLE *** 176.00

HOLE NO: RC97-1999

SECTION: 19053

GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED 16716.55mN 19033.42mE 901.36RL

Pre-collar depth: Final depth: 110.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	65.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	OVERBURDEN
4.00	15.00	LIMONITIC BIOTITE MONZONITE
15.00	18.50	LIMONITIC ALTERED BIOTITE MONZONITE
18.50	20.20	LIMONITIC BIOTITE MONZONITE
20.20	24.00	LIMONITIC ALTERED BIOTITE MONZONITE
24.00	28.00	LIMONITIC ALTERED SYENITE
28.00	32.00	LIMONITIC BIOTITE MONZONITE
32.00	72.00	BIOTITE MONZONITE
72.00	76.00	LIMONITIC ALTERED BIOTITE MONZONITE
76.00	82.00	LIMONITIC ALTERED BIOTITE MONZONITE
82.00	88.50	BIOTITE MONZONITE
88.50	91.50	LIMONITIC BIOTITE MONZONITE
91.50	93.40	GRAPHITIC ARGILLITE
93.40	94.10	LIMONITIC ALTERED BIOTITE MONZONITE
94.10	98.50	GRAPHITIC SILTSTONE
98.50	103.00	LIMESTONE
103.00	110.00	GRAPHITIC SILTSTONE
110.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	Overburden =>LBM Overburden, as determined by drill site technician; 0.0 - 2.0m: no sample. Limonitic intrusive, as described below; note: there are no indicators of overburden - unit is exactly the same as seen below.
4.00	15.00	Limonitic Biotite Monzonite Dark orange monzonite with moderate to strong pervasive limonitic staining; <10% fresh to slightly altered biotite, which is frequently coated with manganese oxide; excellent pearly lustre due to well formed translucent feldspar crystals in which twinning is often observed; sericite on chip surfaces where biotite has completely altered and where modal feldspar is weakly altered; non-phyric; no sulfides; no quartz veining except for very, very rare clear hairline stringers. 8.0 - 12.0m: Biotite shows strong alteration, especially to limonitic, sericitic masses; abundant manganese oxide; abundant clay in 'washed sample'. 10.0 - 12.0m: 5% dark grey siltstone. 12.0 - 14.0m: <50% chips lack limonitic staining.
15.00	18.50	Limonitic Altered Biotite Monzonite ->LBM Very dark reddish orange-brown biotite monzonite in which most biotite has altered to sericitic masses and is frequently coated with manganese oxide; unit has dirty, felted to sucrosic appearance; darker hue is due to abundant manganese oxide; original textures are well preserved although pearly lustre is decreased due to alterations; <5% chips with minor fresh black biotite; no quartz veining; no sulfides.
18.50	20.20	Limonitic Biotite Monzonite As 15.0 - 18.5m, but most biotite remains fresh and black; intense limonitic and hematitic staining.
20.20	24.00	Limonitic Altered Biotite Monzonite ->LBM As 15.0 - 18.5m; intense staining; minor biotite remains fresh.
24.00	28.00	Limonitic Altered Syenite C3 Bright orange feldspar-rich intrusive (syenite?) with intense, even, pervasive limonitic staining; excellent pearly to sub-vitreous, sub-translucent matrix; <2% mafics - consisting mostly of fresh to completely oxidized biotite; rare, ultra fine dark red limonite flecks <1/10mm after former pyrite; unit is visually distinct from adjacent units; intensely calcareous.
28.00	32.00	Limonitic Biotite Monzonite C3 Dark greyish orange biotite monzonite; >10% fresh black biotite, some of which has altered to powdery sericitic masses associated with carbonate; original textures and features are quite well preserved; intensely calcareous; no secondary quartz; no sulfides. Transitional into:
32.00	72.00	Biotite Monzonite C3 Greyish biotite monzonite with <10% (higher locally) limonitic/hematitic staining as envelopes along fracture surfaces; >20% fresh black biotite - locally sericitized; feldspar-rich matrix is usually fresh and pearly but also strongly sericite altered locally; intensely calcareous matrix; rare opaque calcite veinlet fragments <1cm; no secondary quartz; no sulfides. 34.0 - 36.0m: Moderate pervasive limonitic staining throughout. 40.0 - 44.0m: <50% fragments with intense hematitic staining; overall reddish hue. From 44.0m: Strongly speckled light and dark; feldspar crystals are clear; <50% fresh black biotite; distinct blueish hue; oxidation/stained envelopes still occur along fractures. From 56.0m: Intense sericitization and/or argillic alteration locally; faint green earthy appearance locally; limonitic staining along fractures persists.

From	To	Geological Log
72.00	76.00	<p>Limonitic Altered Biotite Monzonite C3 S1 Sk Very dark greyish red monzonite; fine sericite coats most surfaces but pearly lustre of feldspar is still observed; all former biotite has altered to yellow and pale orange sericite; rare fresh black biotite; unit has felted, dirty appearance; intensely calcareous; rare calcite veinlets; no secondary quartz; no sulfides. Increasingly translucent feldspar crystals - several resemble quartz.</p>
76.00	82.00	<p>Limonitic Altered Biotite Monzonite C3 S3 Sk Intrusive as 72.0 - 76.0m; <25% cloudy to smoky, angular quartz veinlet fragments <1cm which contain rare tiny (<1/10mm) limonite flecks and very weak localized pervasive staining. <5% pyrite locally as moderately oxidized (tarnish to limonitic coating) clots of pyritohedra and massive chips <1/2cm.</p>
82.00	88.50	<p>Biotite Monzonite C3 Felted to sucrosic, teal blue, often opaque biotite monzonite; most biotite fresh to sericitized; feldspar-rich matrix coated with sericite and carbonate; intensely calcareous; several calcite veinlet fragments <2mm; soft, easily destroyed fragments.</p>
88.50	91.50	<p>Limonitic Biotite Monzonite C3 Very dark orange, intensely altered, calcareous biotite monzonite; most biotite remains fresh but rest shows varying degrees of alteration; sucrosic appearance; intensely altered chips can be crushed with pressure from fingernail.</p>
91.50	93.40	<p>Graphitic Argillite S2 C3 Sk Dark grey, silty graphitic argillite with intensely calcareous matrix and strong quartz and quartz-calcite stockwork; no sulfides.</p>
93.40	94.10	<p>Limonitic Altered Biotite Monzonite C3 Intensely altered monzonite, as 88.5 - 91.5m.</p>
94.10	98.50	<p>Graphitic siltstone C3 Sk Moderately graphitic siltstone; intensely calcareous matrix is sometimes marbled with calcite, very minor quartz and is cut by very strong (<20%) calcite veining; fresh yellow pyrite observed on many planar surfaces.</p>
98.50	103.00	<p>Limestone C3 Sk Grey, soft and waxy looking (possibly baritic (I can't estimate the weight)) with very strong to intense calcite stockwork; unit has white and grey mottled appearance which is reminiscent of intrusive, but rock is too soft.</p>
103.00	110.00	<p>Graphitic siltstone ->LST S2 C3 Sk Dark grey, weakly graphitic, limey siltstone with intense calcite stockwork plus weaker quartz stockwork; intensely calcareous - violent reaction to HCl; increasingly graphitic; decreased calcite and quartz-calcite veining from 108.0m; hard, angular fragments.</p>

*** END OF HOLE *** 110.00

HOLE NO: RC97-2000	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 72.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	3.50	OVERBURDEN
3.50	12.00	LIMONITIC BIOTITE MONZONITE
12.00	16.00	LIMONITIC BIOTITE MONZONITE
16.00	18.00	SANDSTONE
18.00	29.00	BIOTITE MONZONITE
29.00	44.00	LIMONITIC ALTERED BIOTITE MONZONITE
44.00	46.00	LIMONITIC ALTERED BIOTITE MONZONITE
46.00	49.50	LIMONITIC ALTERED BIOTITE MONZONITE
49.50	54.00	LIMONITIC BIOTITE MONZONITE
54.00	57.50	LIMONITIC ALTERED BIOTITE MONZONITE
57.50	59.80	ARGILLITE
59.80	63.00	ALTERED BIOTITE MONZONITE
63.00	72.00	GRAPHITIC ARGILLITE
72.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	3.50	<p>Overburden =>LABM C2 TR Py P4 Overburden, as determined by drill site technician; 6.0m casing; poor recovery to 10.0m; slightly damp sample. Rich orange-brown limonitic altered biotite monzonite; intense pervasive limonitic staining; feldspar-rich matrix shows very strong to intense sericitization - often so strongly altered that chips can be destroyed with minor pressure; original textures overprinted but still recognizable; larger feldspar crystals show alteration to opaque, white, waxy clay; former biotite altered to limonitic shreds - rarely fresh and black; manganese oxide coats many former biotite crystals and several fractures. No quartz veining; weakly to moderately calcareous matrix. <1% dark red, sub-cubic flecks <1/4mm after former disseminated pyrite - some chips show greater concentrations of former sulfides. Strongly weathered; poorly washed sample.</p>
3.50	12.00	<p>Limonitic Biotite Monzonite Note: No 4.0 - 6.0m sample. Weathered, orange and black biotite with variable intense pervasive limonitic staining; 5-10% biotite ranges from fresh and black to corroded, oxidized and sericitized, and rarely completely destroyed; feldspar-rich matrix often shows intense sericitization and argillic alteration which alters chips to opaque, soft, recrystallized fragments; rare chips retain original crystal form, translucence and pearly lustre; abundant manganese oxide coatings on surfaces. Trace fine disseminated limonite after pyrite <1/4mm. No quartz; non-calcareous. 10.0 - 12.0m: Extremely poorly washed; large clay content as large clots in 'washed' sample. Lower contact defined based on carbonate content.</p>
12.00	16.00	<p>Limonitic Biotite Monzonite 50:50 Biotite Monzonite C3 Intermixed light grey and very dark orange biotite monzonite; equal quantities of stained and un-stained varieties, but ratios vary from sample to sample. 10-30% fresh black biotite intermixed with minor quantities of hornblende; biotite books are generally <1mm and imbedded in rock, but rare liberated books <7mm are observed; hornblende crystals are well formed and are usually larger than biotite crystals. Unstained rock has good crystal form and retains excellent pearly lustre; portions of rock with staining show intense sericitization and rock doesn't retain original textures - surfaces often show stronger hematization, increased biotite alteration and spotty manganese oxide.</p>
16.00	18.00	<p>Sandstone ->SLT Fine-grained, equigranular sandstone to siltstone; hard, angular fragments; feldspar fragments show argillic alteration; very weak, localized pervasive limonitic staining; most surfaces with significant limonitic coating; no quartz veinlets; no sulfides; non-calcareous.</p>
18.00	29.00	<p>Biotite Monzonite ->LBM C3 Sk Greyish biotite monzonite with >10% black to slightly altered biotite; pearly fresh to felted, sericitized matrix; intensely calcareous - violent, instantaneous reaction to HCl; calcite fragments <5mm, locally numerous and faintly orange stained are likely veinlet fragments; original textures are very, very well preserved; no quartz veining; no sulfides; gradational transition into weakly to moderately pervasively limonitic unit; increasingly sericite altered matrix. 26.0 - 28.0m: <20% waxy feldspar-calcite chips <1.2cm with excellent crystal form, dendritic spotting on some surfaces and strong limonitic staining along individual crystal boundaries; intensely calcareous.</p>
29.00	44.00	<p>Limonitic Altered Biotite Monzonite C3 Sk Dark orange-brown monzonite; very strong, even, pervasive limonitic staining; feldspar-rich matrix shows very strong sericitization and is intensely calcareous; feldspars do retain good crystal shape and original pearly lustre is locally discernible; no modl quartz; biotite altered to limonitic, sericitic masses and is rarely seen as near fresh, dark brown crystals with corroded edges and/or cores; biotite remnants are also frequently coated with manganese oxide; sericitic, often hematitic skins are associated with manganese oxide spotting commonly seen on</p>

From	To	Geological Log
		planar surfaces. <<1% dark red flecks of limonite <1/5mm, occasionally coated with manganese oxide, as complete replacement of former disseminated pyrite; trace un-oxidized pyritic clusters <1/2cm. No quartz veining; calcite veining evidenced by sub-cm and mm-scale clear and creamy, often orange stained, calcite fragments; intensely calcareous matrix as well. 40.0 - 44.0m: Biotite fragments better preserved and limonitic staining is less intense.
44.00	46.00	Limonitic Altered Biotite Monzonite CS S3 Sk Intensely limonite stained, sericite and argillically altered monzonite, much as 29.0 - 44.0m; fragments have lost original textures and have opaque, granular, intensely altered appearance; former biotite is usually coated with irregular spotty manganese oxide and is also often completely altered to limonitic sericite. Intensely calcareous matrix; white, opaque, soft calcite also as sub-mm veinlets and fragments; reaction to HCl is instantaneous and violent. Trace dark red flecks of disseminated limonite <1/5mm after former pyrite; mm-size ultra fine grained pyrite clusters appear to replace former biotite locally - in areas associated with strongest hematitic staining and sericitization. >30% angular, cloudy quartz fragments <1/2cm; minor calcite often attaches to quartz fragments; barren of sulfides.
46.00	49.50	Limonitic Altered Biotite Monzonite C3 Sk As 29.0 - 44.0m: intense limonitic staining, carbonate content, sericitization; trace disseminated completely oxidized pyrite; calcite veining; no quartz.
49.50	54.00	Limonitic Biotite Monzonite 90:10 Biotite Monzonite C3 Sk Dark orange, intensely calcareous, sericitized and otherwise altered biotite monzonite as 3.5 - 12.0m and units directly above; contains <10% fresh black biotite which may have corroded edges. Incompetent, intensely altered, granular and recrystallized-looking chips are easily crushed with pressure from fingernail; original textures, although blurred, are easily discernible. Intensely calcareous matrix; strong to moderate mm-scale calcite stockwork. No quartz veining. Trace disseminated pyrite after pyrite <1/4mm. >10% unoxidized fragments - ratio of unoxidized to oxidized fragments increases to bottom of interval.
54.00	57.50	Limonitic Altered Biotite Monzonite 90:10 Limonitic Altered Biotite Monzonite C3 Sk As 49.5 - 54.0m, but biotite is completely altered; abundant manganese oxide, replacing/coating former biotite; intensely altered.
57.50	59.80	Argillite C3 Sk Dark grey, silty, non-graphitic argillite with intense milky calcite stockwork; <50% interval consists of calcite veinlets and veinlet fragments <1cm; weak limonitic staining on some fractures.
59.80	63.00	Altered Biotite Monzonite C3 Note: No sample 60.0 - 62.0m: contact assigned bases on technician's log. Intensely altered (sericite, clay and carbonate), greenish grey to pale orange monzonite; much as 54.0 - 57.5m, but without pervasive limonitic staining; no quartz; no quartz or calcite veining; very dirty, incompetent chips with fine, felted appearance through which original textures are faintly discernible.

From	To	Geological Log
63.00	72.00	Graphitic Argillite C3 Gr Black, siliceous, very strong to increasing graphitic cherty argillite; rock breaks with conchoidal fracture into hard, angular fragments wit sharp edges; excellent graphite crystals observed on most surfaces; weak mm-scale quartz and calcite veining; intensely calcareous matrix; trace intrusive fragments; rare limonitic surface locally; no sulfides.

*** END OF HOLE *** 72.00

HOLE NO: RC97-2001	SECTION: 19031	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	16577.06mN	19032.39mE	889.88RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 196.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	65.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	OVERBURDEN
2.00	5.00	LIMONITIC BIOTITE MONZONITE
5.00	20.00	BIOTITE MONZONITE
20.00	34.00	BIOTITE MONZONITE
34.00	60.00	LIMONITIC ALTERED MONZONITE
60.00	71.90	LIMONITIC ALTERED BIOTITE MONZONITE
71.90	78.50	LIMONITIC SYENITE
78.50	84.00	LIMONITIC ALTERED SYENITE
84.00	106.00	BIOTITE MONZONITE
106.00	108.20	LIMONITIC ALTERED SYENITE
108.20	111.00	BIOTITE MONZONITE
111.00	113.20	LIMONITIC ALTERED SYENITE
113.20	115.00	BIOTITE MONZONITE
115.00	135.00	SYENITE
135.00	154.00	ALTERED BIOTITE MONZONITE
154.00	165.00	BIOTITE MONZONITE
165.00	176.00	ALTERED BIOTITE MONZONITE
176.00	196.00	SILTSTONE (EARN GROUP)
196.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Overburden Overburden, as determined by drill site technician; no sample.
2.00	5.00	Limonitic Biotite Monzonite Medium greyish orange biotite monzonite; variable pervasive limonitic staining; most original textures are very well preserved; fine grained, equigranular matrix shows excellent crystal form, translucence and pearly lustre; non-calcareous; no quartz veining; no silfides. >10% fesh black biotie, often with sericitized rims and very occasionally coated with manganese oxide; interval also conatins several hornblende crystals which show very weak localized chloritization. <25% chips with intense pervasive sercite and argillic alteration and limonitic staining.
5.00	20.00	Biotite Monzonite Greyish biotitic monzonite; some modal feldspar has faint pinkish hue; >30% biotite with lesser hornblende; biotite as fresh black crystals to variabley, faintly greenish sercite; some hornblende appears to be replaced with biotite; original textures are very well preserved; rare hematite-stained, sheared-looking fragments may indiate envelopes around small shears/fracture; increasing sercite alteration with depth.
20.00	34.00	Biotite Monzonite C3 Biotite monzonite (to hornblende syenite), as 5.0 - 20.0m; very stronlgy calcareous matrix; rare calcite fragments; no quartz veinlets; no sulfides; sharp lower conatct. 27.0 - 30.5m: Weak to moderate pervasive limonitic staining; mafics partially altered to hematite and occasionally coated with manganese oxide.
34.00	60.00	Limonitic Altered Monzonite Rich deep orange feldspar-rich intrusive (monzonite? - see description of similar unit in RC97-2002); intense, even, pervasive limonitic staining; intense pervasive argillic alteration and sericitization has obliterated most original textutes and features creating opaque, waxy to earthy, felted to sucrosic-looking unit; orange-stained sercite coats all chip surfaces; all mafin minerals absent or destroyed; splotchy and dendritic manganese oxide on several surfaces; uniform, homogeneous appearance; non-calcareous; no quartz or calcite veining; no discernible sulfides; unit is very visually distinct from adjacent units. From 40.0m: Competence improves; original textures are recognizeable. From 56.0m: Recovery of coarse materal decreases to lower contact; intense alterations.
60.00	71.90	Limonitic Altered Biotite Monzonite C3 Intensely limonitic, altered monzonite, as 34.0 - 60.0m; dark red-black former mafics (hornblende and biotite) are also seen with manganese oxide coating; other biotite shows alteration to greenish grey sercitic forms and pseudomorphs; abundant manganese oxide throughout, combined with intense sercitzation causes dirty appearance; incompetent; recovery of larger fragments decreases through interval; biotite is fresh and black locally. Intensely calcareous matrix; occasional sub-mm calcite veinlets. No quartz veining; no discernible silfides. 66.0 - 68.0m: Much biotite remains fresh.
71.90	78.50	Limonitic syenite C3 S1 Sb Grey-orange to increasingly bright orange hornblendic syenite; original textures excellently preserved; rare clear to weakly stained quartz fragments; intensely calcareous; mafic minerals fresh to variably altered; very rare kermesitic stibnite fragments <4mm.
78.50	84.00	Limonitic Altered Syenite C3 S2 Rich, deep orange syenite; excellent textures; intensely calcareous; patchy sericitization; all mafics absent or destroyed; excellent pearly to sub-vitreous lustre. >5% clear to smoky, rarely hematite-stained, quartz fragments <4mm; sulfides are not discernible. Sharp lower contact.

From	To	Geological Log
84.00	106.00	<p>Biotite Monzonite C3 Greyish biotite monzonite; abundant (<50%) black biotite <1mm; unit has fine speckled appearance; similar to 20.0 - 34.0m; unit also contains significant hornblende; excellent textures; finer grain size than seen uphole; intensely calcareous; calcite veinlet fragments <1cm; entire rock becoming sericitized with depth; no quartz; no sulfides. <10% chips with strong pervasive limonitic staining to 102.0m. From 102.0m: Intensely biotitic; several milky calcite veinlet fragments <1mm; very rare limonite; very fresh looking.</p>
106.00	108.20	<p>Limonitic Altered Syenite C3 S1 Sb Limonitic syenite as 71.9 - 78.5m and 78.5 - 84.0m; few remaining mafics are variably altered; occasional quartz veinlets; rare stibnite fragments <2mm; trace fresh, disseminated pyrite with pitted corroded surfaces.</p>
108.20	111.00	<p>Biotite Monzonite C3 Biotite monzonite, as 84.0 - 106.0m; biotite crystals are larger and slightly more strongly altered.</p>
111.00	113.20	<p>Limonitic Altered Syenite C3 Sk As 106.0 - 108.2m; numerous white calcite veinlet fragments <2mm; no quartz; no sulfides.</p>
113.20	115.00	<p>Biotite Monzonite C3 Biotite monzonite, as 108.2 - 110.0m; decreased mafic content; increased alterations.</p>
115.00	135.00	<p>Syenite ->BM C3 Hornblende-biotite syenite, as 110.0 - 113.2m, but with moderate pervasive limonitic staining; strongly hornblendic also; intensely calcareous; several calcite veinlets; no quartz; no sulfides. Concentrations of hornblende versus biotite vary - in several occurrence biotite seems primary and in other instances biotite appears to replace hornblende; regardless, this is a feldspar-rich intrusive with decreasingly strong pervasive limonitic staining. From 126.0m: Original textures improve. Sharp lower contact.</p>
135.00	154.00	<p>Altered Biotite Monzonite C3 Darkest blue-grey monzonite; abundant biotite altered to sericite which coats all chip surfaces; rare fresh black biotite crystals are occasionally observed; fine grained homogeneous appearance throughout; fine grained equigranular; very little variation throughout; intensely calcareous matrix with weak milky calcite veining; no quartz veining; no sulfides; no limonite.</p>
154.00	165.00	<p>Biotite Monzonite C3 Biotite monzonite, as above; most biotite remains fresh and black; overall increase in grain size; unwashed sample has brownish soil-like appearance; rare fresh yellow pyrite as fine grained clusters <3mm.</p>
165.00	176.00	<p>Altered Biotite Monzonite C3 As 135.0 - 154.0m; very dark black; biotite is variably altered; transitional phase; trace yellow pyrite as described above; very fine grained.</p>
176.00	196.00	<p>Siltstone (Eam Group) C3 1% Py P0 Medium-grey to mottled grey, siliceous, intensely calcareous siltstone; local argillic alteration; weak calcite veining; rare clear quartz veinlet fragments contain ultra fine (<1/10mm) silvery, cubic sulfide crystals; <1% massive yellow pyrite chips <3mm of diagenetic origin; powdery coating on all chip surfaces.</p>

*** END OF HOLE *** 196.00

HOLE NO: RC97-2002	SECTION: 19149	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	16473.12mN	19149.74mE	859.89RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 124.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	65.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	OVERBURDEN
2.00	22.00	SYENITE
22.00	45.00	ALTERED SYENITE
45.00	51.00	ALTERED BIOTITE MONZONITE
51.00	52.50	LIMONITIC ALTERED BIOTITE MONZONITE
52.50	57.00	BIOTITE MONZONITE
57.00	60.00	ALTERED BIOTITE MONZONITE
60.00	68.70	LIMONITIC ALTERED MONZONITE
68.70	71.90	BIOTITE MONZONITE
71.90	72.40	LIMONITIC ALTERED MONZONITE
72.40	75.80	BIOTITE MONZONITE
75.80	76.10	LIMONITIC ALTERED MONZONITE
76.10	79.00	BIOTITE MONZONITE
79.00	80.00	LIMONITIC BIOTITE MONZONITE
80.00	91.00	BIOTITE MONZONITE
91.00	93.00	LIMONITIC ALTERED MONZONITE
93.00	99.50	SILTSTONE (EARN GROUP)
99.50	104.00	SILTSTONE (EARN GROUP)
104.00	106.10	GRAPHITIC ARGILLITE
106.10	109.80	SILTSTONE (EARN GROUP)
109.80	111.90	GRAPHITIC SILTSTONE
111.90	113.40	SILTSTONE (EARN GROUP)
113.40	124.00	GRAPHITIC SILTSTONE

Checked and signed: _____	Date: _____
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HOLE NO: RC97-2002

SECTION: 19149

GRID: MINE

124.00

END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.00	Overburden ->LSY Possible overburden; contains minor organic material; doesn't differ strongly from adjacent rock except for stronger staining. Syenitic rock with moderate pervasive limonitic staining; <10% hornblende and biotite; excellent original textures; non-calcareous; no quartz; no sulfides.
2.00	22.00	Syenite ->ASY Greyish syenite iwth very weak pervasive limonitic staining locally; <20% fresh to weakly altered mafics; black hornblende, generally better preserved, may show weak alteration to fine micaceous material and frequently appears to be replaced with biotite; biotite is usually fresh and black, often with sericitized rims. Translucent to sub-translucent, pearly feldspar crystals retain excellent crystal form. No quartz veining; locally very weakly calcareous; very, very rare oxidized pyrite <1/10mm. 8.0 - 10.0m: Dirty-looking, micaceous chips; very biotitic, much of which appears to be secondary after hornblende. From 10.0m: Matrix is more opaque and unit has strong speckled appearance due to abundance of well-formed hornblende crystals which appear aligned locally. <5% chips with pervasive limonitic staining - likely due to staining/oxidation envelopes adjacent to fractures.
22.00	45.00	Altered Syenite ->SY C3 Hornblendic syenite, as 2.0 - 22.0m, but with intensely calcareous matrix; minor biotite and hornblende altered to mica; opaque feldspar-rich matrix has very slightly sucrosic texture; greenish sericitic material forms thin coating on most chip surfaces; rare clear sparry calcite veinlets <2mm; original textures remian extrememly well preserved; rare hematitic surfaces; no quartz veining; no sulfides. 44.0 - 46.0m: Trace ultra fine yellow pyrite appears to replace former hornblende.
45.00	51.00	Altered Biotite Monzonite ->ASY Very dark blue-grey feldspar-rich intrusive; very fine grained and original textures are somewhat obscured; chip surfaces coated with dark grey, white powdery remnants of former mafics; note: I don't know if I should classify this as monzonite or syenite...It belongs somewhere in that range. <5% fragments with pervasive limonitic staining - <50% in occasional sample intervals; several planar surfaces with limonitic patina. Intensely calcareous; no quartz veinlets; <1% fresh disseminated yellow pyrite as fine grained clusters <1mm.
51.00	52.50	Limonitic Altered Biotite Monzonite ->LAS Y C3 As 45.0 - 51.0m, but with intense sericitization and pervasive limonitic staining.
52.50	57.00	Biotite Monzonite C3 As 45.0 - 51.0m; intensely sericitized; incompetent chips can be crushed with pressure from fingernail; much fine biotite remains fresh and black.
57.00	60.00	Altered Biotite Monzonite ->>SLT C3 Dark khaki to grey-broen, fine grained, eguigranular, homogeneous monzonite (??); strongly resembles siltstone locally but rare biotite crystals are seen and dry chips more strongly resemble intrusive rock; several chips have developed opaque, waxy appearance which seems to dispaly sheared textures; original textures are very poorly preserved; intensely altered rock! No quartz veining; very rare calcite veinlet fragments; intensely calcareous matrix; no sulfides; sharp lower contact.
60.00	68.70	Limonitic Altered Monzonite C3 TR Py P4 Rich dark orange feldspar-rich intrusive (arbitrarily assigned monzonite) with intense, even pervasive limonitic staining; original textures are locally discernible but not well preserved or represented; intense alterations (clay, sericite, limonite) have created opaque, sucrosic, waxy, soft and incompetent, uniform fragments with surfaces which are commonly coated with

From	To	Geological Log
		<p>manganese oxide; fresh mafic minerals are not seen; former biotite is very rarely represented by silvery, imperfect sericitic pseudomorphs or are coated with irregular manganese oxide; very strongly calcareous; no quartz veining; very, very rare oxidized pyrite as sub-rounded limonite flecks <1/10mm.</p> <p>From 62.0m: >40% chips lack limonitic staining and are completely devoid of all features and textures; very rare cloudy quartz fragments <4mm in which small stibnite crystals are occasionally observed.</p> <p>From 66.0m: Appears more syentic; small (1-2mm) black hornblende and biotite crystals, fresh to partially altered and very often coated with manganese oxide; several biotite crystals appear to be replaced by clusters of ultra fine (<<1/10mm) fresh pyrite (with silvery stibnite-like colouration).</p> <p>Sharp contacts.</p>
68.70	71.90	<p>Biotite Monzonite 5% Py P0 C3</p> <p>Very dark greenish grey to black monzonite; >50% fresh black biotite, as fresh crystals, partially altered masses and fine sericite; very fine grained equigranular textures, unlike typical unit, but still distinctly intrusive; calcareous matrix, occasional (<1%) clear quartz fragments.</p> <p>>5% pyrite locally as silver, yellow and very weakly oxidized sub-cm chips of ultra fine crystals; rare chips appear stibnitic; some patchy limonitic staining near lower contact - chips create dirty appearance.</p>
71.90	72.40	<p>Limonitic Altered Monzonite C3</p> <p>As 60.0 - 68.7m; intensely altered (clay, sericite, limonite); all original textures and features destroyed.</p>
72.40	75.80	<p>Biotite Monzonite C3</p> <p>Very dark, greenish grey biotite monzonite, as 68.7 - 71.9m; very strong to intense sericite and clay alteration; original textures better preserved; intensely calcareous matrix and rare milky calcite stringers; no quartz; very rare fresh pyrite.</p>
75.80	76.10	<p>Limonitic Altered Monzonite C3</p> <p>As 60.8 - 71.9m and 71.9 - 72.4m; very rare cloudy, angular quartz fragments <5mm with patchy limonitic staining.</p>
76.10	79.00	<p>Biotite Monzonite C3</p> <p>As 72.4 - 75.8m.</p>
79.00	80.00	<p>Limonitic Biotite Monzonite C3</p> <p>Medium orange to greyish orange biotitic monzonite; sub-vitreous to waxy lustre; original textures are well preserved; sub-translucent; calcareous; no quartz veining; no sulfides.</p>
80.00	91.00	<p>Biotite Monzonite C3</p> <p>Dark greenish grey biotite monzonite as 76.1 - 79.0m; moderate sericitization; intensely calcareous matrix; original textures well preserved; rarer calcite veining; no quartz veining; no sulfides; <10% fragments with variable limonitic staining,</p> <p>86.0 - 88.0m: >50% fragments with pervasive limonitic staining.</p> <p>Alterations increase to lower contact.</p>
91.00	93.00	<p>Limonitic Altered Monzonite C1</p> <p>Rich, deep orange monzonite, as 60.0 - 68.7m; soft, due to intense pervasive clay and sericite alteration and intense pervasive limonitic staining; original features and textures are completely destroyed; manganese oxide on some planar surfaces; no veining; no sulfides; earthy to waxy opaque appearance.</p>
93.00	99.50	<p>Siltstone (Earn Group) Lm</p> <p>Greyish orange, hard, fine grained, siliceous siltstone with weak to moderate pervasive limonitic staining; no veining; rare fresh pyrite; <25% intrusive fragments - possibly contamination in an extremely wet hole.</p>

From	To	Geological Log
99.50	104.00	Siltstone (Earn Group) C3 Dark grey to black, non-graphitic siltstone; strongly calcareous; rare fragments show complete alteration to teal-coloured mica; rare hematitic patina on planar surfaces; <10% intensely altered limonitic fragments are likely contamination in a wet hole.
104.00	106.10	Graphitic Argillite C3 Gr Graphitic argillite; hard, angular fragments; excellent oily graphitic sheen; strongly calcareous matrix; no quartz or calcite veining; rare fresh yellow pyrite clusters <1mm; <10% orange altered rock fragments are contamination from above.
106.10	109.80	Siltstone (Earn Group) C3 Medium grey to mottled grey, fine grained, equigranular siltstone; soft, bleached sucrosic appearance due to intense argillic alteration; very, very rare sub-mm clear quartz stringers which contain ultra fine sulfides; very strongly calcareous; trace fresh to oxidized cubic pyrite <1/4mm; <10% orange, altered unit as contamination.
109.80	111.90	Graphitic siltstone 2% Py P0 Gr Weakly graphitic siltstone; siliceous; trace to 3%, subtle, disseminated yellow pyrite <1/4mm; non- to very weakly calcareous.
111.90	113.40	Siltstone (Earn Group) C3 As 106.0 - 109.8m; mottled medium grey; possible intrusive???
113.40	124.00	Graphitic siltstone C3 Graphitic siltstone, as 109.8 - 111.9m; very strongly calcareous matrix; weak calcite veining; trace yellow pyrite filling sub-mm fractures. From 118.0m: Calcite marbling in matrix; increasingly oily graphitic lustre.

*** END OF HOLE *** 124.00

HOLE NO: RC97-2003	SECTION: 18898	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	16992.99mN	18896.89mE	920.16RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 112.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	100.00	-55.00

*** SUMMARY LOG ***

0.00	5.00	OVERBURDEN
5.00	17.00	LIMONITIC ALTERED SYENITE
17.00	18.50	LIMONITIC ALTERED SYENITE
18.50	23.90	LIMONITIC ALTERED SYENITE
23.90	38.00	LIMONITIC ALTERED SYENITE
38.00	42.00	LIMONITIC ALTERED SYENITE
42.00	46.50	LIMONITIC BIOTITE MONZONITE
46.50	65.00	LIMONITIC ALTERED SYENITE
65.00	69.50	LIMONITIC ALTERED SYENITE
69.50	99.00	BIOTITE MONZONITE
99.00	104.20	GRAPHITIC SILTSTONE
104.20	112.00	SILTSTONE (EARN GROUP)
112.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	5.00	<p>Overburden =>LASV C1 Overburden, as determined by drill site technician; some muddy clots, but otherwise resembles underlying rock; minor organic material. Hornblende syenite, as described below; very, very weakly calcareous; strongly oxidized with 10-20% fragments with intense pervasive alterations; no quartz; no sulfides.</p>
5.00	17.00	<p>Limonitic Altered Syenite Medium greyish orange syenite with <5% hornblende>biotite; mafic minerals show corrosion, oxidation and some sericitization - occasionally coated with manganese oxide; equigranular feldspar-rich matrix shows excellent crystal form, pearly lustre with translucence to sub-translucence; unit breaks along crystal boundaries; very weak sericitization locally; non-calcareous; no quartz veinlets; no sulfides. <5% fragments with intense limonite and sericite alteration - likely edge effects along fractures; all alterations intensify to lower contact.</p>
17.00	18.50	<p>Limonitic Altered Syenite Ft* Hornblende syenite, as above; intense pervasive argillic alteration; original textures are crudely preserved but unit is almost entirely clay; harder manganese oxide flecks represent former mafics; non-calcareous; non-calcareous; no quartz; no visible sulfides; likely represents shear.</p>
18.50	23.90	<p>Limonitic Altered Syenite Bright yellowish orange syenite with strong, but not intense, pervasive argillic alteration; abundant clay in sample; hard, translucent, pearly feldspar crystals remain as more resistant units; hematitic staining as sub-mm envelopes along fracture surfaces; all mafic minerals altered out and washed away; no quartz veinlets; no sulfides; non-calcareous. Alteration is still related to shearing at 17.0 -18.5m.</p>
23.90	38.00	<p>Limonitic Altered Syenite Bright reddish orange to greyish orange syenite, much as 5.0 - 17.0m; <10% hornblende (concentrations vary) with significantly less biotite; biotite may replace hornblende locally; hornblende shows some corrosion and dark red oxidation locally; biotite generally more strongly altered; all mafics coated with manganese oxide locally; mafic minerals are best observed and preserved where limonitic staining is less intense. Feldspar-rich matrix shows excellent crystal form, lustre and variable translucence; crystals are generally not sericitized; some feldspar (clusters <1cm) show complete alteration to soft, yellowish clay. Not calcareous; no quartz veining; rare modal quartz; no sulfides. 34.0 - 36.0m: Very strong limonitic staining; mafic minerals very strongly altered.</p>
38.00	42.00	<p>Limonitic Altered Syenite S1 Hornblende syenite, as 23.9 - 38.0m; <2% angular, clear to orange-stained quartz fragments; very rare sub-mm veinlets; strongly altered mafics; no visible sulfides.</p>
42.00	46.50	<p>Limonitic Biotite Monzonite ->LSY C3 Greyish-orange biotite monzonite with minor hornblende; most mafics fresh to very weakly altered; biotite-rich is transitional into hornblende-rich syenitic rock; pervasive limonitic staining intensifies with depth; original textures are very well preserved; intensely calcareous; no quartz; no visible sulfides.</p>
46.50	65.00	<p>Limonitic Altered Syenite C3 S1 Sb Rich, bright orange syenite; very strong, even pervasive limonitic staining; <2% altered hornblende is still recognizable and is usually coated with manganese oxide; all biotite has completely altered. Feldspar crystals are well formed, pearly and translucent near upper contact but becomes increasingly sericite and clay altered, waxy to opaque and textures become blurred and destroyed; as alterations increase, unit develops sugrosic, incompetent to dirty appearance; remnants of mafic minerals are less common where other alterations increase; intensely calcareous. Very rare clear quartz fragments and very, very rare sub-mm veinlets.</p>

From	To	Geological Log
		58.0 - 60.0m: <5% sub-cm stibnite with weak tarnish and patchy kermesite; stibnite seems to display lineation indicative of infilling. 62.0 - 64.0m: <2% stibnite, as 58.0 - 60.0m. Entire interval may represent sheared zone.
65.00	69.50	Limonitic Altered Syenite C3 Greyish hornbledic syenite, as 5.0 - 17.0m; intensely calcareous; rare calcite veinlet fragments; <10% intensely altered fragments as 46.5 - 65.0m; no quartz; no sulfides; hornblende and biotite crystals are very well preserved. Intense argillic and sericite alteration at sharp lower contact; some sheared textures.
69.50	99.00	Biotite Monzonite C3 Dark blue-grey monzonite with 50% black to partially sericitized (silvery mica resembles sulfides in some light); original mineralogy and textures are excellently preserved but unit has felted coating on sub-vitreous to pearly feldspar-rich matrix. Intensely calcareous matrix; weak white calcite stockwork expressed as sub-cm veinlet fragments. No secondary quartz; trace fresh yellow pyrite as very fine clusters <2mm. Rare limonitic chips at upper contact. 72.0 - 74.0m: Abundant clay. 78.0 - 80.0m: Trace fresh stibnite < 2mm as blades within clear quartz fragments <3mm. From 84.0m: Decreased grain size; most surfaces coated with carbonate and sericite; reaction to HCl creates unpleasant foul-smelling gas; sucrosic-looking locally; develops dark green earthy appearance. Increasing argillic and sericitic alteration - intense near lower contact; unit appears incompetent. Orange stained clay and chips mark lower contact.
99.00	104.20	Graphitic siltstone C3 Gr Graphitic siltstone; altered to clay; marbled with calcite - reaction with HCl creates unpleasant smelly gas; soft to hard; calcite veining decreases with depth.
104.20	112.00	Siltstone (Earn Group) C2 Medium grey, calcareous siltstone; siliceous to soft and clay altered; angular, blocky to platy fragments; bedding laminations visible; occasional weakly limonitic surfaces; trace fresh pyrite clusters <1/2mm; argillic horizons as bleached looking clay clots which retain original textures; calcite lines sub-mm fractures.

*** END OF HOLE *** 112.00

HOLE NO: RC97-2004	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BIG ROCK EAST
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 60.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	OVERBURDEN
4.00	6.00	LIMONITIC ALTERED QUARTZ MONZONITE
6.00	8.10	ARGILLITE
8.10	10.50	LIMONITIC ALTERED QUARTZ MONZONITE
10.50	11.00	ARGILLITE
11.00	12.00	LIMONITIC ALTERED QUARTZ MONZONITE
12.00	13.30	ARGILLITE
13.30	14.40	LIMONITIC ALTERED QUARTZ MONZONITE
14.40	15.90	GRAPHITIC ARGILLITE
15.90	27.50	LIMONITIC ALTERED QUARTZ MONZONITE
27.50	54.00	GRAPHITIC ARGILLITE
54.00	57.00	LIMONITIC ALTERED QUARTZ MONZONITE
57.00	60.00	GRAPHITIC ARGILLITE
60.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	<p>Overburden</p> <p>Overburden, as determined by drill site technician. Mixed lithologies - dominantly shale and argillite with intrusive from 3.0m; numerous organics; unwashed sample is damp and soil-like; most chip surface show limonitic siltskins, indicative of near surface weathering; some weakly calcareous sections; minor stockwork in sediments; no identifiable sulfides. Dominantly intrusive, as described above, from 3.0m.</p>
4.00	6.00	<p>Limonitic Altered Quartz Monzonite C1</p> <p>Intermixed grey and light orange monzonite; <50% fragments display pervasive limonitic staining; grey to white chips appear bleached, rather than representing a fresh version; limonitic staining is most intense and extensive 3.0 - 4.0m (same unit as overburden); strongly weathered.</p> <p>Rock is quite incompetent and very crumbly locally; original textures are easily discernible as weathering and decomposition tends to accentuate grain boundaries; void space and very rare whitish, strongly clay-altered k-spar phenocrysts <3mm indicate phytic texture; feldspar-rich matrix has micro-sucrosic texture and opaque luminosity due to intense sericitic and argillic alteration; minor quartz component retains slight vitreous lustre - no quartz eyes; biotite is always completely destroyed - remnants are rare and usually seen on chips which are stained orange; matrix is weakly calcareous; trace clear, hairline quartz veining. Very rare, trace, completely oxidized pyrite cubes <1/4mm observed in most strongly limonitic fragments; very, very rare non-limonitic boxworks <1/4mm in bleached chips also indicate former presence of sulfides.</p>
6.00	8.10	<p>Argillite ->ARGG S3 Sk</p> <p>Very weakly carbonaceous, siliceous argillite intermixed with minor clay-altered (or gougey, or just plain dirty) shale; strongly weathered rock - only most resistant fragments remain in (poorly) washed sample. Most chips are infused with silica as blobs, swirls, breccia cement, but most common as mm- to cm-scale veinlets; hard, angular and blocky chips. Non-calcareous; no sulfides.</p>
8.10	10.50	<p>Limonitic Altered Quartz Monzonite TR Py P4 C1</p> <p>Rich dark orange limonitic altered quartz monzonite; limonitic staining of incompetent, weathered rock (as 4.0 - 6.0m) is even and intense and tends to overprint and obliterate other features and textures, especially near upper contact; several large clay clots. All surface coated with opaque, dark orange, sericitic siltskins, indicative of near surface weathering; sericitization of matrix, plus local strong clay alteration, has caused unit to be extremely incompetent - most fragments near upper contact can be crushed with pressure from fingernail; weakly calcareous matrix; no silicification; very, very minor modal quartz; no stockwork. Very rare, trace, dark red, sub-cubic limonite specks <1/4mm represent some (likely a higher percentage) former disseminated pyrite; generally rock is too altered to recognize sulfides.</p>
10.50	11.00	<p>Argillite S2 Sk</p> <p>Hard, possibly weakly carbonaceous, silicified and strongly stockworked argillite, as 6.0 - 8.1m; no sulfides; no carbonate; minor clay.</p>
11.00	12.00	<p>Limonitic Altered Quartz Monzonite 5% Py P4 C1</p> <p>Intensely weathered, altered and limonitic intrusive, as 8.1 - 10.5m; secondary quartz and stockwork are absent; opaque and sucrosic; surfaces with dark orange sericitic siltskins and frequently coated with spotty manganese oxide; chips can be destroyed with slight pressure. Several chips show >5% very fine (1/4 - 1/10mm) disseminated pyrite cubes which have altered to dark red flecks of limonite. Weakly calcareous; some silvery pseudomorphs of former biotite - generally very poorly preserved.</p>

From	To	Geological Log
12.00	13.30	Argillite S2 Sk Black, hard, angular, blocky, stockworked argillite as 10.5 - 11.0m.
13.30	14.40	Limonitic Altered Quartz Monzonite 5% Py P4 Note: This unit is under-represented in 14.0 16.0m washed sample. Intensely limonitic limonitic, altered, monzonite, as 11.0 - 12.0m; original features and textures are slightly better preserved.
14.40	15.90	Graphitic Argillite S2 Sk Gr Black argillite; moderately graphitic - unwashed sample creates good graphite smear on paper; increasingly graphitic with depth - several chips show excellent oily graphitic sheen. Moderate milky quartz stockwork with randomly oriented veinlets <3mm; rare limonitic fractures; no sulfides; hard, angular and blocky; non-calcareous.
15.90	27.50	Limonitic Altered Quartz Monzonite 95:5 Altered Quartz Monzonite 3% Py P4 C2 Rich dark orange monzonite, similar to intrusive encountered higher in hole; very strong, even, pervasive limonitic staining; original textures are moderately well preserved - grain boundaries easily recognized although phyrlic clay-altered k-spar remnants are very rare and there are no quartz eyes; altered biotite is recognizable as variably preserved orange-stained, silverish, micaceous to powdery pseudomorphs; most surfaces show strong sericitic, limonitic coatings, often accompanied by spotty manganese oxide. <3 - 5% dark red flecks of disseminated limonite represents pyrite cubes <1/4mm; not seen on chips, but intensity of oxidation and alteration tends to overprint; 32.0 - 34.0m: <5% chips lack such intense limonitic staining and the disseminated sulfides show only partial oxidation to limonite; these chips also show weak silicification and more hematitic staining as envelopes around fractures; this interval should carry grade; weak clear quartz stockwork. Moderately to strongly calcareous matrix.
27.50	54.00	Graphitic Argillite S1 Sk Gr Black graphitic argillite; moderate graphitic lustre where not intensely silicified; strong stockwork, to increasingly more intense, of randomly oriented, mm-scale, milky quartz veinlets; matrix also shows pervasive silicification; hard, angular and blocky fragments; no sulfides; very, very weak reaction to HCl from unwashed sample; increasingly graphitic from top contact. 42.0 - 50.0m: More strongly graphitic; decreased stockwork; very dirty and softer; tends toward graphitic shale; slight increase in quantity of limonitic surfaces.
54.00	57.00	Limonitic Altered Quartz Monzonite 90:10 Altered Quartz Monzonite 7% Py P2 TR As C2 Medium greyish orange monzonite with <10% unoxidized/unstained fragments; pervasive limonitic staining is moderate and reasonably even, but oxidation of unit is not strong or complete. 7% fine disseminated pyrite 1/4 to 1/10mm; occasionally pyritic blebs; sulfides usually show tarnish to moderate oxidation, where only crystal surfaces are affected and aureoles adjacent to crystals are limonite stained; surface of pyrite crystals frequently appear corroded; rare sulfides show complete oxidation to dark red limonite; <1% sulfides are fresh; <1% very fine acicular arsenopyrite, weakly tarnished - observed on distinctly less oxidized chips; sulfides create distinct spotted appearance on chip surfaces - provides uncommonly good contrast. Original features and textures are well preserved; most modal, and especially phyrlic feldspar, show argillic alteration; matrix also sericitized; biotite altered to poorly preserved shreds; moderately calcareous matrix. No secondary quartz; very, very rare clear quartz eyes. Looks juicy, but sulfides are not very strongly oxidized - recoveries might be poor; most surfaces show some sort of oxidation.

From	To	Geological Log
57.00	60.00	Graphitic Argillite S1 Sk Gr Moderately to strongly graphitic argillite; minor (5 - 10%) intermixed limonitic and non-limonitic altered quartz monzonite, which may be contamination in a wet hole (no mention of these units or potential contamination in the technician's log); moderate quartz stockwork, much as described in intervals above.

*** END OF HOLE *** 60.00

HOLE NO: RC97-2005	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BIG ROCK EAST
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 68.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	OVERBURDEN
2.00	5.00	GRAPHITIC ARGILLITE
5.00	6.50	LIMONITIC ALTERED QUARTZ MONZONITE
6.50	9.00	ARGILLITE
9.00	12.00	SHALE
12.00	18.20	SHALE
18.20	19.90	LIMONITIC ALTERED QUARTZ MONZONITE
19.90	22.10	LIMONITIC QUARTZ MONZONITE
22.10	29.40	LIMONITIC ALTERED QUARTZ MONZONITE
29.40	31.80	ARGILLITE
31.80	32.30	LIMONITIC ALTERED QUARTZ MONZONITE
32.30	41.30	GRAPHITIC ARGILLITE
41.30	42.20	LIMONITIC ALTERED QUARTZ MONZONITE
42.20	47.70	GRAPHITIC ARGILLITE
47.70	52.50	LIMONITIC ALTERED QUARTZ MONZONITE
52.50	53.50	QUARTZ MONZONITE
53.50	61.20	LIMONITIC ALTERED QUARTZ MONZONITE
61.20	64.40	GRAPHITIC ARGILLITE
64.40	65.60	LIMONITIC ALTERED QUARTZ MONZONITE
65.60	68.00	GRAPHITIC ARGILLITE
68.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Overburden Overburden, as determined by drill site technician; no sample.
2.00	5.00	Graphitic Argillite S1 Sk Gr Black, weakly graphitic argillite; moderate milky and clear quartz stockwork and pervasive silicification; <50% chips display limonitic staining; likely represents weathered bedrock; no sulfides.
5.00	6.50	Limonitic Altered Quartz Monzonite C1 Pale orange, intensely weathered and decomposed, bleached monzonite; weak, even, pervasive limonitic staining; original grain boundaries are easily discernible, but feldspar-rich matrix has altered to opaque, recrystallized, granular rock; biotite altered away; no quartz; no visible sulfides.
6.50	9.00	Argillite 50:50 Shale C1 S1 Sk Intermixed argillite and shale; weakly calcareous; very muddy (and very, very poorly washed!); strongly weathered; abundant clay; minor completely decomposed monzonite as 5.0 - 6.5m.
9.00	12.00	Shale C1 Dark brown, soft, platy shale; limonitic bedding planes; minor localized pervasive limonitic staining.
12.00	18.20	Shale CS Sk Dark brown to black, soft, platy shale with minor argillite; very strongly calcareous matrix; contains <50% calcite veinlets and veinlet fragments <1.5cm; incompetent - abundant clay. Reaction to HCl is immediate, vigorous and creates visible, slightly unpleasant smelling gas. Argillite fragments contain weak quartz stockwork and are typically harder and more competent.
18.20	19.90	Limonitic Altered Quartz Monzonite TR Py P4 C3 Deep orange limonitic altered quartz monzonite; pervasive limonitic staining is even and intense; original features and textures are well preserved; rare residue of completely clay altered k-spar phenocrysts observed in situ; no quartz eyes and low percentage of modal quartz; biotite as ragged limonitic shreds and rare siverish pseudomorphs - rarely coated with manganese oxide; pearly to sub-vitreous lustre except where surfaces coated with sericitic skins. Strongly calcareous matrix; very rare clear quartz hairline fractures. Come chips show <5% dark red limonite flecks <1/4mm (to 1/10mm) after disseminated pyrite - overall evidence of sulfides less than 1%.
19.90	22.10	Limonitic Quartz Monzonite C3 Intrusive, as 18.2 - 19.9m, but with 5 -10% fresh black biotite; very, very rare, trace completely oxidized disseminated pyrite.
22.10	29.40	Limonitic Altered Quartz Monzonite 6% Py P4 C3 Dark orange quartz monzonite, much as 18.2 - 19.9m; original textures are moderately well preserved although argillically altered k-spar pheoncrysts are rarely observed in situ; no quartz eyes; biotite as powdery limonite-stained sericitic pseudomorphs and as barely recognizeable limonitic shreds - occasionally coated with amnganese oxide; strongly calcareous feldspar-rich matrix chows strong sericite and clay alteration - creates opaque, micro-sucrosic texture where some chips can be destroyed with pressure from fingernail; very strong, even, pervasive limonitic staining. <6% very fine disseminated pyrite (<1/10mm) as subtle dark red flecks of limonite - occurrences obscures on most strongly altered and limonite stained fragments. From 26.0 m: Rare fragments (<1%) with fresh black biotite; one cloudy quartz eye <4mm.

From	To	Geological Log
29.40	31.80	<p>Argillite S1 Sk</p> <p>Black argillite; non-carbonaceous, but with very rare graphitic surfaces; slightly silty; hard, siliceous and silicified with numerous sharp edges; weak to moderate milky mm-scale quartz stockwork; very, very weakly calcareous - reaction to HCL is audible but not visible; trace limonitic fractures plus several orange-stained quartz veinlets.</p>
31.80	32.30	<p>Limonitic Altered Quartz Monzonite C1</p> <p>Dark orange intensely altered, calcareous and sericitic, granular, soft, sucrosic-looking monzonite; most original features and textures overprinted; most fragments can be crushed with minor pressure from fingernail - extremely incompetent.</p> <p>Trace dark red flecks after disseminated pyrite - likely under-representative of real former sulfide content.</p>
32.30	41.30	<p>Graphitic Argillite S1 Sk C1 Gr</p> <p>Black argillite; increasingly graphitic with depth; most surface with good oily lustre; weakly calcareous matrix; weak milky quartz stockwork - randomly oriented veinlets usually on mm-scale; platy to blocky fragments; very hard and angular where more silicified; no sulfides.</p>
41.30	42.20	<p>Limonitic Altered Quartz Monzonite TR Py P4 C1</p> <p>Medium orange monzonite; even, pervasive limonitic staining; original textures much better preserved than intervals up hole; phytic textures are not preserved; biotite most frequently seen as poorly preserved, ragged limonitic shreds; weak sericitization of matrix feldspars.</p> <p>Trace (to 5% locally) dark red flecks <1/4mm and occasional nearly completely oxidized disseminated pyrite; total sulfides are likely under-represented; trace manganese oxide coating on some sulfides.</p>
42.20	47.70	<p>Graphitic Argillite C1 Gr</p> <p>Weakly calcareous, strongly graphitic argillite; hard, slightly siliceous fragments break, often with conchoidal fracture, into blocky, angular fragments; very rare surfaces show thin limonitic patina; very, very rare calcite veinlets.</p>
47.70	52.50	<p>Limonitic Altered Quartz Monzonite C2-C3 Qe</p> <p>Dull orange-brown monzonite with even pervasive limonitic staining; original igneous textures are very weakly preserved; occasional orange-stained, waxy to intensely clay-altered k-spar phenocrysts <2mm observed in situ; <1% clear quartz eyes <3mm - resemble gumdrops in very strongly altered nougat-like matrix.</p> <p>Feldspar-rich matrix shows intense sericite alteration and some argillic alteration; rock has opaque, slightly waxy, micro-sucrosic/granular texture which tends to overprint original textures; all chips have felted appearance and surfaces are coated with sericitic siltskins; former biotite as recognizable, but not perfectly preserved, limonitic crystal forms with darker orange colouration than matrix; many fragments can be crushed with pressure from fingernail; minor modal quartz.</p> <p>Trace dark orange flecks of limonite <1/4mm represent former disseminated pyrite - sulfide content is likely higher than visual evidence suggests.</p> <p>Strongly calcareous matrix - reaction to HCl is slow to start but gains in intensity with time.</p>
52.50	53.50	<p>Quartz Monzonite C3</p> <p>Dark blue-grey, porphyritic (fresh to weakly clay-altered K-spar phenocrysts <5mm) monzonite with intensely calcareous matrix and 5 - 10% fresh black biotite and silvery pseudomorphs of biotite; good pearly to vitreous lustre; no sulfides, stockwork or pervasive silicification.</p>
53.50	61.20	<p>Limonitic Altered Quartz Monzonite C2-C3 Qe</p> <p>Sericitic, calcareous intrusive as 52.5 - 53.5m; excellently preserved phytic textures with numerous clear quartz eyes to 3mm and whitish moderately to strongly clay-altered k-spar</p>

From	To	Geological Log
		<p>phenocrysts <5mm; k-spar crystals are occasionally patterned with dendritic manganese oxide. Sericitic skins on most surfaces; spotty manganese oxide throughout. Trace dark red cubic fleck after disseminated pyrite < 1/4mm. Strongly calcareous - strong reaction to HCl intensifies with time and creates strong unpleasant odour. Intensity of even, pervasive limonitic staining decreases with depth.</p>
61.20	64.40	<p>Graphitic Argillite C1 Gr Strongly graphitic argillite; excellent oily graphitic sheen; weakly calcareous matrix; hard, angular fragments with sharp edges; very, very rare quartz veinlets; rare limonitic surfaces; no sulfides.</p>
64.40	65.60	<p>Limonitic Altered Quartz Monzonite 5% Py P2 C3 Dull light orange quartz monzonite; good textures but phyric k-spars are strongly clay-altered; weak sericite alteration of modal feldspar; rare quartz eyes; biotite altered to limonitic sreds; strongly calcareous matrix. >5% disseminated pyrite <1/10mm show weak (tarnish) to slightly stronger oxidation; only surfaces of sulfides show oxidation and are often coated with manganese oxide; trace pyrite >1/4mm, a different striated phase, is generally less oxidized, displaying only tarnish and often coated with manganese oxide.</p>
65.60	68.00	<p>Graphitic Argillite C3 Gr Black, very strongly graphitic argillite breaks into blocky angular fragments with sharp edges; intensely calcareous matrix - instantaneous, vigorous reaction to HCl created visible, odoriferous gas; no quartz, no calcite; no sulfides.</p>

*** END OF HOLE *** 68.00

HOLE NO: RC97-2006 SECTION: 22925.66 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 60.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	31/12/97
Date finished:	31/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	STEVE ERDMAN

*** COLLAR COORDINATES AND RL ***
 NOMINAL 19671.03mN 22925.66mE 817.41RL

Pre-collar depth: Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation 34
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	31.00	LIMONITIC ALTERED QUARTZ MONZONITE
31.00	60.00	GRAPHITIC ARGILLITE
60.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.00	Colluvium Limonitic Altered Quartz Monzonite, Graphitic Argillite, Siltstone (Steel Formation) - muddy
2.00	31.00	Limonitic Altered Quartz Monzonite C1, S1-S3, P4-P2, 1-3% Lm, tr Py Light orange to dark brown/orange Limonitic Altered Quartz Monzonite. Limonite pervasive throughout interval and in darker coloured chips limonite is stronger on some fracture surfaces. Biotite is completely altered to white mica and in most is weathered out or slightly silicified and occur as white coloured (tan coloured Limonitic Altered Quartz Monzonite). Feldspar are moderately altered to clay; from 8-16m there is slightly more feldspar seen, with a few chips of feldspar also. From 2-12m the chips are dark brownish/orange dominantly; from 12-24m the chips are light to medium orange; and from 24-31m the chips are medium to dark orange and some brown/orange chips. Pyrite occurs as fine-grained blebs oxidized to MgO ₂ ; abundant from 2-11m. Most occurs on fracture surfaces but some are small blebs disseminated on light coloured chips from 14-22m. Pyrite also occurs as fine to medium grained bleb on a few chips from 28-32m; pyrite is moderately tarnished and slightly cubic shaped with the medium sized pyrite. From 12-24m there is a few specks on lighter coloured Limonitic Altered Quartz Monzonite chips which is pyrite oxidized to FeO ₂ (trace). Very weakly calcareous (can hear it fizz throughout interval. There is a trace amount of Qtz flooding from 2-12m and 24-31m and slightly more to moderately more from 12-24m.
31.00	60.00	Graphitic Argillite C0-C1, S0-S1, P2-P4, tr Py, tr Lm Dark black/grey to black Graphitic Argillite. Non-calcareous except from 38-40m there is a fracture surface on a few chips that fizzes. Interval from 31-46m is slightly graphitic and from 46-60m the Graphitic Argillite is moderately to strongly graphitic. Limonite occurs on fracture surfaces and as staining of Qtz veinlets; limonite is more abundant from 31-38m and then from 38-60 it is very trace on just a few chips (almost fresh rock). Pyrite occurs on the Graphitic Argillite and Qtz from 34-60m as fine to medium grained slightly tarnished pyrite; some cubic pyrite. From 32-34m also pyrite which is fine-grained and completely oxidized to MgO ₂ occurs on a chip of Qtz. From 31-32m no pyrite seen - perhaps absent or completely oxidized to MgO ₂ . Qtz veining seen from 31-38m and a few Qtz chips also. 25% medium to dark grey Siltstone (Steel Formation). Non-calcareous. Little limonite occurs except on a few fracture surfaces from 32-38m. Pyrite occurs as fine-grained blebs and disseminated slightly tarnished to moderately-strongly tarnished. No Qtz seen on Siltstone (Steel Formation).

*** END OF HOLE *** 60.00

HOLE NO: RC97-2007	SECTION:22995	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	50.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	10/10/97		
Date finished:	10/10/97		
Logged by:	J HANSON		
Relogged by:			
Sampled by:	DYLAN		

*** COLLAR COORDINATES AND RL ***

SURVEYED	19579.68mN	22994.17mE	798.57RL
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Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 40
 Top of fresh rock: 42
 Water first encountered: NA
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	26.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	4.50	LIMONITIC ALTERED QUARTZ MONZONITE
4.50	19.50	SHALE
19.50	27.50	GRAPHITIC ARGILLITE
27.50	28.00	LIMONITIC ALTERED QUARTZ MONZONITE
28.00	31.00	GRAPHITIC ARGILLITE
31.00	41.50	LIMONITIC ALTERED QUARTZ MONZONITE
41.50	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	Colluvium Fill, overburden, permafrost
4.00	4.50	Limonitic Altered Quartz Monzonite 50:50 Altered Quartz Monzonite C0, S1, P4, 4% Lm Light orange / brown Limonitic Altered Quartz Monzonite with weak limonite alteration. Chips appear very siliceous and hard. No remaining micas, and feldspar phenocrysts strongly altered to a soft white clay. Traces of manganese oxide from intensely oxidized py on fracture surface of Limonitic Altered Quartz Monzonite . White Altered Quartz Monzonite has no micas, feldspar phenocrysts strongly clay altered, and no visible sulphides or manganese oxide.
4.50	19.50	Shale C0, S0, P4, P2, tr py, rtr Lm Medium grey shale is very soft with much clay on chip surfaces. Bright orange limonite on few fracture surface , and other fracture surface coated with very fine grained py covered with limonite . Poor recovery 18-20.
19.50	27.50	Graphitic Argillite C0, S1, P4, tr Lm argillite is very graphitic, and silty. Chip surfaces are rough, and somewhat soft. Bright orange limonite is on many fracture surface . Unit is silicified with white quartz stock work .
27.50	28.00	Limonitic Altered Quartz Monzonite C0, S0, P4, 4% Lm Light orange / brown Limonitic Altered Quartz Monzonite with pervasive limonite alteration. There are few silver micas, and feldspar phenocrysts are strongly to intensely argillically altered to a soft white clay not stained with limonite . Traces of manganese oxide on fracture surface from intensely oxidized py .
28.00	31.00	Graphitic Argillite C0, S1, P4, tr Lm Argillite is graphitic, and chips are harder than above unit of argillite. Weakly silicified with white quartz stock work , and minor quartz flooding of fracture spaces. Limonite is on few fracture surface .
31.00	41.50	Limonitic Altered Quartz Monzonite C1, S1, P4, P1, tr py, 4% Lm Light brown Limonitic Altered Quartz Monzonite with moderate limonite alteration ; 1/3 chips very light brown. Few micas remain, and local strong argillic alteration of feldspar . Feldspar phenocrysts are altered to soft white clay, as well as fine grained feldspar matrix of very light brown chips ; they are brittle and are easily broken. Few fracture surface have darker limonite and may occasionally be coated with iron oxide, or manganese oxide. Unit is weakly silicified with translucent quartz stock work at upper contact , rare quartz eyes, and grey quartz chips 36-38. Minor unit siliceous white Altered Quartz Monzonite at bottom contact , with coarse grained fresh or tarnished py . Trace coarse grained tarnished py 32-34 on chip surfaces with poor limonite alteration. Unit is very weakly calcareous .
41.50	50.00	Graphitic Argillite C0, S1, tr Lm Argillite is very graphitic, and chips are somewhat soft. Traces of limonite at upper contact, and rock is fresh below 42m. Rare white quartz stock work .

*** END OF HOLE *** 50.00

HOLE NO: RC97-2008 SECTION: 22995 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	10/10/97
Date finished:	10/10/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	DYLAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19571.14mN 22994.37mE 795.81RL

Pre-collar depth: 50 Final depth:
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 22
 Top of fresh rock: 44
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	26.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	7.90	GRAPHITIC SHALE
7.90	8.20	LIMONITIC ALTERED QUARTZ MONZONITE
8.20	14.50	GRAPHITIC ARGILLITE
14.50	15.50	LIMONITIC ALTERED QUARTZ MONZONITE
15.50	16.00	CHERT
16.00	18.00	LIMONITIC ALTERED QUARTZ MONZONITE
18.00	20.00	CHERT
20.00	33.50	GRAPHITIC ARGILLITE
33.50	38.00	LIMONITIC ALTERED QUARTZ MONZONITE
38.00	40.00	ALTERED QUARTZ MONZONITE
40.00	44.00	LIMONITIC ALTERED QUARTZ MONZONITE
44.00	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	7.90	Graphitic Shale C0, S0, P4, P2, tr py, tr Lm Medium grey shale is graphitic and very soft and easily crushed. Limonite on many fracture surface , and few fracture surface covered with very fine grained py coated with limonite . Minor units of graphitic argillite.
7.90	8.20	Limonitic Altered Quartz Monzonite C0, S1, P3, tr py, 4% Lm Very light orange / brown Limonitic Altered Quartz Monzonite with weak limonite alteration. Chips are very siliceous. No micas, and rare feldspar phenocrysts are strongly argillically altered to white clay. Trace manganese oxide from strongly oxidized py .
8.20	14.50	Graphitic Argillite C0, S1, P4, tr Lm Argillite is graphitic and has very weak white quartz stock work . Greenish clay on most surfaces, and traces of limonite on fracture surface . Interbedded with very soft shale 12-14.5 . Drill tech reported poor recovery 14-16.
14.50	15.50	Limonitic Altered Quartz Monzonite C0, S2, P4, 4% Lm Light to med orange / brown Limonitic Altered Quartz Monzonite with moderate limonite alteration. Few micas, and rare feldspar phenocrysts are strongly clay altered to white clay. Chips appear silicified and are very hard. Trace manganese oxide from intensely oxidized py .
15.50	16.00	Chert C0, S3, tr Lm Chips are extremely siliceous and light to med grey in color. Reddish staining from limonite on few surfaces. White stock work in few chips.
16.00	18.00	Limonitic Altered Quartz Monzonite 50:50 Argillite C0, S1, P4, 6% Lm True thickness ? Unit not noted in quick log. Medium orange / brown Limonitic Altered Quartz Monzonite has pervasive limonite alteration and appears very siliceous. No micas, and feldspar are unaltered. Limonite is more intense on some fracture surface , and there is trace manganese oxide from intensely oxidized py . Unit is interbedded with very hard black argillite.
18.00	20.00	Chert C0, S4, P4, 1% Lm Unit similar to 15.5-16. Light to med grey chert (or quartz) is stained reddish brown on most fracture surface from limonite . Few fracture surface coated with manganese oxide from intensely oxidized py . Orange clay is on many surfaces.
20.00	33.50	Graphitic Argillite C0, S0 Argillite is hard and chert like in few chips at upper contact, but is graphitic and somewhat soft throughout. Traces of limonite on few fracture surface at upper contact ; none below that. No chips recovered in "washed " sample 26-30 ; fault? Interbedded with very soft grey shale 30-34.
33.50	38.00	Limonitic Altered Quartz Monzonite C0, S0, P4, 4% Lm Light orange / brown Limonitic Altered Quartz Monzonite has pervasive limonite alteration. There are few white micas, and localized strong argillic alteration of feldspar ; chips are brittle and easily broken. Limonite is more intensely on some fracture surface , and there is trace manganese oxide from intensely oxidized py .
38.00	40.00	Altered Quartz Monzonite C1, S0, P1-P0, 2% py, 1% Lm Light grey Altered Quartz Monzonite has light orange limonite on most fracture surface . Biotite has altered to white micas, and feldspar are unaltered, or very weakly clay altered. Coarse grained and cube disseminated py is tarnished on limonite surfaces, or fresh. Unit is very weakly calcareous .
40.00	44.00	Limonitic Altered Quartz Monzonite 70:30 Altered Quartz Monzonite C1, S0, P4, P1-P0, 2% py, 4% Lm Light brown Limonitic Altered Quartz Monzonite has moderate limonite alteration ; more intensely on some fracture surface . There are few remaining micas, and fine grained feldspar matrix is moderately clay altered ; chips are brittle and are easily broken. Rare feldspar phenocrysts are strongly altered to a soft limonite stained clay. Fine grained py has been intensely oxidized to manganese oxide 40-42. Coarse grained and cube py is tarnished , or

From	To	Geological Log
		fresh and unoxidized. Unit is very weakly calcareous . Light grey siliceous Altered Quartz Monzonite is interbedded in 42-44, and has white micas, and 2% disseminated coarse grained and cube py that is mostly fresh, rarly tarnished .
44.00	50.00	Graphitic Argillite C0, S0 Argillite is graphitic, an there is no limonite on fracture surface ; rock is fresh.

*** END OF HOLE ***

HOLE NO: RC97-2009 SECTION:22980 GRID:MINE

PROJECT CODE : BREWERY CREEK
TENEMENT :
PROSPECT :
GRID : MINE
MAP REFERENCE: MINE
LOCATION : LUCKY
HOLE TYPE : RC

*** DRILLING SUMMARY ***

Table with 2 columns: RC CENTER SAMPLING (0.00, 54.00, 5.25) and Drill details (Contractor: MIDNIGHT SUN, Rig: SCHRAMM, Dates: 10/10/97, Logged by: J HANSON, Sampled by: STEVE E)

*** COLLAR COORDINATES AND RL ***
SURVEYED 19539.48mN 22974.28mE 792.40RL

Pre-collar depth: 50 Final depth: 54.00
Purpose of hole: EXPLORATION
Hole status: EXTENDED 4M
Comments:

Material left in hole: NONE
Base of complete oxidation
Top of fresh rock:
Water first encountered: 45
Water inflow estimate: NA

*** SURVEY DATA ***

Table with 3 columns: Depth, Azimuth, Inclination. Row 1: 0.00, 26.00, -55.00

*** SIGNIFICANT ASSAYS ***

Table with 3 columns: From, To, Width

*** SUMMARY LOG ***

Summary log table with 3 columns: Start Depth, End Depth, Lithology. Includes entries like LIMONITIC ALTERED QUARTZ MONZONITE and END OF HOLE.

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	<p>Limonitic Altered Quartz Monzonite C0, S1-S2, P4, 5% Lm Bright orange Limonitic Altered Quartz Monzonite with pervasive limonite alteration. Chips appear very siliceous, and 2-4 there are translucent quartz chips as well. There are no micas, and occasional feldspar phenocrysts are strongly clay altered. Cube py has been intensely oxidized to iron oxide. Trace manganese oxide on fracture surface 2-4.</p>
4.00	29.00	<p>Graphitic Argillite 70:30 Siltstone (Earn Group) C0, S0, P4, 1% Lm Argillite is graphitic, and has limonite, and greenish clay on many fracture surface. Medium grey siltstone has limonite on many fracture surface as well. Most interbedded siltstone is below 22m. Siltstone at bottom contact has fine grained disseminated fresh py. Error in sampling; 4-6 and 6-8 in one bag.</p>
29.00	31.00	<p>Limonitic Altered Quartz Monzonite C1, S0, P2-P0, 2% py, 3% Lm Tan colored Limonitic Altered Quartz Monzonite has very weak limonite alteration. Biotite has altered to micas which are coated with patchy limonite. Feldspar are unaltered. Coarse grained py is rarely moderately oxidized to manganese oxide; more often it is tarnished, or fresh. Unit is weakly calcareous.</p>
31.00	34.40	<p>Quartz Monzonite C2, S1, P2-P1, 1% py, tr Lm Blue grey Quartz Monzonite is siliceous, and has black biotite that is fresh, or weakly altered around outer edges. Immediate, moderate reaction to HCl. 1% disseminated py may be coated in limonite, or tarnished.</p>
34.40	38.50	<p>Limonitic Altered Quartz Monzonite C1, S0, P3, tr py, 3% Lm Tan colored Limonitic Altered Quartz Monzonite is similar to above unit 29-31. Limonite alteration is weak; slightly more intense on 10% chips. There are no micas, and argillic alteration of feldspar is moderate to strong. Rare py has been strongly oxidized. Unit is weakly calcareous.</p>
38.50	40.00	<p>Quartz Monzonite 70:30 Limonitic Quartz Monzonite C2, S1, P1, tr py Blue grey siliceous Quartz Monzonite has black biotite that is fresh, or weakly altered around outer edges. Trace coarse grained py is tarnished. Few clear quartz chips from quartz veins. Limonitic Quartz Monzonite 38-40 has weak limonite alteration, and mostly fresh black biotite.</p>
40.00	42.50	<p>Limonitic Altered Quartz Monzonite C1, S0, P3-P2, P1, 1% py, 4% Lm Dull brown Limonitic Altered Quartz Monzonite has moderate limonite alteration, and feldspar are moderately argillically altered to white clay. Trace manganese oxide from strongly or moderately oxidized py. 1% coarse grained py is tarnished. Unit has weak and delayed reaction to HCl.</p>
42.50	46.00	<p>Quartz Monzonite C1, S1, P2-P2, tr py, tr Lm Med grey Quartz Monzonite has black biotite that is fresh, or weakly altered around outer edges. Limonite on few fracture surface. Trace py has been moderately oxidized, or tarnished. Few chips weakly altered Limonitic Altered Quartz Monzonite, and Argillite; sloughing? Trace silicification from few quartz chips, and weakly calcareous.</p>
46.00	48.00	<p>Altered Quartz Monzonite C1, S0, P1, tr py, tr Lm Light grey, and buff colored Altered Quartz Monzonite has light brown limonite on many fracture surface. Feldspar have been strongly clay altered on buff colored chips. Rare py is tarnished. Few chips argillite and siltstone; sloughing?</p>
48.00	54.00	<p>Quartz Monzonite 60:40 Altered Quartz Monzonite C1, S1, P1, tr py Medium grey Quartz Monzonite interbedded with med grey Altered Quartz Monzonite. Color of both units become lighter with depth. Quartz Monzonite is siliceous, and has black biotite weakly altered at upper contact, and more strongly altered to white mica with depth. Rare py is tarnished. Unit is weakly calcareous.</p>

*** END OF HOLE *** 54.00

HOLE NO: RC97-2010	SECTION:24326.57	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SCHOONER
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 60.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	17/12/97
Date finished:	17/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	DYLAN VALLIANCOURT

*** COLLAR COORDINATES AND RL ***

NOMINAL	18399.20mN	24326.57mE	930.77RL
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Pre-collar depth: Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	11.00	LIMONITIC ALTERED QUARTZ MONZONITE
11.00	13.00	GRAPHITIC ARGILLITE
13.00	20.00	LIMONITIC ALTERED QUARTZ MONZONITE
20.00	44.50	LIMONITIC ALTERED QUARTZ MONZONITE
44.50	49.00	GRAPHITIC ARGILLITE
49.00	60.00	LIMONITIC ALTERED QUARTZ MONZONITE
60.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	Colluvium
4.00	11.00	<p>Limonitic Altered Quartz Monzonite C0, S2, P4, 2% Lm Orange/brown Limonitic Altered Quartz Monzonite. Limonite is pervasive, with stronger limonite on fracture surfaces. Non-calcareous. Biotite are completely altered to white mica. Trace biotite or weathered out. Feldspar are intensely altered to clay. Pyrite is oxidized to Manganese oxide; mostly fine-grained blebs with some small blebs disseminated throughout chips. Some medium-grained, slightly cubic pyrite is also oxidized to MgO₂. There is some fine-grained blebs of pyrite that is oxidized to iron oxide. There is some to moderate Qtz flooding; limited Qtz veinlets occur. 25% orange/brown Limonitic Quartz Monzonite. Same as above only biotite is fresh to slightly altered to white mica and the biotite is small and more abundant than in the Limonitic Altered Quartz Monzonite.</p>
11.00	13.00	<p>Graphitic Argillite C0, S1, P4, tr Lm Black Graphitic Argillite. Limonite is very trace and occurs on fracture surface of a few chips. Non-calcareous. Trace Qtz veinlets visible. Pyrite is completely oxidized to MgO₂ or on fracture surfaces of a few, fine-grained iron oxide occurs.</p>
13.00	20.00	<p>Limonitic Altered Quartz Monzonite C2, S2, P4, 2% Lm Same as 4-11m; except slightly calcareous.</p>
20.00	44.50	<p>Limonitic Altered Quartz Monzonite C1, S2, P4, 2-3% Lm Orange/brown to orange/red Limonitic Altered Quartz Monzonite. Pervasive limonite throughout interval. Stronger limonite occurs on fracture surfaces and as "coating" on some chips. Stronger limonite occurs 22-30m. Limonite turns to a reddish coloured pervasively from 30-44m in about 50% of the chips. Slightly calcareous (not visible-but can hear it). Silica flooding is seen in most of the chips throughout the interval; Qtz veining very trace in all intervals. From 22-26m about 10% chips are Qtz. Pyrite is completely oxidized. Fine-grained blebs (small and large) of manganese oxide seen (almost looks like biotite-but definitely not). Manganese oxide is quite heavy on some fracture surfaces. There are some chips which have small blebs of iron oxide. All are fine-grained. Biotite is completely altered to white mica, not very abundant. Feldspars are intensely altered to clay. From 22-24m there are a few black Graphitic Argillite chips. From 22-30m where the limonite is more intense; also has about 3-5% manganese oxide blebs.</p>
44.50	49.00	<p>Graphitic Argillite C0, S1, P4, tr Lm Black Graphitic Argillite. Trace limonite occurs on fracture surfaces of just about every chip. Non-calcareous. Slightly graphitic. Pyrite is oxidized to MgO₂ or not present (can't tell). Pyrite definitely not fresh, nor oxidized to iron oxide. Light grey to black chert. No limonite present Non-calcareous. Pyrite is small specks of MgO₂ and FeO₂; trace amount.</p>
49.00	60.00	<p>Limonitic Altered Quartz Monzonite C1, S2, P4, 2% Lm Orange/brown Limonitic Altered Quartz Monzonite. Pervasive limonite throughout. More intense limonite on fracture surfaces. Qtz flooding is moderate in interval. No Qtz veining seen. Biotite completely altered to white mica or weathered by limonite. Not very much seen of either. Feldspars from 44-52m are intensely altered to clay; from 52-60m feldspars are bright white and slightly to moderately altered to clay. Slightly calcareous after awhile. Pyrite is completely altered to MgO₂, fine-grained blebs or iron oxide specks. A few bood-red specks seen.</p>

*** END OF HOLE *** 60.00

HOLE NO: RC97-2011	SECTION:24373.02	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SCHOONER
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	70.00	5.25	
Drill contractor:	MIDNIGHT SUN			
Drill rig:	SCHRAMM			
Date started:	18/12/97			
Date finished:	18/12/97			
Logged by:	LISA JAMRICH			
Relogged by:				
Sampled by:	STEVE ERDMAN			

*** COLLAR COORDINATES AND RL ***

NOMINAL	18374.65mN	24373.02mE	934.23RL
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Pre-collar depth: Final depth: 70.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	6.00	COLLUVIUM
6.00	10.00	LIMONITIC QUARTZ MONOZITE
10.00	14.00	LIMONITIC ALTERED QUARTZ MONZONITE
14.00	17.00	SILTSTONE (EARN GROUP)
17.00	43.00	LIMONITIC ALTERED QUARTZ MONZONITE
43.00	48.00	ALTERED QUARTZ MONZONITE
48.00	65.00	LIMONITIC ALTERED QUARTZ MONZONITE
65.00	70.00	GRAPHITIC ARGILLITE
70.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	6.00	Colluvium
6.00	10.00	<p>Limonitic Quartz Monozite C1, S1, P4, 2% Lm Medium orange Limonitic Quartz Monozite. Limonite is pervasive and is stronger on fracture surfaces and on some chips as "infill" in some pits. Biotite is dominantly fresh with about 1/3 of biotite being weakly to moderately altered to clay. Pyrite is completely oxidized to MgO₂; fine-grained small blebs. Chips are weathered heavily and are soft. Pits and voids are visible on some chips (especially 6-8m). Organics seen from 6-8m and mud seen from 8-10m. Some Qtz veining seen in some chips and some chips have some Qtz flooding. Slightly calcareous from 6-8m and very trace 8-10m.</p>
10.00	14.00	<p>Limonitic Altered Quartz Monzonite C1, S1, P4, 3% Lm Orange/brown Limonitic Altered Quartz Monzonite. Pervasive limonite occurs throughout interval; stronger limonite occurs on fracture surfaces and as specks and on clay of feldspars. Reddish limonite occurs on some fracture surfaces and as specks and blebs. Biotite are completely altered to white mica or are absent. Most biotite are weathered out. Feldspars are not seen so must have been completely altered to clay. Pyrite are completely oxidized to MgO₂ and FeO₂. Manganese oxide seen in fine-grained blebs and the iron oxide seen as fine-grained, small blebs or disseminated (distinctive reddish limonite). Qtz chips seen and a trace amount of Qtz flooding. From 10-12m, strong limonitic gouge seen, less from 12-14m but still a clay coating.</p>
14.00	17.00	<p>Siltstone (Earn Group) C0-C1, S1, P4, tr Lm Medium grey Siltstone (Earn Group). Limonite occurs on fracture surfaces of some chips. Slightly calcareous. Fairly easy to break with tweezers. Pyrite is completely oxidized to fine-grained small MgO₂ blebs; also specks of iron-oxide occur on some chips. Note: Fault gouge still seen from 14-16m but not limonitic. There are some very fine veinlets of Qtz seen in the Siltstone (Earn Group). 40% dark grey/black Graphitic Argillite. Trace limonite on some chips fracture surfaces. Pyrite oxidized to MgO₂ blebs on the limonite surface - perhaps elsewhere but hard to tell. Non-calcareous. Qtz seen as trace veinlets and some chips have Qtz eyes.</p>
17.00	43.00	<p>Limonitic Altered Quartz Monzonite C1, S2, P4, 1-2% Lm Medium orange to reddish/brown Limonitic Altered Quartz Monzonite. Limonite is pervasive throughout the interval, strong on fracture surfaces; and from 17-28m. Biotite are completely altered to white mica. From 22-24m there are a few chips where the mica is just weakly altered - probably a small amount of Limonitic Quartz Monozite. Feldspars are strongly altered to clay. Qtz flooding occurs throughout interval but stronger from 28-40m. Pyrite is completely oxidized to manganese oxide and iron oxide. From 28-36m the pyrite is oxidized to FeO₂ and is fine-grained and disseminated; specks. From 17-28m and 36-43m the pyrite is dominantly oxidized to MgO₂; fine-grained blebs (especially on fracture surfaces). Some fine-grained disseminated non-oxide ("copper coloured") specks occur. Note: From 28-38m chips are more silicified, no manganese oxide seen and very trace white mica seen - doesn't look like Limonitic Altered Quartz Monzonite because of silification and weathering and reddish colour; still slightly to moderately calcareous.</p>
43.00	48.00	<p>Altered Quartz Monzonite C2, S2, P4, tr -1% Lm Greyish/green Altered Quartz Monzonite. Limonite occurs on fracture surfaces and as specks. Pyrite is oxidized to iron-oxide; fine-grained specks mostly disseminated. Qtz veining and flooding occurs; veining stained by limonite. Biotite are fresh; slightly altered around rims to white mica from 46-48m. Feldspars are moderately to strongly altered to clay and stained by limonite. Moderately calcareous. Medium orange Limonitic Altered Quartz Monzonite. Pervasive limonite; stronger on fracture surfaces. Biotite completely altered to white mica and feldspars are intensely altered to clay. Pyrite is trace but oxidized to MgO₂ as small, fine-grained blebs on fracture surfaces. Fairly soft (weathered). Moderately to strongly calcareous. Qtz flooding slightly occurs.</p>
48.00	65.00	<p>Limonitic Altered Quartz Monzonite C1-C2, S2, P4, 1% Lm Light orange to medium orange Limonitic Altered Quartz Monzonite. Limonite is pervasive; stonger on fracture surfaces. Biotite are weakly to completely altered to white mica. Feldspars are weakly to intensely altered to clay. From 48-58m biotite are weakly to moderately altered around rim. From 52-58m feldspars are weakly altered to clay and are abundant; some complete</p>

From	To	Geological Log
		chips of feldspar. Pyrite is same but completely altered to MgO ₂ or iron oxide fine-grained specks. Qtz veining and flooding occurs. From 52-58m slightly less calcareous than the rest of the interval.
65.00	70.00	Graphitic Argillite C0, S1, P2-P3, tr Py, tr Lm Grey/black to black Graphitic Argillite. Limonite occurs on a few fracture surfaces. Non-calcareous. Quite graphitic. Some gougy material occurs. Qtz veining occurs. Pyrite is fine to medium grained pyrite that is tarnished and disseminated; also occurs as pyrite oxidized to MgO ₂ on or beside Qtz and on some fracture surfaces. Note: slightly more limonite occurs 68-70m.

*** END OF HOLE *** 70.00

HOLE NO: RC97-2012

SECTION:24351.95

GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SCHOONER
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 60.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	18/12/97
Date finished:	18/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	DYLAN VALLIANCOURT

*** COLLAR COORDINATES AND RL ***
 NOMINAL 18422.70mN 24351.95mE 919.29RL

Pre-collar depth: Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	24.50	LIMONITIC ALTERED QUARTZ MONZONITE
24.50	36.00	LIMONITIC ALTERED QUARTZ MONZONITE
36.00	49.00	GRAPHITIC ARGILLITE
49.00	60.00	SILTSTONE (STEEL FORMATION)
60.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	Colluvium
4.00	24.50	<p>Limonitic Altered Quartz Monzonite C2, S1-S2, P4, 2-3% Lm Light/medium orange to orange/brown Limonitic Altered Quartz Monzonite. Limonite is pervasive throughout unit; limonite is stronger on fracture surfaces and from 6-8m and 12-14m. Biotite is completely altered to white mica. Feldspars are strongly to intensely altered to clay. Pyrite is oxidized to MgO₂ and iron oxide. Fine-grained MgO₂ blebs and fine-grained MgO₂ with FeO₂ blebs also occur. Manganese oxide blebs are so abundant looks like biotite. A lot of the MgO₂ also occurs on fracture surfaces. Qtz flooding occurs throughout the interval; stronger 18-20m. Note: 4-8m have some "blood-red" blebs on some chips and 22-24m some gougy material; limonitic.</p>
24.50	36.00	<p>Limonitic Altered Quartz Monzonite C2, S2, P4, tr Lm Light orange/grey Limonitic Altered Quartz Monzonite. Could almost be Altered Quartz Monzonite but limonite does occur in interval as a staining and on fracture surfaces. Biotite is fresh to weakly altered to white mica around the rims at the start of the interval, from about 30m to 36m the biotite is moderately altered with some biotite completely altered to white mica. Feldspars are strongly to intensely altered to clay. Pyrite occurs as fine-grained blebs which are completely oxidized to MgO₂. A few small specks of iron oxide could have been pyrite also. Qtz flooding occurs with Qtz chips in most intervals. Moderately to strongly calcareous throughout interval.</p>
36.00	49.00	<p>Graphitic Argillite C0, S1, P4, tr Lm Grey/black to dark black Graphitic Argillite. Trace limonite occurs on fracture surfaces. Slightly stronger limonite on fracture surfaces from 44-49m. Quite graphitic 38-44m. Qtz veining occurs - no staining; more Qtz 44-46m. Pyrite is oxidized to MgO₂ (seen on limonite surfaces); fine-grained blebs; not seen elsewhere. Non-calcareous. From 42-44m almost graphitic gouge.</p>
49.00	60.00	<p>Siltstone (Steel Formation) C0, S1-S2, P4, tr Lm Light grey to dark grey and tan/orange Siltstone (Steel Formation). Limonite occurs pervasively on chips 50-54m; dominantly limonite only occurs on fracture surfaces. Non-calcareous; some tan/orange chips look like Siltstone (Earn Group) but not calcareous. Pyrite is trace and occurs as small blebs and specks of fine-grained oxidized to MgO₂ and FeO₂ combined. Qtz flooding occurs in lighter coloured Siltstone (Steel Formation). Note: Darker Siltstone (Steel Formation) hard to tell if MgO₂ occurs but no fresh or tarnished pyrite occurs and iron oxide isn't pyrite.</p>

*** END OF HOLE *** 60.00

HOLE NO: RC97-2013 SECTION: 24368.31 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SCHOONER
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	19/12/97
Date finished:	19/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	DYLAN VALLIANCOURT

*** COLLAR COORDINATES AND RL ***
 NOMINAL 18427.27mN 24368.31mE 910.26RL

Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	15.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
15.00	27.50	GRAPHITIC ARGILLITE
27.50	33.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
33.00	43.00	GRAPHITIC ARGILLITE
43.00	44.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
44.00	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	Colluvium
4.00	15.00	<p>Limonitic Altered Quartz Monzonite C1, S1-S2, P4, 2-3% Lm Medium orange to orange/brown Limonitic Altered Quartz Monzonite. Limonite is pervasive; stronger on fracture surfaces and from 4-6m. Biotite are completely altered to white mica or completely weathered out in some chips. Feldspars are strongly altered to clay. Pyrite is oxidized to MgO₂ fine-grained blebs predominantly. There are also specks of MgO₂ and iron oxide disseminated in some chips. Some chips have strong MgO₂ on fracture surfaces. Qtz flooding occurs; more intense in some chips 10-14m (colour is light orange). Slight reaction to HCl.</p>
15.00	27.50	<p>Graphitic Argillite C0, S1, P4, tr Lm Grey/black to dark black Graphitic Argillite. Note: quite graphitic and gougy material throughout interval so hard to see all chips because such a coating. Limonite is trace on fracture surfaces. Pyrite is not fresh or tarnish so if present completely altered to MgO₂. A littly bit of Qtz is seen as Qtz chips. Non-calcareous. Few chips of Limonitic Altered Quartz Monzonite for 20-22m.</p>
27.50	33.00	<p>Limonitic Altered Quartz Monzonite C1, S2, P4, 3% Lm Dark orange to orange/brown Limonitic Altered Quartz Monzonite. Pervasive limonite throughout interval with stronger limonite on fracture surfaces. Biotite and feldspar completely altered to white mica and clay respectively. Pyrite occurs as fine-grained MgO₂ blebs; dominantly on fracture surfaces.</p>
33.00	43.00	<p>Graphitic Argillite C0, S1, P4, tr Lm Dark grey black to dark black Graphitic Argillite. Same as 15-27.5m. Dark grey Siltstone (Steel Formation). Trace limonite on fracture surfaces. Non-calcareous. Medium soft. Trace Qtz veinlets (stained by limonite). Pyrite is trace but oxidized to MgO₂ and FeO₂ specks; disseminated. Interval has some slightly gougy material which "coats" chips and sticks chips together.</p>
43.00	44.00	<p>Limonitic Altered Quartz Monzonite C1, S2, P4, tr Lm Light orange Limonitic Altered Quartz Monzonite. Limonite is slightly pervasive but mostly just on fracture surfaces. Fairly siliceous by flooding. Pyrite is completely oxidized to MgO₂ and is fine-grained blebs; occurs on fracture surfaces predominantly. Biotite completely altered to white mica; feldspars are strongly altered to clay. Few Qtz chips (stained orange).</p>
44.00	50.00	<p>Graphitic Argillite C0, S1, P4, tr Lm Same as 15-27.5m. Less graphitic and no gouge.</p>

*** END OF HOLE *** 50.00

HOLE NO: RC97-2014 SECTION: 24368.31 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SCHOONER
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 40.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	19/12/97
Date finished:	19/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	DYLAN VALLIANCOURT & STEVE ERDMAN

*** COLLAR COORDINATES AND RL ***

NOMINAL	18441.33mN	24368.31mE	910.26RL
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Pre-collar depth: Final depth: 40.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	6.00	COLLUVIUM
6.00	16.00	LIMONITIC ALTERED QUARTZ MONZONITE
16.00	26.50	GRAPHITIC ARGILLITE
26.50	40.00	SILTSTONE (EARN GROUP)
40.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	6.00	Colluvium
6.00	16.00	<p>Limonitic Altered Quartz Monzonite C1, S2, P4, tr -1% Lm Light orange to medium orange/brown Limonitic Altered Quartz Monzonite. From 6-14m trace pervasive limonite on fracture surfaces and staining on feldspar. From 14-16m stronger pervasive limonite occurs with stronger on fracture surfaces also. Some surfaces have reddish limonite pervasive or just on a fracture surfaces. Biotite from 6-14m is weakly to moderately altered to white mica; feldspars are moderately altered to clay. From 14-16m biotite is strongly altered to clay. The pyrite throughout the interval is oxidized to MgO₂; fine-grained blebs and specks. Chips are flooded by Qtz and chips of Qtz in every interval. Note: From 9-13m contains limonitic gougy material.</p>
16.00	26.50	<p>Graphitic Argillite C0, S1, P4, tr Lm Dark grey/black to black Graphitic Argillite. Limonite occurs on some fracture surfaces and as staining on Qtz. Qtz chips and Qtz veinlets occur throughout interval. Pyrite is fine-grained specks or small blebs oxidized to MgO₂ (seen on Qtz and limonite surfaces) and perhaps elsewhere but cannot tell because of colour; there is also alot of dark grey clay "coating" from 20-26m with strong black grey material 24-26m. Quite graphitic especially 24-26m. There are a few shale chips in 22-24m which are very soft; perhaps clay coating is weathered down shale?</p>
26.50	40.00	<p>Siltstone (Earn Group) C0-C1, S1-S3, P4, tr Lm Light grey/tan to dark grey Siltstone (Earn Group). Trace limonite on fracture surfaces; on Qtz as staining and "coating" in some spots. From 30-36m contains the light grey and tannish Siltstone (Earn Group) chips; stronger limonite on fracture surfaces (dark orange/brown). These chips are also quite siliceous. Pyrite in all Siltstone (Earn Group) is fine-grained and oxidized to MgO₂ specks and small blebs or also oxidized to iron oxide specks. Trace FeO₂ and MgO₂ speck and blebs. Qtz flooding occurs as noted above; there are also Qtz chips and Qtz veinlets in the darker Siltstone (Earn Group). 40% Graphitic Argillite is black to dark grey. Trace limonite occurs on a few fracture surfaces and on the few Qtz veinlets and small Qtz chips in the interval 38-40m; there are a few chips in 30-32m that also have a few small Qtz veinlets. Pyrite is completely oxidized to MgO₂ or not present. Fairly graphitic but still fairly hard.</p>

*** END OF HOLE *** 40.00

HOLE NO: RC97-2015 SECTION:24394.04 GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SCHOONER
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 50.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	28/12/97
Date finished:	28/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	STEVE ERDMAN & DYLAN VALLIANCOURT

*** COLLAR COORDINATES AND RL ***
 NOMINAL 18395.78mN 24394.04mE 921.18RL

Pre-collar depth: Final depth: 50.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	17.00	LIMONITIC ALTERED QUARTZ MONZONITE
17.00	35.00	LIMONITIC ALTERED QUARTZ MONZONITE
35.00	50.00	GRAPHITIC ARGILLITE
50.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.00	Colluvium
4.00	17.00	<p>Limonitic Altered Quartz Monzonite C2, S1, P4, 2-3% Lm Medium-dark orange brown to medium-orange Limonitic Altered Quartz Monzonite. Pervasive limonite occurs throughout the interval with stronger limonite on fracture surfaces and as some "infill" limonite. Note: there is a limonitic clay "coating" throughout the interval; no gouge seen. Slightly darker and more limonite 4-8m. Biotite goes from weakly altered (almost Limonitic Quartz Monzonite) in about 5% of the chips to dominantly strongly altered to white mica. Feldspars are moderately to intensely altered to clay in all the intervals. Pyrite is dominantly fine-grained blebs that are completely oxidized to MgO₂; rimmed by dark brown limonite. There is also some small blebs of FeO₂ which were fine-grained pyrite. Some Qtz flooding has occurred and Qtz chips are visible in all the intervals. Moderate reaction to HCl.</p>
17.00	35.00	<p>Limonitic Altered Quartz Monzonite C2, S2, P4, tr. Lm Very light orange-grey LAQM; almost Altered Quartz Monzonite but too much pervasive limonite. Slight pervasive limonite occurs in areas of all chips and entirely in some. Some stronger limonite occurs on fracture surfaces. Biotite are weakly altered around the rims. There are a few biotite that are moderately altered but the core of the biotite is still unaltered. Feldspars are moderately altered to clay and a lot of them are stained by limonite. From 20-26m there is some chips of feldspar and an increase of feldspar in the chips. Pyrite is fine-grained and occurs as MgO₂ blebs (dominantly on fracture surfaces) and also occurs as FeO₂ blebs and specks; pyrite is trace. Qtz flooding occurs and also Qtz veinlets occur in a few chips; there is also Qtz chips in all the intervals. Chips are strongly reactive to HCl almost upon application.</p>
35.00	50.00	<p>Graphitic Argillite C0, S1, P4, tr. Lm Grey-black Graphitic Argillite. Limonite occurs on fracture surfaces and as staining on Qtz. Moderately graphitic. Slightly gougy throughout interval but gouge strong, 38-40m. Pyrite is fine-grained blebs which are oxidized to MgO₂ (seen as limonite and grey chips); hard to tell on black chips. There is also fine-grained pyrite specks and small blebs which are completely oxidized to FeO₂ (copper-colour). No reaction to HCl.</p>

*** END OF HOLE *** 50.00

HOLE NO: RC97-2016	SECTION:24331.04	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SCHOONER
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	36.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	28/12/97		
Date finished:	28/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	DYLAN VALLIANCOURT		

*** COLLAR COORDINATES AND RL ***

NOMINAL	18446.55mN	24331.04mE	908.74RL
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Pre-collar depth: Final depth: 36.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	4.00	COLLUVIUM
4.00	19.00	LIMONITIC ALTERED QUARTZ MONZONITE
19.00	36.00	GRAPHITIC ARGILLITE
36.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	Colluvium
4.00	19.00	<p>Limonitic Altered Quartz Monzonite C1-C2, S2, P4, tr. Lm Light orange/grey to medium orange/brown Limonitic Altered Quartz Monzonite. Orange/brown colour 4-12m and lighter colour 12-19m. Limonite is pervasive (especially 4-12m) and stronger on fracture surfaces and on Qtz and feldspars. Biotite are completely altered to white mica from 4-12m and from 12-19m, the biotite are weakly altered to moderately altered to white mica around the biotite grain. Feldspars are moderately altered to clay and stained by limonite. Note, that more feldspar is increased from 12-18m; including chips. Pyrite is fine-grained and occurs as blebs of MgO₂, especially on fracture surfaces. There are also some specks of FeO₂ which was fine-grained pyrite. Qtz flooding occurs; a little stronger from 12-19m and strong from 12-19m. Note: there is copper-coloured limonite rimming, MgO₂ blebs on some chips.</p>
19.00	36.00	<p>Graphitic Argillite C0, S1, P4, tr. Lm Grey to black Graphitic Argillite. Limonite occurs on fracture surfaces; trace. Moderate to strongly graphitic. Gougy throughout interval but strong gouge, slightly limonitic (red), 30-32m. Pyrite is not seen or absent; can't see on chips and limonite so trace can't see any on the fractures. No reaction to HCl. Trace Qtz veinlets on some chips throughout interval.</p>

*** END OF HOLE *** 36.00

HOLE NO: RC97-2017	SECTION:24259.86	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SCHOONER
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	66.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	28/12/97		
Date finished:	28/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	DYLAN VALLIANCOURT & STEVE ERDMAN		

*** COLLAR COORDINATES AND RL ***

NOMINAL	18425.55mN	24259.86mE	909.88RL
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Pre-collar depth: Final depth: 66.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	7.00	COLLUVIUM
7.00	10.00	LIMONITIC ALTERED QUARTZ MONZONITE
10.00	12.50	GRAPHITIC ARGILLITE
12.50	17.00	LIMONITIC ALTERED QUARTZ MONZONITE
17.00	35.00	GRAPHITIC ARGILLITE
35.00	38.50	LIMONITIC ALTERED QUARTZ MONZONITE
38.50	46.00	GRAPHITIC ARGILLITE
46.00	48.50	GRAPHITIC ARGILLITE
48.50	50.00	LIMONITIC ALTERED QUARTZ MONZONITE
50.00	56.50	GRAPHITIC ARGILLITE
56.50	59.00	LIMONITIC ALTERED QUARTZ MONZONITE
59.00	66.00	GRAPHITIC ARGILLITE
66.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	7.00	Colluvium
7.00	10.00	<p>Limonitic Altered Quartz Monzonite C1, S1, P4, 1% Lm Medium orange/brown Limonitic Altered Quartz Monzonite. Pervasive limonite occurs with stronger limonite on fracture surfaces, as "infill" in some pits and staining on Qtz and feldspars. The biotite is weak to completely altered to white mica. Dominantly completely altered and stained by limonite. Pyrite is oxidized to Mg02, fine-grained and blebs. There is also some very fine-grained specks of copper-coloured/red Fe02 on some fracture surfaces. Some Qtz flooding has occurred. Weak to moderate reaction to HCl after a while.</p>
10.00	12.50	<p>Graphitic Argillite C0-C1, S2, P4, tr Lm Dark grey/black to black Graphitic Argillite. Limonite occurs on fracture surfaces as yellow/orange to red/orange. Fairly siliceous; lots of Qtz veinlets. Non-calcareous. Pyrite is fine-grained blebs of Mg02 and small specks and small blebs oxidized to Fe02. Fairly hard to extremely hard. 25% medium grey Siltstone (Earn Group). Slightly calcareous. Trace limonite occurs on fracture surfaces (yellow/orange). Pyrite is very fine grained specks oxidized to Fe02 and some are not completely oxidized, more tarnished. Some Qtz flooding has occurred.</p>
12.50	17.00	<p>Limonitic Altered Quartz Monzonite C1, S1, P4, 2% Lm Medium to dark orange/brown Limonitic Altered Quartz Monzonite. Pervasive limonite occurs; stronger limonite on fracture surfaces and is darker, also stronger as "infill" in pits. Biotite is completely altered to white mica and feldspar is intensely to completely altered to clay. Pyrite occurs as fine-grained blebs of Mg02, quite a lot of Mg02 especially on fracture surfaces and few chips almost completely Mg02. Also some small very fine-grained Fe02 specks. Trace Qtz flooding and Qtz chips also occur. Weak reaction to HCl.</p>
17.00	35.00	<p>Graphitic Argillite C0, S1, P4, tr. Lm Dark grey/black to black Graphitic Argillite. Trace limonite occurs on some fracture surfaces and as staining on the trace Qtz veinlets seen. Fairly hard to extremely hard. Pyrite is absent or completely oxidized to Mg02. No Fe02 seen or fresh pyrite, and no Mg02 seen on trace Qtz. Non-calcareous. Note: From 16-24m gougy and trays are 1/4 to 1/2 filled and chips stuck together. Also 16-24m is more graphitic than 24-35m.</p>
35.00	38.50	<p>Limonitic Altered Quartz Monzonite C1, S1, P4, 1% Lm Same as 12.5-17m; only little moderate limonite and the Mg02 is not as abundant. Also feldspars are only moderately altered to clay and there is a few feldspar chips.</p>
38.50	46.00	<p>Graphitic Argillite C0, S1, P4, tr Lm Dark grey/black to black Graphitic Argillite. Limonite occurs on fracture surfaces. Fairly hard. Qtz veinlets seen and are slightly stained by limonite. Non-calcareous. Pyrite is absent or completely oxidized to Mg02; not seen. Slightly more Qtz seen 40-44m about 5% of chips are Qtz chips, no pyrite or Mg02 seen on Qtz. Slightly graphitic.</p>
46.00	48.50	<p>Graphitic Argillite C0, S0-S1, P4, tr Lm Graphitic Argillite is same as 38.5-46m. 40% medium-light grey Shale. Non-calcareous. Little limonite seen SST; just a small bit on a few fracture surfaces. No Qtz seen and no flooding. Pyrite is absent or very fine and oxidized to Mg02 can't see any black or fresh even with light colour.</p>
48.50	50.00	<p>Limonitic Altered Quartz Monzonite Same as 12.5-17m. Difference is less Mg02 seen.</p>
50.00	56.50	<p>Graphitic Argillite C0, S1, P4, tr Lm Same as 46-48m. Slightly more limonite on fracture surfaces of both the Graphitic Argillite & Siltstone (Steel Formation). There is also some limonite specks (very small) which could be pyrite which is oxidized to Fe02.</p>
56.50	59.00	<p>Limonitic Altered Quartz Monzonite C1, S3, P4, tr. Lm Tan orange Limonitic Altered Quartz Monzonite with medium orange limonite on fractures and as some "infill" pits. Biotite are completely altered to white mica. Feldspars have probably been completely altered to clay and been weathered out. Chips are very siliceous with them looking like a Qtz matrix with white mica & limonite. Pyrite is fine-grained blebs which are completely oxidized to Mg02. Weak reaction after about 20 seconds.</p>

From	To	Geological Log
59.00	66.00	Graphitic Argillite C0-C1, S1, P4, tr -1% Lm Graphitic Argillite and Siltstone (Steel Formation) same as 50-56.5m. 40% Limonitic Altered Quartz Monzonite same as 56.5-59m. Limonitic Altered Quartz Monzonite from 64-66m has a little bit redder limonite colouring, making the chips almost pink.

*** END OF HOLE *** 66.00

HOLE NO: RC97-2018	SECTION:24284.28	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SCHOONER
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00	66.00	5.25
Drill contractor:	MIDNIGHT SUN		
Drill rig:	SCHRAMM		
Date started:	28/12/97		
Date finished:	28/12/97		
Logged by:	LISA JAMRICH		
Relogged by:			
Sampled by:	STEVE ERDMAN		

*** COLLAR COORDINATES AND RL ***

NOMINAL	18405.12mN	24284.28mE	919.59RL
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Pre-collar depth: Final depth: 66.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	5.00	COLLUVIUM
5.00	31.00	LIMONITIC ALTERED QUARTZ MONZONITE
31.00	32.50	GRAPHITIC ARGILLITE
32.50	34.00	LIMONITIC ALTERED QUARTZ MONZONITE
34.00	48.50	GRAPHITIC ARGILLITE
48.50	52.50	LIMONITIC ALTERED QUARTZ MONZONITE
52.50	59.00	GRAPHITIC ARGILLITE
59.00	66.00	ALTERED QUARTZ MONZONITE
66.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	5.00	Colluvium
5.00	31.00	<p>Limonitic Altered Quartz Monzonite C1-C2, S1-S2, P4, 1-3%Lm Medium orange/grey to dark orange/brown Limonitic Altered Quartz Monzonite. Limonite is pervasive throughout the interval. Limonite also occurs on fracture surfaces (orange/brown) and as "infill" in pits and "coatings" on some chips. Limonite from 8-10m is weakly altered to white mica around rims of biotite; the rest of the interval the biotite is strongly to completely altered to white mica; from 14-18m the white mica is weathered out or is less abundant. Feldspar throughout the interval is moderately to strongly altered to clay. Pyrite is fine-grained blebs oxidized to Mangonese oxide; especially on fracture surfaces. From 12-14m, there is copper/red colour around some of the Mg02 blebs. Throughout entire interval there is a few specks of pyrite that has been oxidized to Fe02; very trace amount. There is some Qtz flooding found in entire interval with an increase 14-20m. There are Qtz chips 16-18m, 18-20m, 20-24m. The interval is slightly more calcareous at top and then because slightly less calcareous from 14-31m.</p>
31.00	32.50	<p>Graphitic Argillite C0, S0, P4, tr Lm Grey/black to black Graphitic Argillite. Very trace limonite on fracture surfaces. Quite graphitic. Non-calcareous. Slightly gougy "coating" on chips. Pyrite is absent or completely oxidized to Mg02. No Qtz seen.</p>
32.50	34.00	<p>Limonitic Altered Quartz Monzonite C1, S1, P4, 1% Lm Medium orange Limonitic Altered Quartz Monzonite. Limonite is pervasive and is stronger on fracture surfaces, "infill" in pits. Biotite are completely altered to white mica and feldspar are strongly altered to clay. Pyrite are fine-grained blebs oxidized to Mg02. Pyrite is also fine-grained blebs and specks oxidized to Fe02. Some Qtz flooding occurs. Weak reaction to HCl. There are a few small blood-red blebs on a few chips.</p>
34.00	48.50	<p>Graphitic Argillite C0, S1, P4, tr Lm Same as 31-32m; gougy "coating" groes from 34-44m and there is Qtz veinlets throughout the interval; Qtz chips 42-44m and 46-48m.</p>
48.50	52.50	<p>Limonitic Altered Quartz Monzonite C1, S1, P4, 1% Lm Medium orange/grey to dark orangish/red Limonitic Altered Quartz Monzonite. Limonite is pervasive throughout interval with stronger limonite on fracture surfaces and as "staining" on feldspars. From 48.5-50m dark colour, from 50-52.5m orange/grey colour. Biotite from 48.5-50m is intensely altered to white mica; from 50-52.5 biotite is weakly altered to white mica. Feldspars are also intensely altered and moderately altered to clay respectively. Pyrite is fine-grained blebs oxidized to Mg02. From 48.5-50m the pyrite is fine-grained blebs and specks which are also altered to Fe02 as well as Mg02. There is Qtz flooding and Qtz chips in both intervals. Slightly calcareous. From 48.5-50m there is a reddish coloured limonite and copper-coloured Fe02 from pyrite; perhaps a few specks of blood-red also.</p>
52.50	59.00	<p>Graphitic Argillite C0, S0-S1, P4, tr Lm Graphitic Argillite same as 31-32m. Except no gougy "coating", a bit more limonite on fractures and a trace of Qtz. 20% dark-medium grey Shale. Non-calcareous. No limonite on chips, except for weathering inside (slight orangish colour in some chips when broken open). Pyrite absent or very trace oxidized to Mg02. No Qtz seen on Shale chips.</p>
59.00	66.00	<p>Altered Quartz Monzonite C2, S2, P4, tr Lm Light grey to medium grey Altered Quartz Monzonite. Trace limonite stains the Altered Quartz Monzonite chips. Biotite are weakly to completely altered to white mica; large biotite are weakly, small biotite are completely. Feldspars are moderately to strongly altered to clay. Pyrite is trace but fine-grained and oxidized to Mg02; small blebs and specks. Moderately to strongly flooded by Qtz. Moderate reaction to HCl. 40% light/medium Limonitic Quartz Monozite. Limonite pervasive with some stronger limonite on fracture surfaces. Biotite completely altered to white mica and feldspars strongly altered to clay. Pyrite is trace and is oxidized to Mg02; small blebs. Reacts to HCl strong to moderately. Slightly to moderately flooded by Qtz. A few chips of feldspar seen but break up easily.</p>

*** END OF HOLE *** 66.00

HOLE NO: RC97-2019 SECTION:24228.82 GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SCHOONER
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 60.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	28/12/97
Date finished:	28/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	DYLAN VALLIANCOURT

*** COLLAR COORDINATES AND RL ***
 NOMINAL 18406.26mN 24228.82mE 916.11RL

Pre-collar depth: Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation >EOH
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	6.00	COLLUVIUM
6.00	11.00	COLLUVIUM
11.00	18.00	LIMONITIC ALTERED QUARTZ MONZONITE
18.00	20.50	LIMONITIC ALTERED QUARTZ MONZONITE
20.50	31.00	LIMONITIC ALTERED QUARTZ MONZONITE
31.00	47.00	GRAPHITIC ARGILLITE
47.00	51.50	LIMONITIC ALTERED QUARTZ MONZONITE
51.50	60.00	GRAPHITIC ARGILLITE
60.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	6.00	Colluvium
6.00	11.00	Colluvium
11.00	18.00	<p>Limonitic Altered Quartz Monzonite C1, S1, P4, 1% Lm Orange/brown to orange/red-brown Limonitic Altered Quartz Monzonite. Pervasive limonite throughout interval; stronger reddish/brown and brownish limonite on fracture surfaces and "coatings". Biotite from 11-16m is weakly altered to completely altered to white mica; from 16-18m biotite is completely altered throughout interval and also trace. Pyrite is fine-grained blebs oxidized to MgO₂; pyrite is also fine-grained blebs oxidized to FeO₂. The MgO₂ blebs are less than the FeO₂ blebs. There are also FeO₂ stringers. The FeO₂ is copper/red colour. There is some Qtz flooding in all intervals and 16-18m there are more Qtz chips (barren). There is a weak reaction to HCl throughout interval. Note: there is chips in all intervals that have a pink hue.</p>
18.00	20.50	<p>Limonitic Altered Quartz Monzonite C2, S2, P4, tr Lm Orange/brown Limonitic Altered Quartz Monzonite. Pervasive limonite throughout with slightly intense limonite on fracture surfaces and as "infill" in pits (coating). Biotite is weakly to moderately altered to white mica. Feldspars are weakly to moderately altered to clay. Pyrite is fine-grained blebs oxidized to manganese oxide; dominantly on fracture surfaces. Moderate to strong reaction to HCl. Some Qtz flooding has occurred. Note: biotite in both Limonitic Altered Quartz Monzonite and Altered Quartz Monzonite is quite abundant.</p>
20.50	31.00	<p>Limonitic Altered Quartz Monzonite C2, S2, P4, 1% Lm Medium orange to orange/brown Limonitic Altered Quartz Monzonite. Limonite is pervasive with 20-24m is medium orange and 24-31m is orange/brown. There is some stronger limonite on fracture surfaces. Biotite is completely altered to white mica and feldspar is moderately altered to clay. Note: From 24-26m and 30-32m there are a few chips where biotite is weakly altered to white mica. From 28-30m there is slightly more MgO₂ found on fracture surfaces. Qtz flooding is seen and slightly more 20.5-24m. Qtz chips also appear throughout interval. Few chips of grey Qtz or highly silicified Graphitic Argillite or Siltstone (Earn Group) from 24-26m. Weak reaction on some chips but dominantly a moderate reaction to HCl. Pyrite is fine-grained blebs which are oxidized to MgO₂.</p>
31.00	47.00	<p>Graphitic Argillite C0, S1, P4, tr Lm Dark grey/black to black Graphitic Argillite. Very trace limonite on some fracture surfaces. Note: From 32-42m gougy coating and gouge found from 34-40m. Pyrite is absent or oxidized to MgO₂. No limonite specks or fresh pyrite. Trace Qtz veinlets in some chips and Qtz chips seen 40-46m. Non-calcareous. Dark grey shale. No limonite seen on shale except very trace. No pyrite seen on shale, perhaps small MgO₂ specks but can't see MgO₂ blebs, limonite specks or fresh pyrite. No Qtz seen on shale chips and non-calcareous. Note: the gougy coating is graphitic.</p>
47.00	51.50	<p>Limonitic Altered Quartz Monzonite C1, S1, P4, 2% Lm Dark orange Limonitic Altered Quartz Monzonite. Pervasive limonite and stronger on fracture surfaces, and "infill" in pits. Biotite are weakly altered on a few chips and mostly strongly to completely altered to white mica. Feldspar is intensely altered to clay. Note: biotite is less abundant and feldspar is more abundant. There is also some biotite that have white mica alteration but underneath there is also limonite weathering out biotite. Weak reaction to HCl, can hear it but soaks into chips. Slight Qtz flooding and seen like some Qtz eyes also (Qtz not stained).</p>
51.50	60.00	<p>Graphitic Argillite C0, S1, P4, tr Lm Dark grey/black to black Graphitic Argillite. Slightly graphitic. Limonite occurs as yellow-orange limonite on fracture surfaces. Trace Qtz veinlets and Qtz chips occur. Pyrite is absent or completely oxidized to MgO₂. Small blebs of fine-grained MgO₂ seen on some limonite. No reaction to HCl.</p>

*** END OF HOLE *** 60.00

HOLE NO: RC97-2020 SECTION: 22877 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 100.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	14/10/97
Date finished:	15/10/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	DYLAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19594.07mN 22877.35mE 840.17RL

Pre-collar depth: 100 Final depth: 100.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: NONE

Material left in hole: NONE
 Base of complete oxidation 38
 Top of fresh rock: 76
 Water first encountered: >EOH
 Water inflow estimate: NA

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	6.00	LIMONITIC ALTERED QUARTZ MONZONITE
6.00	8.00	LIMONITIC ALTERED QUARTZ MONZONITE
8.00	12.00	LIMONITIC ALTERED QUARTZ MONZONITE
12.00	30.00	LIMONITIC ALTERED QUARTZ MONZONITE
30.00	31.00	LIMONITIC ALTERED QUARTZ MONZONITE
31.00	36.00	LIMONITIC ALTERED QUARTZ MONZONITE
36.00	54.00	GRAPHITIC ARGILLITE
54.00	76.00	ALTERED QUARTZ MONZONITE
76.00	100.00	GRAPHITIC ARGILLITE
100.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	6.00	<p>Limonitic Altered Quartz Monzonite 80:20 Altered Quartz Monzonite C1, S0, P4,P1, tr py, 5% Lm dull brown Limonitic Altered Quartz Monzonite has moderate limonite alteration ;strongest 0-2, and less intense 2-6. Biotite has mostly altered to white micas which are usually coated with limonite ; rare very fine grained tarnished py within biotite pseudomorphs . Few black moderately altered biotite in 2-6 . Feldspar are mostly unaltered, or feldspar may occur weakly to moderately clay altered and limonite stained. Blue grey Altered Quartz Monzonite with limonite on many fracture surface has white micas ; or moderately altered black biotite 2-6. Abundant manganese oxide from intensely oxidized py on Limonitic Altered Quartz Monzonite , and trace tarnished py on Altered Quartz Monzonite .</p>
6.00	8.00	<p>Limonitic Altered Quartz Monzonite C2, S0, P4-P3, tr py, 3% Lm Tan colored Limonitic Altered Quartz Monzonite has very weak limonite alteration. Biotite has altered to white micas, or limonite . Weakly or moderately clay altered feldspar are stained light orange with limonite . Abundant manganese oxide from intensely or strongly oxidized py .</p>
8.00	12.00	<p>Limonitic Altered Quartz Monzonite 80:20 Quartz Monzonite C2, S1, P4-P3, tr py, 3% Lm Tan colored Limonitic Altered Quartz Monzonite as above unit ; very weak limonite alteration, biotite altered to white mica or limonite ,and moderately clay altered feldspar that are stained with limonite . Manganese oxide from intensely or strongly oxidized py . Blue grey Altered Quartz Monzonite has strongly altered biotite ; less altered 10-12 and biotite occurs weakly or moderately altered. Quartz Monzonite silicified with translucent quartz chips. Unit has an immediate , moderate reaction to HCl.</p>
12.00	30.00	<p>Quartz Monzonite 90:10 Limonitic Quartz Monozite C2, S1, P4, tr Lm blue grey Quartz Monzonite has mostly fresh black biotite , is moderately calcareous , and no sulphides. It is interbedded with Limonitic Quartz Monozite that has very weak limonite alteration. Biotite is mostly unaltered, and feldspar are weakly to moderately clay altered and lightly stained with limonite . Traces of manganese oxide on fracture surface from intensely oxidized py. Limonitic Quartz Monozite is concentrated at upper and lower contacts, and 18-20.</p>
30.00	31.00	<p>Limonitic Altered Quartz Monzonite 90:10 Altered Quartz Monzonite C1, S0, P4-P3, P1-P0, 1% py, 4% Lm Medium orange / brown Limonitic Altered Quartz Monzonite has pervasive limonite alteration. Biotite has altered to white micas that are mostly coated with limonite , or have altered to fine grained py that is strongly or intensely oxidized to manganese oxide. Fine grained py on fracture surface has intensely oxidized to manganese oxide. Light grey Altered Quartz Monzonite has white micas, occasionally with fresh or tarnished py on outer edges of mica. Fine grained py also occurs mostly fresh, or tarnished . Unit is weakly calcareous .</p>
31.00	36.00	<p>Limonitic Altered Quartz Monzonite 60:40 Altered Quartz Monzonite C2, S0, P4, 3% Lm Limonitic Altered Quartz Monzonite here has moderate limonite alteration which weakens with depth. Fld are mostly unaltered , however few chips 32-34 have intensely argillic alteration and chips are easily crushed. Abundant manganese oxide from intensely oxidized py . Dark grey Altered Quartz Monzonite has white micas, or moderately altered biotite . Unit has an immediate and moderate reaction to HCl.</p>
36.00	54.00	<p>Graphitic Argillite 60:40 Graphitic Shale C0, S1, P1-P0, 1% py, tr Lm Black argillite is very graphitic and soft; harder and less graphitic where silicified with white quartz stock work , or quartz flooding in fracture spaces. Limonite on fracture surface at upper contact ; traces of limonite on outer edges of stock work throughout but rock otherwise is unweathered. Traces of coarse grained py, fresh or tarnished , on fracture surface , or coating entire chips. Argillite is interbedded with soft graphitic shale, occasionally with very fine grained disseminated tarnished py .</p>
54.00	76.00	<p>Altered Quartz Monzonite C1, S0-S1, P3-P2, P0, 1% py Altered Quartz Monzonite is med grey at upper contact and becomes lighter with depth. Argillic alteration of feldspar increases with depth and below 64m there is strong clay alteration of 1/3 chips ; they are easily crushed. Weak alteration of Altered Quartz Monzonite 66-68 ; there is black biotite here. Fine grained py throughout is strongly or moderately oxidized to manganese oxide, or strongly oxidized to iron oxide. Coarse grained py is unoxidised. Below 70m unit is silicified with translucent or light grey quartz stock work, or quartz flooding. Most quartz is at</p>

From	To	Geological Log
		bottom contact 74-76. 25% chips appear a dark grey and have very fine grained fresh or tarnished py on outer edges of white mica. 58-60 minor unit argillite and barite with very fine grained fresh py.
76.00	100.00	Graphitic Argillite 50:50 Graphitic Shale C0, S1, P0, 2% py Graphitic argillite is interbedded with graphitic shale. Minor white quartz stock work throughout, and no limonite . Fine grained and coarse grained py is on fracture surface , or in veinlets . It is mostly fresh, or rarely tarnished .

*** END OF HOLE *** 100.00

HOLE NO: RC97-2021 SECTION: 22817 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 112.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	21/10/97
Date finished:	22/10/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	STEVE E

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19636.41mN 22817.33mE 835.01RL

Pre-collar depth: 112 Final depth: 112.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: INTERMITTENT WATER BELOW 74M

Material left in hole: NONE
 Base of complete oxidation 37
 Top of fresh rock: 102
 Water first encountered: 87
 Water inflow estimate: NA

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	1.00	COLLUVIUM
1.00	7.00	LIMONITIC ALTERED QUARTZ MONZONITE
7.00	15.00	ALTERED QUARTZ MONZONITE
15.00	37.00	GRAPHITIC ARGILLITE
37.00	64.00	ALTERED QUARTZ MONZONITE
64.00	66.00	QUARTZ MONZONITE
66.00	68.00	ALTERED QUARTZ MONZONITE
68.00	72.00	GRAPHITIC SHALE
72.00	102.00	ALTERED QUARTZ MONZONITE
102.00	112.00	GRAPHITIC SHALE
112.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	1.00	Colluvium Overburden
1.00	7.00	Limonitic Altered Quartz Monzonite C1, S0, P4-P3,P1, 1% py, 5% Lm Light and medium orange / brown Limonitic Altered Quartz Monzonite with weak, or moderate limonite alteration. Biotite has altered to patchy limonite , and feldspar alteration is weak 0-2, and gets stronger with depth. 4-6 feldspar phenocrysts are strongly altered to soft white clay. Unit has 3% disseminated cube py. 0-4 most are tarnished , or may be strongly oxidized to iron oxide . 4-7 most are strongly or intensely oxidized . Fine grained py py is mostly intensely , or strongly oxidized to manganese oxide. Unit has an immediate, weak reaction to HCl.
7.00	15.00	Altered Quartz Monzonite 60:40 Limonitic Altered Quartz Monzonite C1, S0, P3-P1, 1% py, 4% Lm Light grey Altered Quartz Monzonite has limonite on many fracture surface , and biotite altered to limonite or a buff colored mica. It is interbedded with Limonitic Altered Quartz Monzonite with very weak limonite alteration. Limonite sometimes much stronger on some fracture surface . There are few translucent quartz chips, and Altered Quartz Monzonite appears very siliceous. Fine grained py is strongly or moderately oxidized to manganese oxide, and cube py is fresh or tarnished . Unit has an immediate, weak reaction to HCl.
15.00	37.00	Graphitic Argillite C1, S1, P4, P0, tr py, 1% Lm Argillite is very graphitic and somewhat soft; locally much harder where silicified with white quartz stock work , and quartz flooding of fracture spaces. Bright orange limonite is on many fracture surface to a depth of 32m ; only traces of limonite below that and fine grained disseminated py , and coarse grained py on fracture surface is fresh. Very weak and delayed reaction to HCl
37.00	64.00	Altered Quartz Monzonite C1, S0-S1, P3-P2, P0, 2% py, tr Sb Medium grey Altered Quartz Monzonite has no limonite . It is minz. with 5% fine grained and coarse grained py that is fresh and unoxidized to a depth of 40m. Below that fine grained py is mostly strongly, or moderately oxidized to manganese oxide. Coarse grained and cube py remains fresh. Below 50m mineralized decreases to 1%, and fine grained is more likely to be moderately oxidized . Coarse grained and cube py is fresh. Feldspar are unaltered to 50m ; below that they may occur moderately to strongly altered. Unit weakly silicified 37-40, and 54-58 with dark grey quartz chips. Stibnite in this quartz 54-58. Weakly calcareous .
64.00	66.00	Quartz Monzonite C2, S1 dark grey Quartz Monzonite has black biotite that is moderately to strongly alter to white mica. Chips very siliceous and hard , except where localized intense alteration of feldspar reduces Quartz Monzonite to a pasty mass. No sulphides.
66.00	68.00	Altered Quartz Monzonite C1, S0, P2, P0, 1% py Light grey or tan colored Altered Quartz Monzonite has white or buff colored micas. Feldspar phenocrysts are strongly altered to a soft white clay. Fine grained py has mostly moderately oxidized to manganese oxide or limonite, or rarely strongly oxidized . Coarse grained py is fresh. Weakly calcareous .
68.00	72.00	Graphitic Shale C0, S1, P1-P0 tr py Dark grey shale is graphitic, and interbedded with Graphitic Argillite . No limonite . Unit is weakly silicified with white quartz stock work . Fine grained py on fracture surface , or in veinlets is tarnished , or fresh .
72.00	102.00	Altered Quartz Monzonite C1, S0, P2-P3, P0, tr py Light grey Altered Quartz Monzonite has been mineralized with up to 5% fine grained disseminated py that is mostly moderately oxidized , or may be strongly oxidized , to manganese oxide. Coarse grained py is fresh. Biotite has altered to white mica, and feldspar are weakly altered to 86m ; below that feldspar are moderately altered or sometimes intensely altered to a soft white clay.
102.00	112.00	Graphitic Shale C1, S0, P0, tr py Dark grey shale is interbedded with Graphitic Argillite . Trace fine grained py on one fracture surface is fresh. Unit is weakly calcareous .

*** END OF HOLE *** 112.00

HOLE NO: RC97-2022 SECTION: 22756 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 106.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	22/10/97
Date finished:	22/10/97
Logged by:	J HANSON
Relogged by:	
Sampled by:	DYLAN

*** COLLAR COORDINATES AND RL ***
 SURVEYED 19653.50mN 22756.41mE 828.20RL

Pre-collar depth: 106 Final depth: 106.00
 Purpose of hole: EXPLORATION
 Hole status: DRILLED TO DEPTH
 Comments: HAMMER PLUGGED AT 57

Material left in hole: NONE
 Base of complete oxidation 24
 Top of fresh rock: 99
 Water first encountered: 46
 Water inflow estimate: 5 GPM

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	6.00	LIMONITIC ALTERED QUARTZ MONZONITE
6.00	24.00	GRAPHITIC SHALE
24.00	32.00	ALTERED QUARTZ MONZONITE
32.00	40.50	GRAPHITIC ARGILLITE
40.50	48.00	ALTERED QUARTZ MONZONITE
48.00	50.00	GRAPHITIC ARGILLITE
50.00	69.00	ALTERED QUARTZ MONZONITE
69.00	86.00	ALTERED QUARTZ MONZONITE
86.00	99.00	ALTERED QUARTZ MONZONITE
99.00	106.00	GRAPHITIC ARGILLITE
106.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.00	Colluvium Overburden
2.00	6.00	Limonitic Altered Quartz Monzonite C1, S0, P4, P0, tr py, 6% Lm Medium orange / brown Limonitic Altered Quartz Monzonite with moderate limonite alteration, more intense on fracture surface . Biotite has altered to silvery micas which are mostly coated with limonite . Feldspar are mostly unaltered, however few chips have intensely clay alteration and are easily crushed. Abundant manganese oxide from intensely oxidized pyrite. Immediate, weak reaction to HCl over chip surfaces.
6.00	24.00	Graphitic Shale 70:30 Graphitic Argillite C0, S1, P4, P3, tr py, tr Lm Dark grey graphitic shale is somewhat soft, and is interbedded with graphitic argillite. Bright orange limonite coats some fracture surface of both shale and argillite, occasionally with very fine grained fresh pyrite visible beneath the limonite , to a depth of 18m ; below that there is only trace limonite. Very weak silicification from white quartz stock work .
24.00	32.00	Altered Quartz Monzonite C1, S0, P2-P0, 3% py, tr Lm Mixture of light grey and medium grey Altered Quartz Monzonite with traces of limonite on fracture surface at the bottom contact. There are few remaining white micas. Clay alteration of feldspar increases with depth and below 28m feldspar phenocrysts are moderately to strongly altered to white or limonite stained clay. At upper contact most fine grained pyrite is tarnished , or fresh. Below 26m extremely fine grained disseminated pyrite , and fine grained pyrite is moderately oxidized to manganese oxide. 3% fine grained and coarse grained pyrite also occurs tarnished , or fresh. Very weak reaction to HCl ; this increases slightly with depth.
32.00	40.50	Graphitic Argillite C0, S0, P0, tr py Graphitic argillite is rather soft. There is no limonite , and trace blebs of coarse grained pyrite are fresh.
40.50	48.00	Altered Quartz Monzonite C1, S1, P2-P0, 2% py, tr Sb Light grey Altered Quartz Monzonite with minor unit graphitic argillite 42-44. No remaining micas, and feldspar are moderately altered to white clay. Stibnite chips 40-42. Most fine grained py is moderately oxidized to manganese oxide , and remainder, as well as 2% coarse grained py is tarnished or fresh. Very weakly silicified with clear quartz eyes, and clear quartz chips. Immediate, weak reaction to HCl.
48.00	50.00	Graphitic Argillite C1, S1, P0, 5% py, tr Lm Dark grey graphitic argillite is rather soft, and has white quartz stock work and chips, few with reddish limonite on outer edges. Fine grained and coarse grained bleb pyrite is fresh, as well as few chips with very fine grained disseminated pyrite. Coarse grained cubic pyrite is within white quartz veinlets . Chips are weakly calcareous .
50.00	69.00	Altered Quartz Monzonite C1, S1, P2-P0, 3% py, tr Sb Medium grey Altered Quartz Monzonite appears weakly quartz flooded, and there are rare quartz eyes, and clear quartz chips or veinlets occasionally with stibnite, or flooded with very fine grained py . Few remaining micas, and feldspar are mostly unaltered. Unit is mineralized with at least 3% fine grained , and coarse grained pyrite. The fine grained py is mostly moderately oxidized to manganese oxide, or may also occur tarnished or fresh. The coarse grained py is fresh. Very weakly calcareous . Minor units of graphitic argillite to 56m.
69.00	86.00	Altered Quartz Monzonite C1-C2, S0, P2, tr py, tr Lm Tan colored Altered Quartz Monzonite has traces of limonite which increases with depth. 69-74 feldspar are strongly clay altered and chips are brittle and easily broken. Feldspar mostly unaltered below that. At upper contact biotite pseudomorphs are dark grey ; below that are buff colored. Most limonite is 80-84 and chips are moderately calcareous here ; weakly calcareous elsewhere. 1% fine grained py is mostly moderately oxidized to manganese oxide, rarely strongly oxidized . Rare coarse grained py is fresh. Minor unit graphitic argillite at upper contact.

From	To	Geological Log
86.00	99.00	Altered Quartz Monzonite C1, S0, P2-P0, 2% py, tr Lm Light grey Altered Quartz Monzonite has few remaining silvery micas, and feldspar are mostly unaltered ; localized moderate argillic alteration of feldspar in chips. Traces of bright green mineral (fuchsite ?) throughout ; most at bottom contact. 10% chips throughout have traces of limonite . Altered Quartz Monzonite mineralized with up to 3% former fine grained py that has been mostly moderately oxidized , and rarely strongly oxidized . 88-94 fine grained py mostly tarnished , with few moderately oxidized . Coarse grained py is fresh , or tarnished . Chips are weakly calcareous .
99.00	106.00	Graphitic Argillite C0, S1, P0, 1% py Graphitic argillite has white quartz stock work , and bleb fine grained fresh py . No limonite .

*** END OF HOLE *** 106.00

HOLE NO: RC97-2023 SECTION: 22756.85 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 130.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	31/12/97
Date finished:	31/12/97
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	DYLAN VALLIANCOURT

*** COLLAR COORDINATES AND RL ***
 NOMINAL 19607.13mN 22756.85mE 816.78RL

Pre-collar depth: Final depth: 130.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation 120
 Top of fresh rock: >EOH
 Water first encountered: >EOH
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00 12.00 COLLUVIUM
 12.00 22.00 SILTSTONE (STEEL FORMATION)
 22.00 25.00 LIMONITIC ALTERED QUARTZ MONZONITE
 25.00 57.50 GRAPHITIC ARGILLITE
 57.50 86.00 ALTERED QUARTZ MONZONITE
 86.00 98.00 GRAPHITIC ARGILLITE
 98.00 103.00 ALTERED QUARTZ MONZONITE
 103.00 105.50 GRAPHITIC ARGILLITE
 105.50 121.00 ALTERED QUARTZ MONZONITE
 121.00 128.50 GRAPHITIC ARGILLITE
 128.50 130.00 CHERT
 130.00 END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	12.00	Colluvium Graphitic Argillite, Siltstone (Steel Formation), Limonitic Altered Quartz Monzonite, mud & organics
12.00	22.00	Siltstone (Steel Formation) C0, S0-S1, P4, tr Lm Medium grey Siltstone (Steel Formation). Non-calcareous. Trace limonite on a few fracture surfaces and small specks in some chips when broken open; speck must also be on a fracture surface plane of weakness. Fairly soft but not like shale. Pyrite not seen on Siltstone (Steel Formation) unless very fine-grained and disseminated and oxidized to MgO ₂ . No Qtz visible. 45% dark grey/black to black Graphitic Argillite. Non-calcareous. Slightly graphitic. Limonite occurs on fracture surfaces and on Qtz as staining and limonite "coating"; some limonite blebs also occur throughout interval. Pyrite is trace but some small blebs of fine-grained pyrite oxidized to MgO ₂ seen on limonite; elsewhere can't see any unless colour of MgO ₂ and Graphitic Argillite are same. From 12-16m there is Qtz chips and Qtz veining seen; quite abundant. From 16-22m there is less Qtz. In all intervals there is chips of muddy clay which is like gouge but not as sticky; more muddy.
22.00	25.00	Limonitic Altered Quartz Monzonite C2, S2, P4, tr Lm Light/medium orange to light orange/green Limonitic Altered Quartz Monzonite. The greenish tinged chips could almost be Altered Quartz Monzonite but Limonitic Altered Quartz Monzonite dominates. Limonite occurs pervasively on all but some, it is very trace. Biotite is completely altered to white mica; chips are pitted also and most seem to be weathered out. Feldspars are intensely altered to clay or weathered out already. Pyrite is very trace and only seen as fine-grained small blebs oxidized to MgO ₂ on a few chips. Qtz flooding occurs on all chips. From 22-24m there is some whitish/orange gouge material which is strongly reacts to HCl. Chips dominantly react moderately to HCl.
25.00	57.50	Graphitic Argillite C0, S1, P2-P4, tr Py, tr Lm Graphitic Argillite same as 12-22m; except pyrite is dominantly fine to medium grained blebs of tarnished pyrite - some MgO ₂ still occurs and limonite is a little less. Qtz is seen from 25-50m. From 50-52m some grey gougy material. 25% Siltstone (Steel Formation) same as 12-22m; except no limonite specks seen.
57.50	86.00	Altered Quartz Monzonite C1, S1-S3, P4, tr Lm Dark grey/green to white Altered Quartz Monzonite. Limonite occurs only as specks where pyrite has oxidized to FeO ₂ throughout interval, and from 74-76m there is a few chips that are Limonitic Altered Quartz Monzonite. Dark Altered Quartz Monzonite chips are from 71-75m; biotite weakly altered around rim to white mica, feldspar moderately altered to clay. The rest of the intervals are white to whitish/grey Altered Quartz Monzonite where the biotite is intensely to completely altered to white mica; most have also been silicified or weathered to white rather than silvery coloured. Feldspars are weathered out dominantly or silicified; from 71-75m they are moderately altered to clay. Pyrite in all intervals are small specks oxidized to FeO ₂ ; stained around pyrite. Pyrite also occurs as fine-grained blebs, and disseminated, oxidized to MgO ₂ - no fresh or tarnished Altered Quartz Monzonite seen. Qtz flooding is strong in all intervals except the dark chips where it is weak to moderate. Qtz chips also are seen in almost all intervals except: 84-86m, 72-74m and 60-62m. Very slightly calcareous - can hear fizz.
86.00	98.00	Graphitic Argillite Co, S1, P1-P4, tr Py, tr Lm Graphitic Argillite same as 25-57.5m; except from 92-98m there is a few specks and small blebs of pyrite which is fine-grained and oxidized to FeO ₂ , one chip from 92-92m is completely covered in limonite; there is also pyrite stringers in some chips which are slightly tarnished. 10% Siltstone (Steel Formation) same as 25-57.5m
98.00	103.00	Altered Quartz Monzonite C1, S2-S3, P1-P4, tr Py, tr Lm Same as 57.5-86m; except all chips white to whitish/grey, pyrite is dominantly fine-medium grained pyrite that is slightly tarnished blebs or disseminated.
103.00	105.50	Graphitic Argillite C0, S1, P1-P2, tr Py, tr Lm Dark grey/black to black Graphitic Argillite. Non-calcareous. Limonite just on a few chips from 104-105.5m where the Qtz is stained. Few Qtz chips occur in interval. Pyrite is fine-grained blebs and stringers of weakly to moderately tarnished pyrite; some pyrite is also medium grained

From	To	Geological Log
		cubic pyrite that is weakly tarnished to almost fresh.
105.50	121.00	Altered Quartz Monzonite C2, S2-S3, P4-P2, tr Py, tr Lm Whitish grey to light grey Altered Quartz Monzonite. Limonite only occurs as specks which is pyrite oxidized to FeO ₂ throughout interval. Some fine-medium grained pyrite from 108-110m which is moderately tarnished. Pyrite is dominantly fine-grained and occurs as small blebs and disseminated, oxidized to MgO ₂ . Biotite are completely altered to white mica, but silicified and white coloured dominantly. Feldspar is rare and visible feldspar is silicified; most altered to clay and has been weathered out. Moderately to strongly calcareous throughout interval. From 118-120m there is a few chips with apple-green mariposite. All chips are silicified but whitish-grey coloured chips are more silicified than the light grey chips.
121.00	128.50	Graphitic Argillite C0, S1, P0-P2, 1-2% Py, tr Lm Same as 103-105.5m except more fresh fine-medium grained pyrite seen, an disseminated as well as blebs.
128.50	130.00	Chert C0, S4, P0, 1% Py, tr Lm Light-medium grey Chert. Trace limonite stains a few chips with Qtz veining. Pyrite is fine-grained, blebs and disseminated, fresh. There is a few chips with medium-grained cubic pyrite which is fresh also. Chert is very siliceous. Non-calcareous.

*** END OF HOLE *** 130.00

HOLE NO: RC97-2024	SECTION:23052.34	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : LUCKY
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

RC CENTER SAMPLING	0.00 66.00 5.25
Drill contractor:	MIDNIGHT SUN
Drill rig:	SCHRAMM
Date started:	2/1/98
Date finished:	2/1/98
Logged by:	LISA JAMRICH
Relogged by:	
Sampled by:	STEVE ERDMAN

*** COLLAR COORDINATES AND RL ***

NOMINAL	19552.58mN	23052.34mE	765.35RL
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Pre-collar depth: Final depth: 66.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered: 63.5
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	12.00	GRAPHITIC ARGILLITE
12.00	19.00	GRAPHITIC ARGILLITE
19.00	28.00	GRAPHITIC ARGILLITE
28.00	50.00	CHERT
50.00	58.00	GRAPHITIC ARGILLITE
58.00	66.00	CHERT
66.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Colluvium Limonitic Altered Quartz Monzonite, Graphitic Argillite, Altered Quartz Monzonite, mud
2.00	12.00	Graphitic Argillite Dark grey/black to black Graphitic Argillite. Slightly graphitic. Non-calcareous. Limonite occurs on some fracture surfaces and as staining on Qtz veinlets. Pyrite is completely oxidized to MgO ₂ and is fine-grained blebs; and complete fracture surfaces that are slightly reddish some FeO ₂ in MgO ₂ . Qtz veinlets and Qtz chips throughout interval. 25% medium orange Limonitic Altered Quartz Monzonite. Limonite pervasive with some stronger limonite on fracture surfaces. Biotite are completely altered to white mica; feldspars are absent - completely weathered out. Limonitic Altered Quartz Monzonite is very pitted. Pyrite is completely oxidized to MgO ₂ , fine-grained small blebs and on fracture surfaces. Weakly calcareous. Slightly siliceous.
12.00	19.00	Graphitic Argillite C0, S1, P4, tr Lm Same as 2-12m only limonite does not occur 14-19m.
19.00	28.00	Graphitic Argillite Black Graphitic Argillite to dark grey/black Graphitic Argillite. Non-calcareous. Very slightly graphitic. Pyrite is dominantly fine-grained blebs and tarnished. Some pyrite is specks of red-copper pyrite that has been oxidized to FeO ₂ from 22-28m. Qtz veinlets that occur contain small blebs of pyrite which is completely oxidized to MgO ₂ . 40% light grey Chert. Non-calcareous. Very siliceous. Pyrite occurs as a few specks that have oxidized to FeO ₂ from 26-28m; pyrite also is strongly oxidized to MgO ₂ and are small blebs disseminated through chips. Pyrite occurs as slightly tarnishes, blebs, and fine-grained; a few chips are slightly tarnished pyrite almost completely covers a few chips from 24-26m.
28.00	50.00	Chert Co, S4, P1-P4, tr Py, tr Lm Black to light grey Chert. Non-calcareous. Very siliceous. Limonite only occurs as a few specks throughout interval which is pyrite that is completely oxidized to FeO ₂ . Pyrite is dominantly fine-grained blebs and fracture surfaces that is slightly tarnished. There are stringers from 40-42m which is hard to tell if stringers of dark black Chert or pyrite oxidized to MgO ₂ . Qtz veinlets are seen in some black chips. Staining of limonite from 32-34m in Qtz. Slight graphitic gouge chump from 42-44m.
50.00	58.00	Graphitic Argillite C0, S1, P0-P1, tr Py Dark grey/black to black Graphitic Argillite. No limonite seen. Non-calcareous. Some Qtz veining and chips seen throughout interval. Pyrite is fine-grained blebs and disseminated fresh to slightly tarnished.
58.00	66.00	Chert C0, S1-S4, P0-P1, tr Py, tr Lm Chert same as 28-50m; except all pyrite is fresh to slightly tarnished. 40% Graphitic Argillite is same as 50-58m. Limonite stains Qtz 58-60m only.

*** END OF HOLE *** 66.00

HOLE NO: RC97-2026	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CANADIAN SOUTH
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	18999.36mN	19476.75mE	894.44RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 88.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	24.00	-55.00

*** SUMMARY LOG ***

0.00	8.00	OVERBURDEN
8.00	10.00	OVERBURDEN
10.00	20.20	ARGILLITE
20.20	22.00	SHALE
22.00	24.00	ARGILLITE
24.00	30.10	SHALE
30.10	34.50	LIMONITIC ALTERED QUARTZ MONZONITE
34.50	48.00	SILTSTONE (EARN GROUP)
48.00	88.00	SILTSTONE (EARN GROUP)
88.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	8.00	Overburden Overburden, as determined by drill site technician ("What a mess."). No recovery or sample.
8.00	10.00	Overburden ->ARGG Overburden, as determined by drill site technician; damp, carbonaceous argillite; intensely calcareous - rolling reaction to HCl creates foul-smelling gas.
10.00	20.20	Argillite C3 Sk Black silty argillite; very weakly carbonaceous at upper 'contacts - quickly decreases; intensely calcareous matrix - vigorous reaction to HCl creates smelly gas; weak white calcite stockwork - strongest 14.0 - 16.0m; non-silicified; no sulfides; angular fragments; original bedding faintly evident locally; slightly shimmery.
20.20	22.00	Shale TR Py P4 S1 Limey shale; reaction to HCl is less strong than that observed in adjacent units; soft, platy fragments; weak hairline quartz stockwork and occasional mm-size veinlets; clay-like, orange-stained coatings on several surfaces; trace ultra fine (<1/10mm) disseminated pyrite altered to dark red and orange limonite.
22.00	24.00	Argillite C1 S1 Sk Non- to very weakly carbonaceous argillite; much as 10.0 - 20.2m, but only very weakly calcareous; rare calcite veinlets; moderate milky quartz stockwork - veinlets <2mm, usually less; no sulfides; minor oxidized surfaces.
24.00	30.10	Shale C1 Soft, platy, medium grey shale, as 20.2 - 22.0m; weak oxidation of modal mafics creates subtle orange speckling; minor clay alteration; contains minor stockworked argillite; no sulfides; rare hairline stockwork; tans toward siltstone and sandstone near lower contact - sandstone fragments are intensely pervasively oxidized and limonite stained.
30.10	34.50	Limonitic Altered Quartz Monzonite 5% P P4 S1 Sk C1 Rich bright orange limonitic altered quartz monzonite; very strong to intense pervasive limonitic staining; very strong argillic alteration of phyrlic and fine grained modal feldspars; strong sericitization; abundant limonitic fine grained clay-like powder; where most intensely altered the unit can be crumbled with pressure from fingernail; chips have very fine, granular, felted, opaque appearance; biotite altered to ragged limonitic, sericitic shreds or is coated with minor manganese oxide which preserves original crystal form; manganese oxide coats several surfaces. Weakly silicified - angular solid quartz fragments <1/2cm and very rare sub-mm veinlets near upper contact; no pervasive silicification. <5% pyrite as disseminated cubes <1/4mm (dominant phase) and lesser finer disseminations <1/10mm; all sulfides show complete alteration to limonite - pseudomorphs are very well preserved, especially near top of interval; sulfides are also coated with manganese oxide. Weakly calcareous matrix.
34.50	48.00	Siltstone (Earn Group) Sk Shaley siltstone; hard to soft, flakey to angular fragments; most surfaces/bedding planes display very thin orange to red limonitic patina; very, very weakly calcareous matrix; trace disseminated pyrite - tarnished to more strongly oxidized - sulfides occasionally coated with manganese oxide; original bedding discernible; minor clay-altered, limonitic sandstone - often with stronger quartz stockwork.

From	To	Geological Log
48.00	88.00	Siltstone (Earn Group) Sk C1 Argillitic siltstone; dark grey to black; hard, angular fragments break into large plates in which original bedding is easily discernible; weak stockwork locally with milky quartz veinlets <1/2cm, especially below 68.0m; weak limonitic patina on several fracture/bedding planes; very weakly calcareous - decreasing with depth; minor sandstone and shale horizons.

*** END OF HOLE *** 88.00

HOLE NO: RC97-2027	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CANADIAN SOUTH
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	19026.44 mN	19473.60 mE	882.49 RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 64.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	24.00	-55.00

*** SUMMARY LOG ***

0.00	8.00	ARGILLITE
8.00	11.00	GRAPHITIC ARGILLITE
11.00	12.00	LIMONITIC QUARTZ MONZONITE
12.00	16.00	LIMONITIC ALTERED QUARTZ MONZONITE
16.00	64.00	SILTSTONE (EARN GROUP)
64.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	8.00	<p>Argillite 60:40 Siltstone (Steel Formation)->OB C2 Non-graphitic argillite with <40% grey to pale orange moderately to strongly calcareous Steel Formation siltstone; weak hairline quartz stockwork. Argillite to siltstone is hard, angular and breaks into blocky to platy fragments; minor quartz veining <1mm. Steel Formation siltstone often shows very weak pervasive limonitic staining and darker orange, very thin limonitic patina on fracture/bedding planes. Interval often contains minor quantities of intrusive and very rare strongly limonitic quartz fragments. Note: Mixed lithologies, wetness of unwashed samples, general muddy appearance and minor organic material suggests this material might be overburden; technician's log missing at time of logging.</p>
8.00	11.00	<p>Graphitic Argillite Gr Black argillite; weakly to moderately calcareous; slightly silty; weak quartz stockwork with veinlets <1mm with occasional orange staining; hard, angular fragments; muddy matrix; no sulfides.</p>
11.00	12.00	<p>Limonitic Quartz Monzonite C3 Dark orange-brown monzonite with abundant (<5%) fresh black biotite; intense pervasive limonitic staining; very strong sericitization of feldspar-rich matrix - unit has opaque, felted appearance; original grain boundaries of matrix constituents are identifiable; un-silicified; intensely calcareous; several surfaces show thin manganese oxide coating.</p>
12.00	16.00	<p>Limonitic Altered Quartz Monzonite 5% Py P4 C3 Limonitic altered quartz monzonite, almost exactly as 11.0 -12.0m, except abundant manganese oxide coats former biotite, often preserving original crystal form; 5 - 10% manganese oxide coats several surfaces and creates a black spotted appearance. Interval may contain >5% former cubic disseminated pyrite which has been completely overprinted by manganese oxide - original crystal form is often very poorly preserved and positive identification of former sulfides is not possible. Rock is intensely clay and sericite altered; fragments can be crushed with pressure from fingernail. Very strongly calcareous.</p>
16.00	64.00	<p>Siltstone (Earn Group) ->SH Medium grey shaley siltstone; soft and platy to slightly blocky; several surfaces show thin limonitic patina; generally hard; weak quartz stockwork - milky veinlets <1mm; no sulfides; non-calcareous. 16.0 - 22.0m: Moderate to locally very strong clay alteration; possible shear or fault 18.0 - 20.0m; abundant gobs of clay in (poorly) washed sample. Minor clay-altered, fine grained sandstone horizons. Oxidized fractures are very common to 51.0m; unwashed samples are tan coloured; below 51.0m oxidation is very rare and unwashed samples are grey; very weakly carbonaceous from 62.0m.</p>

*** END OF HOLE *** 64.00

HOLE NO: RC97-2028	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BIG ROCK EAST
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	21649.24mN	16580.28mE	712.71RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 112.00

Purpose of hole: EXPLORATION

Hole status:

Comments: CONVENTIONAL DRILLING TO 12.0M.

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	270.00	-55.00

*** SUMMARY LOG ***

0.00	4.10	OVERBURDEN
4.10	4.50	ARGILLITE
4.50	5.50	LIMONITIC ALTERED QUARTZ MONZONITE
5.50	6.30	ARGILLITE
6.30	12.00	LIMONITIC ALTERED QUARTZ MONZONITE
12.00	15.20	LIMONITIC ALTERED QUARTZ MONZONITE
15.20	16.00	GRAPHITIC ARGILLITE
16.00	19.00	BIOTITE MONZONITE
19.00	20.50	LIMONITIC BIOTITE MONZONITE
20.50	29.50	LIMONITIC ALTERED QUARTZ MONZONITE
29.50	30.00	GRAPHITIC ARGILLITE
30.00	31.50	BIOTITE MONZONITE
31.50	34.00	LIMONITIC BIOTITE MONZONITE
34.00	34.80	GRAPHITIC ARGILLITE
34.80	38.00	LIMONITIC ALTERED QUARTZ MONZONITE
38.00	62.50	LIMONITIC ALTERED QUARTZ MONZONITE
62.50	63.50	GRAPHITIC ARGILLITE
63.50	71.20	LIMONITIC ALTERED QUARTZ MONZONITE
71.20	74.10	GRAPHITIC ARGILLITE
74.10	75.80	LIMONITIC ALTERED QUARTZ MONZONITE
75.80	83.20	GRAPHITIC ARGILLITE

Checked and signed: _____	Date: _____
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HOLE NO: RC97-2028

SECTION:

GRID:MINE

83.20	85.80	LIMONITIC ALTERED QUARTZ MONZONITE
85.80	87.50	GRAPHITIC ARGILLITE
87.50	90.30	LIMONITIC ALTERED QUARTZ MONZONITE
90.30	99.90	GRAPHITIC ARGILLITE
99.90	101.90	LIMONITIC ALTERED QUARTZ MONZONITE
101.90	112.00	GRAPHITIC ARGILLITE
112.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	4.10	<p>Overburden =>ARG:LAQM Overburden/fill, as determined by drill site technician. 0.0 - 1.9m: Weathered silty argillite; brownish sericitic coatings on most surfaces; weak milky quartz stockwork; non-carbonaceous; no sulfides. 1.9 - 3.0m: Very dark orange-brown monzonite; intense pervasive limonitic sericitization; >3% dark red to orange, empty boxworks <1/10mm; phytic texture weakly preserved; rare cloudy quartz veinlets; very strongly weathered. 3.0 - 4.1m: Non-carbonaceous, very strongly silicified argillite with very strong milky and cloudy quartz stockwork; rare limonitic patina on some surfaces.</p>
4.10	4.50	<p>Argillite S3 Sk Siliceous, stockworked argillite, as described above; stockwork is multiphase and completely random; many quartz veinlets show weak orange staining; most surfaces coated with limonitic, sericitic skins indicative of near surface weathering.</p>
4.50	5.50	<p>Limonitic Altered Quartz Monzonite C2 Dark orange-brown, intensely sericitized and clay altered quartz monzonite, as described 1.9 - 3.0m; original textures are weakly discernible although phytic minerals have been altered out; all former biotite altered to limonitic, sericitic masses which remain on chip surfaces; <3% boxworks.</p>
5.50	6.30	<p>Argillite S3 Sk Siliceous, stockworked, non-carbonaceous argillite, as 4.4 - 4.5m; still appears weathered.</p>
6.30	12.00	<p>Limonitic Altered Quartz Monzonite C2 8% Py P2 Yellowish orange-brown quartz monzonite; original textures are weakly discernible; phytic minerals absent; former biotite altered to orange-stained sericitic masses and pseudomorphs which remain on surfaces; minor spotty manganese oxide. >8% very fine (1/4mm to <1/10mm) disseminated cubic pyrite - usually shows surface oxidation, tarnish and corrosion although several crystals show complete alteration to dark red limonite; sulfides are occasionally coated with manganese oxide. Strongly calcareous; no quartz or calcite veining.</p>
12.00	15.20	<p>Limonitic Altered Quartz Monzonite C2 Monzonite, as 6.3 - 12.0m; lacks sulfides; contains <5% unstained fragments - some with <5% fresh pyrite.</p>
15.20	16.00	<p>Graphitic Argillite S1 SI Gr Silty carbonaceous argillite with weak quartz stockwork.</p>
16.00	19.00	<p>Biotite Monzonite C3 Dark blueish grey biotitic monzonite, as seen in Classic Zone; <50% fresh black to altered biotite; intensely calcareous - reaction to HCl creates foul smelling gas; all surfaces coated with greenish, sericitic powder; no quartz or calcite veining; no sulfides; localized pervasive limonitic staining; poor recovery of coarse component for washed sample.</p>
19.00	20.50	<p>Limonitic Biotite Monzonite C3 Biotite monzonite (as above) with intense pervasive limonitic staining and intense pervasive sericite alteration; chips resemble leopards.</p>
20.50	29.50	<p>Limonitic Altered Quartz Monzonite C3 8% Py P0 Light orange monzonite, much as described earlier; moderate, even, pervasive limonitic staining; non-phytic; weak sericitization and argillic alteration of feldspar-rich matrix; very strongly calcareous; no modal quartz; former biotite altered to sericitic, limonitic masses. >8% ultra fine (<1/10mm) disseminated pyrite - usually fresh to very weakly tarnished; sulfide concentrations are higher locally; very, very rare arsenopyrite.</p>

From	To	Geological Log
29.50	30.00	Graphitic Argillite S1 Sk Gr Weakly carbonaceous, weakly silicified and stockworked argillite; some fractures with hematite.
30.00	31.50	Biotite Monzonite Blue-grey biotitic monzonite, as 16.0 - 19.0m.
31.50	34.00	Limonitic Biotite Monzonite C3 Deep orange-brown monzonite, as 19.0 - 20.5m.
34.00	34.80	Graphitic Argillite Gr Graphitic argillite; excellent greasy lustre; weak pervasive silicification.
34.80	38.00	Limonitic Altered Quartz Monzonite C3 5% Py P1 Monzonite, as 20.5 - 29.5m; <5% weakly tarnished pyrite.
38.00	62.50	Limonitic Altered Quartz Monzonite C3 Medium orange-brown monzonite; good feldspar phyrlic texture - k-spar phenocrysts are intensely clay altered; sericitization of feldspar-rich matrix causes sugrosic appearance; former biotite altered to dark brown pseudomorphs; strongly calcareous; no quartz; rare pyrite appears to replace former biotite. 58.9 - 60.1m: Argillite.
62.50	63.50	Graphitic Argillite S3 Sk Gr Siliceous, stockworked, graphitic argillite.
63.50	71.20	Limonitic Altered Quartz Monzonite C3 S3 Sk 7% Py P1 Sb Greyish orange feldspar phyrlic monzonite, as 38.0 - 62.5m. >30% cloudy to smky quartz veinlets and veinlet fragments <1cm - excellent strong stockwork; silvery stibnite and disseminated pyrite often found within secondary quartz. >7% disseminated pyrite with weak to moderate oxidation, usually as surface oxidation and tarnish, rarely intense. Very strongly calcareous where not silicified.
71.20	74.10	Graphitic Argillite S2 Sk Gr Graphitic argillite; moderate multiphase quartz stockwork; excellent oily graphitic lustre; hard, angular fragments.
74.10	75.80	Limonitic Altered Quartz Monzonite C2 12% Py P1 Deep orange, waxy-looking monzonite; opaque; original texture easily discerned; abundant former biotite as powdery white, micaceous pseudomorphs; moderately calcareous; no quartz. >12% fine (most <1/10mm) disseminated pyrite with very weak tarnish to slight surface oxidation; occasional larger crystals <1/2mm also show very weak oxidation.
75.80	83.20	Graphitic Argillite C1 S1 Sk Gr Graphitic stockworked argillite; excellent greasy lustre; moderate multiphase quartz stockwork; weakly calcareous; rare calcite veinlets; occasional limonitic fractures; hard, angular fragments; rare pyrite on fractures.
83.20	85.80	Limonitic Altered Quartz Monzonite C1 3% Py P1 Monzonite, as 74.1 - 75.8; 3-5% disseminated, fresh to very weakly oxidized pyrite; <25% fragments lack limonitic staining and may contain fine arsenopyrite.
85.80	87.50	Graphitic Argillite C1 10% Py P0 Silty argillite; graphitic; soft to shale-like locally; visible bedding laminations; weak sub-mm cloudy quartz veining; >10% fine, yellow, disseminated cubic pyrite <1/10mm - concentrations are higher locally; excellent graphitic sheen.

From	To	Geological Log
87.50	90.30	<p>Limonitic Altered Quartz Monzonite C1 5% Py P0 Pale orange monzonite, as 74.1 - 75.8m; <5% fresh to weakly tarnished disseminated pyrite - some appears to replace former biotite; limonitic staining strongest at conatcts; original textures are very well preserved.</p>
90.30	99.90	<p>Graphitic Argillite C1 Gr Graphitic argillite; very strong graphitic sheen; hard, angular fragments; weakly calcareous; very weak quartz stockwork - stronger locally.</p>
99.90	101.90	<p>Limonitic Altered Quartz Monzonite C2 S3 Sk 5% Py P0 As Palest grey-orange monzonite, as 63.5 - 71.2m; intensely silicified and stockworked; <50% unit composed of cloudy quartz fragments containing some sulfides and very weak pervasive limonitic satining; calcareous matrix where not silicified. >5% disseminated pyrite - two phases; rare fine acicular fresh arsenopyrite; some fragments show very high sulfide concentrations.</p>
101.90	112.00	<p>Graphitic Argillite Gr Graphitic argillite, as 90.3 - 99.9m; very weak quartz stockwork; no sulfides; non-calcareous; no limonite; hard, angular fragments.</p>

*** END OF HOLE *** 112.00

HOLE NO: RC97-2029	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BIG ROCK EAST
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	21688.65mN	16563.37mE	701.33RL
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Pre-collar depth: Final depth: 70.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	270.00	-55.00

*** SUMMARY LOG ***

0.00	1.50	LIMONITIC ALTERED
		QUARTZ MONZONITE
1.50	2.20	GRAPHITIC ARGILLITE
2.20	5.90	LIMONITIC ALTERED
		QUARTZ MONZONITE
5.90	7.00	ARGILLITE
7.00	9.50	LIMONITIC ALTERED
		QUARTZ MONZONITE
9.50	11.20	ARGILLITE
11.20	13.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
13.00	14.50	GRAPHITIC ARGILLITE
14.50	15.50	LIMONITIC ALTERED
		QUARTZ MONZONITE
15.50	16.60	GRAPHITIC ARGILLITE
16.60	21.90	LIMONITIC ALTERED
		QUARTZ MONZONITE
21.90	24.10	GRAPHITIC ARGILLITE
24.10	26.50	ALTERED QUARTZ
		MONZONITE
26.50	28.30	GRAPHITIC ARGILLITE
28.30	33.20	LIMONITIC ALTERED
		QUARTZ MONZONITE
33.20	35.90	GRAPHITIC ARGILLITE
35.90	37.70	LIMONITIC ALTERED
		QUARTZ MONZONITE
37.70	70.00	GRAPHITIC ARGILLITE
70.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	1.50	<p>Limonic Altered Quartz Monzonite 8% Py P2 C2 Dark orange limonitic altered quartz monzonite; possibly overburden as samples are wet and lithologies are quite mixed. Intense pervasive limonitic staining; strong sericitization of feldspar-rich matrix; rare very strongly clay-altered k-spar phenocrysts observed in situ; moderately to strongly calcareous matrix; biotite altered to powdery limonitic shreds and to rare better preserved sivery micaceous pseudomorphs; manganese oxide forms spotty coating on several surfaces. <8% ultra fine (<1/10mm) disseminated pyrite has been weakly oxidized (surface coatings) to occasionally completely oxidized; some sulfides coated with manganese oxide; most sulfides are easily observed against matrix. No silicification or stockwork.</p>
1.50	2.20	<p>Graphitic Argillite Sk Gr Black carbonaceous, siliceous and stockworked argillite; possibly overburden, as above; also contains minor organic material.</p>
2.20	5.90	<p>Limonic Altered Quartz Monzonite TR Py P4 C2 Qe Limonitic altered quartz monzonite; intense pervasive limonitic staining; intense decomposition and clay and sericite alteration of matrix - opaque granular chips can be crushed with pressure from fingernail; moderately calcareous matrix; un-silicified; trace completely oxidized limonitic pseudomorphs after pyrite - original sulfide content likely higher but evidence overprinted by strongest alterations; chips have look of being strongly weathered; pyrite cubes may be coated with manganese oxide. From 4.0m: Abundant clear quartz eyes <3mm (rarely to 8mm); increased manganese oxide on many surfaces. Possibly overburden, as above; contains minor organics; missing technician's log at time of logging.</p>
5.90	7.00	<p>Argillite Sk Dark grey siliceous and silicified non-graphitic argillite; strong milky quartz stockwork with veinlets <4mm, usually 1 - 2 mm; not calcareous; no sulfides; hard, angular, blocky fragments; minor oxidation of some fractures.</p>
7.00	9.50	<p>Limonic Altered Quartz Monzonite 5% Py P3 C2 Qe Dark orange intrusive as 2.2 - 5.9m; all alterations are very strong; some chips can be scratched with fingernail; <5% disseminated pyrite < 1/4mm shows near complete alteration to limonite; several sulfides coated with manganese oxide; some quartz eyes; moderately to strongly calcareous; very rare quartz veinlets <1mm.</p>
9.50	11.20	<p>Argillite Sk Stockworked argillite, as 5.9 - 7.0m.</p>
11.20	13.00	<p>Limonic Altered Quartz Monzonite 3% Py P4 C3 Dark orange, calcareous, oxidized, pyritic, sericitized intrusive, as 7.0 - 9.5m; weak quartz stockwork - clear veinlets <1mm; incompetent chips can be crushed with fingernail.</p>
13.00	14.50	<p>Graphitic Argillite Sk Gr Argillite, as 9.5 - 11.2m; moderately carbonaceous to graphitic.</p>
14.50	15.50	<p>Limonic Altered Quartz Monzonite 3% Py P4 C3 Intrusive, as 11.2 - 13.0m; very strongly altered; most original textures are smeared and blurred.</p>

From	To	Geological Log
15.50	16.60	Graphitic Argillite Sk Gr Stockworked graphitic argillite; as 13.0 - 14.5m.
16.60	21.90	Limonitic Altered Quartz Monzonite 4% Py P3 S3 Sk C3 Qe Medium orange-brown limonitic altered quartz monzonite; strong, even pervasive limonitic staining; high modal quartz content, including a few phyrical, clear quartz eyes <4mm; most original textures are well preserved; intensely clay-altered k-spar phenocrysts <4mm are occasionally observed in situ. Strong quartz stockwork; >30% secondary quartz as cloudy veinlets and veinlet fragments <1mm to 1/2cm; most quartz shows limonitic staining. <4% pyrite as nearly completely oxidized disseminated cubes <1/4mm; sulfides occasionally coated with manganese oxide; where alterations are strongest, evidence of sulfide presence is destroyed. Strongly sericitized; moderately to strongly calcareous matrix; all original biotite altered to limonitic shreds. Looks good!
21.90	24.10	Graphitic Argillite S3 Sk Gr Black argillite; moderately graphitic - several chips show slight graphitic sheen; strong pervasive silicification and cloudy to milky quartz stockwork with veinlets <4mm - veinlets are variably oriented and several phases exist; chips are hard and angular; very rare patches of limonite; no sulfides.
24.10	26.50	Altered Quartz Monzonite ->LAQM 8% Py P1 S1 Sk C2 Medium grey to pale orange monzonite; borderline phase between limonitic and non-limonitic varieties; <50% fragments show weak pervasive limonitic staining; unstained versions have distinct blueish hues. Original igneous textures are well preserved; strongly clay altered k-spar phenocrysts <4mm are occasionally seen in situ; quartz eyes are rare but modal quartz content is slightly enhanced; 5% biotite has altered to excellent silvery pseudomorphs; strongly calcareous matrix; weak sericitization, especially in fragments where oxidation is stronger. Very weak quartz stockwork with clear to slightly orange stained veinlets <2mm. <8% fine (<1/5mm) disseminated pyrite; sulfides remain fresh in unoxidized rock; where rock shows oxidation and limonitic staining pyrite is partially altered to limonite - original crystal form is well preserved and pyrite cube surfaces are oxidized; rare completely oxidized pyrite crystals; trace fresh pyrite as clusters >1mm - stronger yellowish coloration; very rare, trace, ultra fine, silvery, acicular arsenopyrite crystals - seen only in fragments which lack oxidation; in some occurrences very, very fine pyrite clusters seem to partially replace former biotite.
26.50	28.30	Graphitic Argillite Gr Black, hard, angular graphitic argillite similar to 21.9 - 24.1m, but slightly more carbonaceous and lacking intense silicification and stockwork; no sulfides; non-calcareous.
28.30	33.20	Limonitic Altered Quartz Monzonite 5% Py P1 C2 Light orange to slightly greyish quartz monzonite; limonitic staining is weak and pervasive; otherwise, much as 24.1 - 26.5m. <5% fine disseminated pyrite <1/10mm which displays very weak partial oxidation; in rare case oxidation is stronger. No silicification or stockwork; variably calcareous. Original textures are very well preserved; biotite is generally poorly preserved; moderate to strong sericite alteration of modal feldspar; variably calcally altered. Rare surfaces with slickensides.
33.20	35.90	Graphitic Argillite C2 Gr Silty black graphitic argillite; more strongly carbonaceous than similar units encountered up hole; good greasy lustre on some fragments; angular, blocky to platy fragments; very weak sub-mm milky quartz veinlets; trace limonitic surfaces; very weakly calcareous matrix - reaction

From	To	Geological Log
		intensifies with time.
35.90	37.70	<p>Limonitic Altered Quartz Monzonite 5% Py P2 C1 Dull greyish-orange limonitic altered quartz monzonite, much as 28.3 - 33.2m, but with stronger pervasive limonitic staining; sericite alteration of matrix is much stronger. <5% weakly oxidized ultra fine disseminated pyrite; no silicification; strongly calcareous matrix. Silvery sericitic pseudomorphs after biotite are increasingly less well preserved; most other original textures are moderately well preserved; phyrlic minerals are absent or destroyed.</p>
37.70	70.00	<p>Graphitic Argillite Sk Gr Strongly graphitic argillite with weak to moderate milky quartz stockwork; more graphitic than intervals previously encountered - good greasy lustre; very, very weakly calcareous matrix; silicified chips are hard and angular; small flakes cleave from larger flakes along graphitic planes. Stockwork intensifies locally; very rare limonitic surfaces. No sulfides.</p>

*** END OF HOLE *** 70.00

HOLE NO: RC97-2030 SECTION: GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : PACIFIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED 20553.70mN 17353.00mE 821.63RL

Pre-collar depth: Final depth: 100.00

Purpose of hole: EXPLORATION

Hole status:

Comments: CONVENTIONAL DRILLING TO 6.0M.

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	1.00	OVERBURDEN
1.00	14.00	SANDSTONE
14.00	16.80	SILTSTONE (EARN GROUP)
16.80	18.00	SANDSTONE
18.00	21.90	SILTSTONE (EARN GROUP)
21.90	23.00	LIMONITIC ALTERED QUARTZ MONZONITE
23.00	26.50	SILTSTONE (EARN GROUP)
26.50	29.50	GRAPHITIC ARGILLITE
29.50	44.00	SHALE
44.00	56.00	SILTSTONE (EARN GROUP)
56.00	100.00	GRAPHITIC ARGILLITE
100.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	1.00	Overburden Overburden, as determined by drill site technician; muddy. Mixed lithologies, includes intensely graphitic argillite and other limonitic sediments.
1.00	14.00	Sandstone 90:10 Shale Lm S1 Sk Greyish to orange, fine grained, quartz-rich sandstone; most surfaces show some clay-silt, orange coatings; unit shows pervasive limonitic staining locally; modal biotite often oxidized to small (<1/4mm) flecks; unwashed sample is uniformly orange and possibly over expresses quantity and intensity of limonite in unit; not calcareous; weak to moderate clear and milky quartz stockwork - veinlets <1cm occasionally display pervasive limonitic staining; no visible sulfides; where sandstone is feldspar-rich and contains only minor quartz it is often very strongly clay altered and shows pervasive limonitic staining; no sulfides. >10% soft, orange stained, argillically altered shale horizons; ratio of sandstone to shale varies from sample to sample.
14.00	16.80	Siltstone (Earn Group) Lm Medium grey to orange siltstone; several shaley horizons; several samples with moderate pervasive limonitic staining and very strong argillic alteration; soft chips; original bedding laminations are often discernible; not calcareous; no sulfides; no quartz veining.
16.80	18.00	Sandstone Lm S1 Sk Sandstone, as 1.0 - 14.0m.
18.00	21.90	Siltstone (Earn Group) 50:50 Argillite Lm Siltstone, as 14.0 - 16.8m; intemixed with <50% hard, black, non-carbonaceous argillite; intense argillic alteration locally; argillite shows moderate to strong milky quartz stockwork; no carbonate; no sulfides; limonitic skins on all surfaces.
21.90	23.00	Limonitic Altered Quartz Monzonite TR Py P4 Rich, very dark orange limonitic altered quartz monzonite; intense pervasive limonitic staining; intense argillic alteration - clay clots are common; strong hematitization locally; biotite as black to brown corroded crystals and as imperfect limonitic, sericitic shreds and pseudomorphs; very, very rare ultra fine dark red limonite flecks after disseminated pyrite <1/10mm; non-calcareous; horrible, dirty interval.
23.00	26.50	Siltstone (Earn Group) 90:10 Sandstone Lm Siltstone, as 14.0 - 16.8m with <10% sandstone, as 1.0 - 14.0m; limonitic coatings on most surfaces; patchy argillic and sericitic alteration; no quartz veining; no sulfides.
26.50	29.50	Graphitic Argillite ->SHG S1 Sk Gr Black, strongly graphitic argillite to softer, more planar shale; includes both soft and hard fragments; moderate cloudy quartz stockwork and irregular pervasive silicification and minor brecciation; no limonitic surfaces; no sulfides; non-calcareous.
29.50	44.00	Shale Medium to dark grey shale; soft, platy chips in which bedding laminations are frequently observed; greenish and/or limonitic, sericitic surfaces are common but not abundant; uniform interval; no quartz veining; no sulfides; non-calcareous; very, very weak carbonaceous component, but not enough to consider the unit to be graphitic; slightly silty from 40.0m.
44.00	56.00	Siltstone (Earn Group) ->SLTG Dark grey shaley siltstone; soft and unsiliceous; platy fragments; strongly resembles 29.5 - 44.0m; no carbonate; very, very rare limonitic surfaces; weakly carbonaceous - slightly more than in above interval; trace fresh, diagenetic pyrite <1/4mm as small clusters locally; very weak mm-scale quartz veining from 48.0m with limonitic selvages.
56.00	100.00	Graphitic Argillite C1 Gr Very strong graphitic argillite and silty argillite; excellent greasy graphitic lustre on most surfaces; very weakly calcareous locally; weak cloudy and milky mm-scale quartz stockwork; graphite content decreases to 68.0m, and then decreases again from 68.0m, 82.0m and 94.0m;

From	To	Geological Log
		hard angular fragments; lacks variation throughout; quartz is very rare from 76.0m.

*** END OF HOLE *** 100.00

HOLE NO: RC97-2031	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : PACIFIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	20604.61mN	17414.62mE	821.13RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 140.00

Purpose of hole: EXPLORATION

Hole status:

Comments: CONVENTIONAL DRILLING TO 6.0M.

*** SURVEY DATA ***

Survey Method: NONE		
Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	0.50	OVERBURDEN
0.50	20.00	SILTSTONE (EARN GROUP)
20.00	24.20	SHALE
24.20	28.00	GRAPHITIC SILTSTONE
28.00	31.00	GRAPHITIC SHALE
31.00	34.00	GRAPHITIC SILTSTONE
34.00	42.00	SILTSTONE (EARN GROUP)
42.00	58.50	GRAPHITIC SANDSTONE
58.50	62.00	GRAPHITIC SILTSTONE
62.00	86.10	GRAPHITIC SANDSTONE
86.10	101.00	GRAPHITIC SILTSTONE
101.00	110.20	GREYWACKE
110.20	114.00	SANDSTONE
114.00	120.00	GRAPHITIC SILTSTONE
120.00	129.20	GRAPHITIC SILTSTONE
129.20	136.00	ALTERED QUARTZ MONZONITE
136.00	140.00	ALTERED QUARTZ MONZONITE
140.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	0.50	Overburden Overburden/fill, as determined by drill site technician; dominantly sandstone and siltstone; all surfaces with limonitic siltskins which are indicative of near surface weathering.
0.50	20.00	Siltstone (Earn Group) 80:20 Sandstone Lm S1 Sk Fine grained, soft to hard, silicified shaley siltstone with very weak to strong pervasive limonitic staining; medium grey where not stained; fine bedding laminations are visible. >20% fine grained (<1/4mm) quartz-rich sandstone; medium to dark grey with weak pervasive limonitic staining; hard; contains moderate milky quartz stockwork - mm-scale veinlets occasionally with limonitic/hematitic staining. Surfaces of all chips coated with fine sericite-clay orange coating. Not calcareous; some sample intervals may contain <10% angular, clear quartz fragments with variable orange to red staining; no sulfides. Poorly washed; abundant fines; oxidation on surfaces persists throughout entire interval; ratio of sediments varies from sample to sample. <5% limonitic altered quartz monzonite dispersed throughout. Unwashed samples have strong orange colouration.
20.00	24.20	Shale Lm Medium grey and orange silty shale; soft, platy fragments; <50% chips with limonitic patina or complete pervasive limonitic staining; non-calcareous; no sulfides; very, very rare milky quartz veinlet fragments <1mm; transitional contacts; note: degree of oxidation and staining is considerably less than observed in 0.5 - 20.0m.
24.20	28.00	Graphitic siltstone S1 Sk Gr Black argillitic siltstone; good graphitic sheen observed throughout; graphite content is variable, but never strong or intense; fine bedding laminations are quite variable; weak to locally moderate mm-scale milky quartz stockwork; trace fresh pyrite as cubes <1/10mm within quartz and as larger cubes <1/2mm disseminated throughout; sulfides are weakly tarnished locally; no limonite.
28.00	31.00	Graphitic Shale Gr Weakly graphitic shale, much as 20.0 - 24.2m; soft, platy fragments; no quartz; no carbonate; no sulfides; fine bedding easily discerned; very, very rare limonitic planes.
31.00	34.00	Graphitic siltstone ->SHG Gr Graphitic siltstone to shale; excellent graphitic sheen; rare fine disseminated fresh pyrite; very, very weak quartz stockwork; soft, platy fragments; non-calcareous.
34.00	42.00	Siltstone (Earn Group) ->SH Siltstone to shale, as 31.0 - 34.0m; non-graphitic to very weakly carbonaceous; bedding laminations are always strongly evident; rare milky quartz veinlets; rare fresh disseminated pyrite; non-calcareous; uniform appearance throughout. 50.0 - 54.0m: Argillic alteration; numerous graphitic clay clots.
42.00	58.50	Graphitic sandstone Gr Very fine grained graphitic sandstone with minor shale horizons.
58.50	62.00	Graphitic siltstone ->SHG Gr Graphitic siltstone to shale, as described in other intervals; very, very, very weakly calcareous; no quartz veining; no sulfides; no limonite.
62.00	86.10	Graphitic sandstone 90:10 Graphitic siltstone C2 S2 Sk Gr Graphitic sandstone, as 54.5 - 58.5m; weak to moderate milky quartz stockwork - veinlets often strataform; rare fresh pyrite; hard and quartz-rich; very weakly calcareous - increasingly so with depth; >10% siltstone horizons from 68.0m; up to 25% quartz with lesser calcite veinlet fragments <1cm locally. 78.0 - 80.0m: Matrix mafics oxidized creating faint orange speckling; disseminated pyrite now shows tarnish to complete oxidation; quartz-calcite veinlet fragments are very common (<25%).

From	To	Geological Log
		Graphite decreases from 80.0m.
86.10	101.00	Graphitic siltstone C1 S1 Sk Gr Weakly graphitic siltstone with minor sandstone, as units described previously; sandstone contains larger quartz fragments; rare limonitic surfaces; very weakly calcareous; weak quartz stockwork; rare sulfides - tarnished to completely oxidized.
101.00	110.20	Greywacke ->CPC S1 Sk Greywacke to chert pebble conglomerate; fine grained quartz-rich sandstone matrix with minor carbonaceous component; angular clear quartz and smoky and pale orange mm-scale to sub-cm cherty fragments plus angular argillite fragments; modal mafics in matrix show partial oxidation; trace disseminated to clustered pyrite - variable degrees of oxidation; weak milky quartz stockwork.
110.20	114.00	Sandstone ->GW Poorly sorted, quartz-rich sandstone to greywacke; modal feldspar shows weak argillic alteration; rare chert fragments; very minor patchy oxidation; very weak quartz veining.
114.00	120.00	Graphitic siltstone C1 Gr Dark grey, weakly graphitic siltstone; minor shale and sandstone horizons; minor oxidation of mafics in sandstone matrix; rare fragments of oxidized pyrite clusters <1/2cm; weak milky quartz stockwork.
120.00	129.20	Graphitic siltstone ->ARGG C1 S2 Sk Gr Graphitic siltstone with minor sandstone and argillite horizons; strong multiphase quartz stockwork; occasional sub-cm tarnished pyritic chips.
129.20	136.00	Altered Quartz Monzonite 90:10 Graphitic siltstone C2 8% Py P0 Qe Beige-grey to faintly pink quartz monzonite; very, very weak pervasive limonitic staining locally; rock shows strong waxy to pearly, opaque to translucent appearance; excellent feldspar, weakly clay altered <4mm and clear quartz eyes <3mm; moderately calcareous; no quartz veining. <8% fresh disseminated pyrite 1/4mm to <1/10mm - usually fresh, but rare crystals also show complete oxidation accompanied by aureole of staining; former biotite as excellent silvery sericitic pseudomorphs. <10% graphitic siltstone and other sediments - probably as narrow horizons/rafts which cannot be accurately placed.
136.00	140.00	Altered Quartz Monzonite 90:10 Graphitic siltstone C2 Qe As above, but only trace completely oxidized sulfides; stronger alterations, especially of matrix - creates waxy to felted appearance; good biotite pseudomorphs are rare; calcareous; no quartz veining.

*** END OF HOLE *** 140.00

HOLE NO: RC97-2032	SECTION:	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : PACIFIC
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED 20652.31mN 17479.74mE 823.09RL

Pre-collar depth: Final depth: 80.00

Purpose of hole: EXPLORATION

Hole status:

Comments: CONVENTIONAL DRILLING TO 6.0M.

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	46.00	-55.00

*** SUMMARY LOG ***

0.00	1.00	OVERBURDEN
1.00	5.50	LIMONITIC ALTERED QUARTZ MONZONITE
5.50	6.30	ARGILLITE
6.30	9.50	LIMONITIC ALTERED QUARTZ MONZONITE
9.50	10.80	ARGILLITE
10.80	13.40	LIMONITIC ALTERED QUARTZ MONZONITE
13.40	14.40	ARGILLITE
14.40	16.50	LIMONITIC ALTERED QUARTZ MONZONITE
16.50	20.80	ARGILLITE
20.80	23.90	LIMONITIC ALTERED QUARTZ MONZONITE
23.90	25.20	ARGILLITE
25.20	48.00	LIMONITIC ALTERED QUARTZ MONZONITE
48.00	54.20	LIMONITIC ALTERED QUARTZ MONZONITE
54.20	61.50	LIMONITIC ALTERED QUARTZ MONZONITE
61.50	80.00	GRAPHITIC ARGILLITE
80.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	1.00	Overburden Overburden/fill, as determined by drill site technician.
1.00	5.50	Limonitic Altered Quartz Monzonite C1 1% Py P4 Deep orange monzonite with intense, even pervasive limonitic satining; original textures are extremely well preserved; opaque, creamy to orange-stained k-spar phenocrysts <4mm with weak to moderate argillic alteration; no quartz eyes; intense sericite locally creates granular, recrystallized looking appearance; former biotite has altered to unrecognizeable limonitic, sericitic shreds and masses - locally coated with splotches of manganese oxide; rare quartz eyes; very weakly calcareous matrix; very, very rare pervasive silicification; unit has very weathered appearance. <1% dark red limonite flecks and less common boxworks represent former disseminated cubic pyrite <1/5mm; quantity of former sulfides is likely under represented, due to intense alterations which tend to overprint.
5.50	6.30	Argillite S2 Sk Dark grey to black argillite; non-graphitic; siliceous and silicified; hard fragments with weak milky quartz stockwork; all surfaces coated with limonitic, sericitic skins which are indicative of near surface weathering.
6.30	9.50	Limonitic Altered Quartz Monzonite C1 TR Py P4 Dark orange to red quartz monzonite, very much as 1.0 - 5.5m; k-spar phenocrysts have completely altered to clay and have been washed away (from washed sample); former biotite as limonitic, sericitic shreds; limonitic patina on some planar surfaces, often accompanied by spotty manganese oxide. Trace limonitic pseudomorphs after pyrite; rare surfaces show <10% manganese oxide coated former sulfides; exact quantity of former sulfide is difficult to determine due to varying alterations. Weak pervasive silicification locally; unit still shows signs of weathering.
9.50	10.80	Argillite S2 Sk Stockworked argillite with limonitic siltskins on surfaces; as 5.5 - 6.3m.
10.80	13.40	Limonitic Altered Quartz Monzonite C1 5% Py P4 S1 Sk Limonitic altered quartz monzonite, as 1.0 - 5.5m and 6.3 - 9.5m; several chips show <5% ultra fine (<1/10mm) flecks of dark red limonite after disseminated pyrite; feldspar phyric textures return, although white k-spar phenocrysts <4mm show moderate clay alteration; strong sericitization and signs of weathering; spotty manganese oxide; weak milky and clear mm-scale quartz stockwork.
13.40	14.40	Argillite S2 Sk Stockworked argillite; numerous multiphase milky quartz veinlets; minor sericitic surfaces.
14.40	16.50	Limonitic Altered Quartz Monzonite C1 1% Py P4 S1 Sk Qe Sericitic, dark orange monzonite, as 10.8 - 13.4m; original textures are well preserved with k-spar phenocrysts <4mm and clear quartz eyes <3mm; all biotite completely altered to barely recognizeable limonitic shreds; minor spotty manganese oxide; weakly calcareous. <1% limonitic pseudomorphs after pyrite <1/5mm; very weak hairline quartz stockwork. Abundant clay-rich fines, especially in (very poorly) washed sample.
16.50	20.80	Argillite S2 Sk Silicified, non-graphitic argillite with moderate, multiphase quartz stockwork; no visible sulfides; no carbonate; most surfaces coated with limonitic sericite; several quartz veinlets with variable pervasive limonitic staining.
20.80	23.90	Limonitic Altered Quartz Monzonite C1 TR Py P4 Dark orange, feldspar phyric monzonite as 14.4 - 16.5m; strong sericitization and very strong argillic alteration; no quartz eyes; waxy, clay altered phenocrysts marked with irregular spots of manganese oxide; all biotite completely destroyed; no quartz veinlets; trace dark red

From	To	Geological Log
		limonite after pyrite; incompetent altered chips.
23.90	25.20	Argillite S2 Sk Silicified and stockworked argillite, as 16.5 - 20.8m; limonitic, sericitic coatings.
25.20	48.00	Limonitic Altered Quartz Monzonite C1 TR Py P4 Qe Monzonite with intense pervasive limonitic staining; intensely sericite and clay altered - unit has granular, recrystallized appearance; numerous clear quartz eyes <1/2cm remain as most resistant entity; moderately clay altered k-spar phenocrysts are patterned with spotty manganese oxide; abundant spotty manganese oxide which can be seen on most surfaces. Trace dark red flecks of limonite represent former sulfides - which are likely under represented due to overprinting by strong alterations; rare mm-scale quartz veinlets. 38.0 - 42.0m: Completely homogeneous, sericitized appearance; abundant clay and sericite coats surfaces; rarer quartz eyes. 40.0 - 48.0m: Non-calcareous.
48.00	54.20	Limonitic Altered Quartz Monzonite Qe Intensely limonite stained monzonite as 25.2 - 48.0m, but former sulfides are very, very rare; non-calcareous; excellent phytic textures; k-spar phenocrysts strongly argillically altered; numerous quartz eyes; no quartz veining; biotite altered to limonitic, sericitic shrteds; very rare manganese oxide.
54.20	61.50	Limonitic Altered Quartz Monzonite C2 Qe Dull, greyih orange-brown limonitic altered quartz monzonite; white k-spar phenocrysts <3mm and abundant clear quartz eyes <3mm; good pearly lustre obscured somewhat with weak to moderate sericitization of feldspar-rich matrix; former biotite altered to silver and orange sericitic pseudomorphs; moderately calcareous matrix; no quartz veining; very, very rare disseminated pyrite <1/10mm - fresh to completely oxidized.
61.50	80.00	Graphitic Argillite C3 Very strongly graphitic argillite with very strongly calcareous matrix; rare quartz and/or calcite veinlets; slightly silty; hard, angular fragments; no limonite; no sulfides; consistent qualities throughout.

*** END OF HOLE *** 80.00

HOLE NO: RC97-2033	SECTION: 14640	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST GRID
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL	21829.69mN	14639.79mE	942.99RL
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Pre-collar depth: Final depth: 60.00

Purpose of hole: EXPLORATION

Hole status:

Comments: CONVENTIONAL DRILLING TO 11.0M

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	1.80	LIMONITIC ALTERED
		QUARTZ MONZONITE
1.80	2.30	GRAPHITIC ARGILLITE
2.30	4.50	LIMONITIC ALTERED
		QUARTZ MONZONITE
4.50	25.00	GRAPHITIC ARGILLITE
25.00	29.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
29.00	30.10	GRAPHITIC ARGILLITE
30.10	33.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
33.00	34.90	GRAPHITIC ARGILLITE
34.90	36.10	LIMONITIC ALTERED
		QUARTZ MONZONITE
36.10	43.90	GRAPHITIC ARGILLITE
43.90	46.30	BIOTITE MONZONITE
46.30	50.40	GRAPHITIC ARGILLITE
50.40	51.40	LIMONITIC ALTERED
		QUARTZ MONZONITE
51.40	60.00	GRAPHITIC ARGILLITE
60.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	1.80	<p>Limonitic Altered Quartz Monzonite Qe Dark orange-brown monzonite with strong, even, pervasive limonitic staining; weathered; original textures and features are very well preserved although unit shows strong sericitization; white, moderately to strongly clay-altered k-spar phenocrysts <3mm are occasionally viewed in situ and are often patterned with dendritic and splotchy manganese oxide; former biotite altered to sercitic, limonitic masses on chip surfaces - often retain original crystal form; former biotite is commonly coated with splotchy manganese oxide; minor fresh black biotite; rare clear rounded to sub-cubic quartz eyes <3mm; no quartz veining; non-calcareous matrix; trace very fine (.1/4mm) completely oxidized disseminated pyrite.</p>
1.80	2.30	<p>Graphitic Argillite C2 S1 Sk Gr Graphitic argillite; dominantly hard, angular, silicified fragments with moderate mm-scale milky quartz stockwork; minor softer, intensely calcareous fragments; very thin limonitic coating on some surfaces; no sulfides.</p>
2.30	4.50	<p>Limonitic Altered Quartz Monzonite C1 Strongly weathered, limonitic, weakly calcareous, porphyritic monzonite as 0.0 - 1.8m; no quartz eyes; very rare cloudy calcite fragmnets <2mm; extremely altered and decomposed - easily destroyed; very much as intrusive above, but much more strongly altered; phyrv textures are easily discernible on many fragments; increasingly altered to lower contact.</p>
4.50	25.00	<p>Graphitic Argillite S1 C3 Sk Gr Argillite; very weakly carbonaceous near upper contact, but becoming increasingly carbonaceous to graphitic toward lower contact. Intensely calcareous matrix where non-silicified; instantaneous, vigorous reaction to HCl creates an unpleasant odour. Strong, whitish, opaque mm-scale calcite stockwork, especially near upper contact, but decreasing slightly from 22.0m; weak to moderate, translucent, milky to cloudy mm-size to sub-cm, multiphase quartz stockwork; variable pervasive silicification associated with veining. Minor quantities of limonitic surfaces nearest upper contact; no visible sulfides. Hard, angular fragments with sharp edges; conchoidal fractures locally; rarely silty. From 20.0m: Significant increase in graphite.</p>
25.00	29.00	<p>Limonitic Altered Quartz Monzonite C3 5% Py P1 Mottled greyish-orange, medium and dark orange monzonite; all chips show pervasive limonitic staining of variable intensity; no phytic textures preserved; feldspar-rich matrix shows variable sericitization - felted, and intense locally, to less altered and pearly elsewhere; former biotite as champagne-coloured to pale orange completely sericitized pseudomorphs - occasionally altered beyond recognition. >5% very fine disseminated pyrite <1/10mm and as ultra fine clusters <1mm (which appear to replace former biotite locally); all sulfides are fresh to weakly tarnishes - rarely with dark orange aureoles of staining in adjacent rock; these relatively unoxidized sulfides stand out in contrast to strong staining of matrix. No quartz veining; intensely calcareous matrix. All alterations increase to lower contact.</p>
29.00	30.10	<p>Graphitic Argillite S2 Sk Gr Black, graphitic, siliceous and quartz veined, strongly calcareous argillite; much as 4.5 - 25.0m, but lacks calcite veining; no sulfides; stronger quartz stockwork.</p>
30.10	33.00	<p>Limonitic Altered Quartz Monzonite C3 2% Py P2 Yellowish orange-brown monzonite; strong, even, pervasive limonitic staining; very much as 25.0 - 29.0m, but with stronger alteration of matrix; phytic k-spar crystals dicerned locally; very strongly calcareous matrix; minor silicification right at lower contact. 1-2% pyrite and pyrite clusters with slight tarnish to slightly orange limonitic crusts; rare chips contain <10% pyrite, suggesting that overall sulfide content may be under-represented; manganese oxide coats some disseminated sulfides. Most intensely altered chips (sericitization of feldspar-rich matrix, caly alteration,</p>

From	To	Geological Log
		oxidation) are easily crushed with minor pressure.
33.00	34.90	Graphitic Argillite S2 C3 Sk Gr Black, strongly graphitic, silicified argillite with strong to moderate, clear, cloudy and milky quartz and quartz-calcite stockwork; quartz veinlets of varying phases; quartz-calcite fragments <1cm; moderately calcareous matrix; no sulfides.
34.90	36.10	Limonitic Altered Quartz Monzonite C1 TR Py P4 Dark orange, intensely altered (sericite, limonite and clay) monzonite; all original textures blurred or obscured by alterations; no phyrical minerals; all biotite altered beyond recognition; unit lacks competence and small chips are easily destroyed; intense pervasive limonitic staining; no secondary quartz; moderately calcareous matrix. Some fragments show <5% very weakly oxidized pyrite (as described 25.0 - 29.0m and 30.1 - 33.0m), but most chips show <1% flecks of dark red limonite after disseminated pyrite <1/4mm.
36.10	43.90	Graphitic Argillite C3 S1 Sk Gr Black, very strongly graphitic argillite with weak to moderate mm-scale quartz stockwork; intensely calcareous matrix; rare limonitic patches; no sulfides.
43.90	46.30	Biotite Monzonite C3 Very dark grey, intensely biotitic monzonite; <50% chip surfaces covered with fresh black to bronze-coloured biotite crystals <1mm and rarer larger crystals to 1/2cm; dominantly equigranular; feldspar-rich matrix shows patchy alteration to white clay while other feldspar types show sericitization; intensely calcareous matrix; does not resemble typical main trend intrusives; could be mistaken for sandstone when viewed with an unaided eye; very, very rare, mm-scale quartz-calcite veinlet fragments; trace ultra fine (<<1/10mm) fresh, silvery pyrite appears to replace biotite; sulfides in other occurrences are not seen; differences between adjacent rock types is very obvious in unwashed sample only.
46.30	50.40	Graphitic Argillite S1 C3 Sk Gr Intensely graphitic, calcareous argillite with strong calcite stockwork; weaker quartz stockwork.
50.40	51.40	Limonitic Altered Quartz Monzonite C1 Dull greyish-orange monzonite, as 34.9 - 36.1m; weakly calcareous matrix; rare disseminated, variably oxidized pyrite <<1/4mm observed on only a few chips - sulfides are likely under-represented; strong alterations, as described above; no secondary quartz; original textures blurred or destroyed.
51.40	60.00	Graphitic Argillite S1 C3 Sk Gr Intensely graphitic and calcareous argillite with moderate calcite and weak quartz stockwork; no sulfides; calcite veining less intense than in 46.3 - 50.4m; hard, angular fragments; reaction to HCl creates abundant unpleasant smelling gas and greasy oil slick on liquid surface.

*** END OF HOLE *** 60.00

HOLE NO: RC97-2034	SECTION:14640	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST GRID
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered: 38.0M
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	21859.87mN	14641.51mE	643.37RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 40.00

Purpose of hole: EXPLORATION

Hole status:

Comments: CONVENTIONAL DRILLING TO 6.0M

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00	2.50	ARGILLITE
2.50	8.00	GRAPHITIC ARGILLITE
8.00	11.20	LIMONITIC ALTERED QUARTZ MONZONITE
11.20	12.10	GRAPHITIC ARGILLITE
12.10	14.10	LIMONITIC ALTERED QUARTZ MONZONITE
14.10	16.00	ARGILLITE
16.00	23.50	GRAPHITIC ARGILLITE
23.50	26.00	LIMONITIC ALTERED QUARTZ MONZONITE
26.00	40.00	GRAPHITIC ARGILLITE
40.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.50	<p>Argillite C3 S4 Sk Black, weakly carbonaceous argillite with strong pervasive silicification and intense multiphase sub-cm quartz and quartz-carbonate veining; washed sample consists of >75% quartz; unwashed samples provide instantaneous, vigorous reaction to HCl; weak limonitic staining in some quartz and quartz-calcite veinlets; no visible sulfides.</p>
2.50	8.00	<p>Graphitic Argillite C3 S4 Sk Gr Intensely silicified and stockworked, intensely calcareous, moderately graphitic argillite, much as 0.0 - 2.5m; strongest reaction to HCl comes from unwashed sample and from washed sample fragments which are not pervasively silicified; minor limonitic staining in some quartz; no sulfides.</p>
8.00	11.20	<p>Limonitic Altered Quartz Monzonite C3 S1 Sk 2% Py P3 Greyish to yellow-orange quartz monzonite with weak to moderate pervasive limonitic staining; very rare quartz eyes and rare clay altered phyric k-spar fragments; feldspar-rich matrix shows patchy, locally strong sericitization; most sericite (limonite stained) on chip surfaces is often former biotite, which is also commonly coated with spotty manganese oxide; original pearly lustre is still faintly discernible; intensely calcareous. Weak to moderate, cloudy mm-scale quartz stockwork. >1% fine, disseminated, partially oxidized, occasionally manganese oxide coated pyrite <<1/4mm; sulfide oxidation ranges from weakly tarnished to completely oxidized; oxidation and sulfide content increases to lower contact.</p>
11.20	12.10	<p>Graphitic Argillite C1 S2 Sk Gr Moderately silicified and stockworked, moderately calcareous, weakly graphitic argillite; no sulfides.</p>
12.10	14.10	<p>Limonitic Altered Quartz Monzonite C3 3% Py P1 Dark orange to reddish orange monzonite with strong to locally intense sericitization; original textures are still discernible even though unit has opaque, waxy to felted and sucrosic appearance; intensely calcareous matrix; phyr textures are not preserved; no quartz eyes; former biotite altered to silvery and/or limonitic pseudomorphs - very rarely coated with manganese oxide. <3% pyrite, as very fine disseminations <1/10mm and a lesser slighter coarser grained phase (>1/4mm) of pyrite; all sulfides show strong oxidation which coats surfaces and creates corroded appearance locally; former sulfides also as dark red flecks of limonite; occasional chips show higher concentration of pyrite. No quartz veining.</p>
14.10	16.00	<p>Argillite C3 S3 Sk Silicified, non-carbonaceous argillite, stockworked, intensely calcareous argillite; as 0.0 - 2.5m; no sulfides.</p>
16.00	23.50	<p>Graphitic Argillite C3 Sk Weakly carbonaceous to intensely graphitic, intensely calcareous, weakly silicified argillite; very weak quartz veining; calcite veining decreases from upper contact; trace limonitic surfaces; no sulfides.</p>
23.50	26.00	<p>Limonitic Altered Quartz Monzonite C3 Uniform orange monzonite; original textures overprinted; all chips have homogeneous, recrystallized, finely granular appearance; former biotite altered to limonitic, sericitized, unrecognizable masses; minor patchy manganese oxide on rare surfaces; intensely calcareous; clear and cloudy calcite veinlet fragments <1/2cm; very rare trace dark red flecks of limonite after former disseminated pyrite <1/4mm - sulfide content might be under-represented due to very strong alterations.</p>

From	To	Geological Log
26.00	40.00	Graphitic Argillite C3 Sk Gr Very strongly graphitic argillite; intensely calcareous matrix coupled with weak mm-scale calcite veining - reaction to HCl is instantaneous, violent and creates an unpleasant smelling, visible gas; chips are blocky and angular with sharp edges; weak quartz veining and silicification near upper contact; no sulfides; no variability throughout.

*** END OF HOLE *** 40.00

HOLE NO: RC97-2035

SECTION:14710

GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST GRID
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

NOMINAL 21887.48mN 14710.53mE 681.93RL

Pre-collar depth: Final depth: 56.00

Purpose of hole: EXPLORATION

Hole status:

Comments: CONVENTIONAL DRILLING TO 6.0M.

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00 2.00 OVERBURDEN
 2.00 15.00 GRAPHITIC ARGILLITE
 15.00 25.20 GRAPHITIC ARGILLITE
 25.20 27.10 LIMONITIC ALTERED
 QUARTZ MONZONITE
 27.10 27.70 GRAPHITIC ARGILLITE
 27.70 29.60 LIMONITIC ALTERED
 QUARTZ MONZONITE
 29.60 34.80 GRAPHITIC ARGILLITE
 34.80 44.50 LIMONITIC ALTERED
 QUARTZ MONZONITE
 44.50 45.50 GRAPHITIC ARGILLITE
 45.50 48.00 LIMONITIC ALTERED
 QUARTZ MONZONITE
 48.00 52.00 GRAPHITIC ARGILLITE
 52.00 56.00 GRAPHITIC ARGILLITE
 56.00 END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	2.00	<p>Overburden =>80 ARGG:20 Limonitic Altered Quartz Monzonite C3 S1 Sk Gr Overburden/fill, as determined by drill site technician; damp. Composed of siliceous, stockworked (quartz>calcite) graphitic argillite with <20% very strongly weathered monzonite; no visible sulfides; intensely calcareous locally.</p>
2.00	15.00	<p>Graphitic Argillite S1 Sk Gr Black, strongly to moderately graphitic argillite; minor soft shale horizons, but generally hard, angular fragments; mm-scale quartz veining associated with localized pervasive silicification; non-calcareous, except right at upper 'contact'; no limonitic surfaces; no sulfides. From 8.0m: Minor yellowish clay-like material on rare, but increasingly common surfaces; unit becomes slightly silty.</p>
15.00	25.20	<p>Graphitic Argillite S2 C3 Sk Gr Graphitic argillite, as 2.0 - 15.0m; intensely calcareous matrix - vigorous, instantaneous reaction to HCl creates unpleasant odour; moderate, sub-cm and mm-scale milky and cloudy quartz and quartz-calcite stockwork; veinlets of all composition commonly show dark orange staining; >25% chips show sub-mm, limonitic coatings on at least one surface; hard, angular, blocky fragments; no visible sulfides, although amount of imonitic staining suggests that some sulfides may have been present; rare fragments with intense pervasive limonitic staining; calcite >quartz (in veining) at top of interval changing to quartz>calcite.</p>
25.20	27.10	<p>Limonitic Altered Quartz Monzonite C3 5% Py P4 Medium yellowish-orange quartz monzonite; limonitic staining is weak to moderate - strongest colouration of unit due to limonitic, sericitic masses after former biotite and also due to orange-stained clay and sericite due to alteration of feldspar-rich rock; original textures are well represented with very strongly clay-altered k-spar phenocryst fragments occasionally viewed in situ; no quartz eyes; feldspar-rich, fine grained, equigranular matrix commonly retains pearly, translucent appearance; abundant clay in 'washed sample; quartz is also common but not abundant. Intensely calcareous - reaction to HCl comes from matrix and especially from sericitic, clay-rich, carbonate-rich fines which adhere to chip surfaces and are so common throughout; trace spotty manganese oxide. >5% pyrite as disseminated cubes 1/4mm to >1/10mm - altered completely to dark red limonite pseudomorphs which are starting to corrode to less perfect forms and less commonly to cubes which show very strong pervasive oxidation but still retain original crystal form; oxidized sulfides stand out in strong contrast to matrix. No quartz or carbonate veining.</p>
27.10	27.70	<p>Graphitic Argillite S2 C3 Sk Gr Carbonaceous, quartz-calcite veined argillite, as 15.0 - 25.2m; unit determined at drill site - not accurately represented in the box.</p>
27.70	29.60	<p>Limonitic Altered Quartz Monzonite C3 5% Py P3-P4 Qe Calcareous quartz monzonite, as 25.2 - 27.1m; but with clear and cloudy quartz eyes <2mm; spotty manganese oxide coats former sulfides on many surfaces. >5% dark red cubes of limonite represent former disseminated pyrite; oxidation is slightly less strong than in 25.2 - 27.1m, but is still intensens and pervasive; rare chips show >10% sulfides <1/10mm. Original textures are very well preserved; former biotite as dark orange, sericitic masses; phyric quartz and k-spar are common.</p>
29.60	34.80	<p>Graphitic Argillite C3 S2 Sk Gr Black graphitic argillite with strong to moderate sub-cm, milky quartz stockwork with lesser mm-scale, opaque, milky veinlets and a very strongly calcareous matrix where not pervasively silicified; quartz veining intensifies with depth - <20% quartz by 30.0m; grey clay and/or sericite coatings on surfaces of hard, angular fragments; excellent greasy graphitic surfaces nearest upper contact; some fragments show quartz-healed mocrro brecciation; no sulfieds; very rare limonitic patches.</p>

From	To	Geological Log
34.80	44.50	<p>Limonic Altered Quartz Monzonite C3 TR Py P4 Dark orange to orange-brown quartz monzonite with very strong, even, pervasive limonitic staining; original textures are very well preserved even though matrix shows intense sericitization and weaker argillic alteration - creates felted, granular, recrystallized appearance; clear quartz eyes <4mm are rarely observed; white, clay-altered k-spar phenocrysts <4mm are rarely observed in situ; blurred crystal boundaries of feldspar-rich matrix are always discernible; former biotite as rare silvery pseudomorphs and most commonly as ragged, limonitic, sericitic masses which remain on chip surfaces; very strongly calcareous matrix; abundant splotchy manganese oxide on several surfaces, frequently coating both former biotite and former sulfides; rare clear feldspar crystals <4mm from 42.0m. Trace disseminated cubic pyrite 1/4mm to 1/10mm throughout - evidence of former sulfides is possibly under represented as strong matrix alterations tend to overprint; <5% sulfides near upper contact (to 40.0m) are most commonly viewed on planar surfaces and coated with black manganese oxide. From 44.0m: Intensely altered chips develop homogeneous appearance.</p>
44.50	45.50	<p>Graphitic Argillite C1 S1 Sk Gr Calcareous, graphitic, weakly silicified and stockworked argillite, much as units described above; no sulfides.</p>
45.50	48.00	<p>Limonic Altered Quartz Monzonite C3 S1 Sk 5% Py P4 Deep orange, intensely altered (granular, recrystallized appearance) limonitic monzonite; intense alterations (limonite, clay and sericite) create incompetent, easily destroyed chips; very strongly calcareous; original phytic texture are generally discernible in spite of alterations. Weak quartz stockwork as sub-mm, orange-stained veinlets barren of visible sulfides; localized pervasive silicification. >5% pyrite as manganese oxide coated cubes <1/4mm - not viewed on all fragments, and very rarely with strong pervasive oxidation. Spotty manganese oxide is common throughout as tracings on feldspar and as coatings on biotite; former biotite as limonitic, sericitic shreds and pseudomorphs - very rarely as nearly fresh crystals.</p>
48.00	52.00	<p>Graphitic Argillite C1 S3 Sk Gr Intensely silicified graphitic argillite with intense multiphase clear and cloudy sub-cm and mm-scale quartz stockwork; weakly calcareous where not silicified; no sulfides; very, very rare limonitic patches.</p>
52.00	56.00	<p>Graphitic Argillite C3 S1 Sk Gr Very strongly calcareous, graphitic argillite with weak to moderate quartz and quartz-calcite stockwork; dark orange to red limonitic/hematitic patina on several (<10% chips) surfaces; as 48.0 - 52.0m, but with much less quartz and significantly higher quartz content; no visible sulfides.</p>

*** END OF HOLE *** 56.00

From	To	Geological Log
0.00	1.80	<p>Overburden =>60 ARGG:40 Limonitic Altered Quartz Monzonite Overburden/fill, as determined by drill site technician. Mixed lithologies, possibly arranged as follows: 0.0 - 1.2m: Graphitic Argillite S2 Sk Gr Silty, weakly graphitic argillite with moderate pervasive silicification and moderate to strong sub-mm milky and cloudy quartz stockwork; clay and/or sericite on several surfaces; minor limonite; no carbonate; no sulfides. 1.2 - 1.8m: Limonitic Altered Quartz Monzonite C2 1% Py P4 Orange, weathered quartz monzonite with variable pervasive limonitic staining; calcareous matrix; original phyrlic textures moderately well preserved; abundant sericite; no secondary quartz; 1-2% pyrite altered to dark red disseminated limonite; as below.</p>
1.80	2.50	<p>Limonitic Altered Quartz Monzonite C1 1% Py P4 Orange limonitic altered quartz monzonite, as described 1.2 - 1.8m; <1% pyrite as dark red to black, manganese oxide coated, disseminated cubes <1/2mm; weakly calcareous; phyrlic textures destroyed; former biotite as limonitic, sericitic masses which remain on chip surfaces; no secondary quartz.</p>
2.50	14.00	<p>Argillite ->ARGG S2 Sk Black non- to weakly graphitic argillite; siliceous, hard, angular fragments; cherty to silty; weak to moderate cloudy and milky quartz stockwork - veinlets occasionally with weak pervasive limonitic staining; minor micro brecciation; >10% chips with very dark orange pervasive limonitic hue and/or limonitic patina on fracture surfaces - often associated with pervasive silicification; no calcite veinlets; no modal carbonate; no sulfides; transitional into:</p>
14.00	24.00	<p>Shale Dark grey, silty shale; platy, soft, non-siliceous chips often show fine bedding laminations; fine limonitic patina on planar surfaces which cut primary bedding; rare fragments with pervasive limonitic staining; rare quartz veining; not calcareous; no sulfides. 24.0 - 26.0m: Very, very weakly carbonaceous component; <25% chips show limonitic surfaces or staining.</p>
24.00	32.00	<p>Graphitic Argillite S1 C3 Sk Gr Dark grey to black, moderately graphitic, silicified argillite; intensely calcareous matrix; weak to moderate pervasive silicification locally; weak to locally moderate mm-scale cloudy and milky quartz stockwork; strong to moderate, waxy, creamy, sub-cm calcite and quartz-calcite stockwork; all veining shows weak pervasive limonitic staining locally; no visible sulfides; trace limonitic surfaces. 28.0 - 32.0m: <50% shale, as 14.0 - 24.0m; extremely poorly washed and contains large (>1.5cm) clots of clay-rich muddy fines.</p>
32.00	38.00	<p>Graphitic Argillite C1 S1 Sk Gr As 24.0 - 32.0m, with significantly decreased calcite>quartz veining; less pervasive silicification; strongly calcareous but strongest reaction to HC comes from unwashed fines; no sulfides; occasional limonitic surfaces; increasingly graphitic to lower contact; quartz content increases to lower contact.</p>
38.00	46.80	<p>Graphitic Argillite S2 Sk Gr Siliceous, stockworked graphitic argillite, as 2.5 - 14.0m; secondary quartz is frequently orange and/or red stained; very weakly calcareous matrix; rare calcite veinlets; intensity of quartz stockwork increases to lower contact, where it becomes intense; occasional limonitic surfaces; no sulfides.</p>
46.80	49.70	<p>Limonitic Altered Quartz Monzonite C3 S1 3% Py P4 Rich dark orange to red-orange monzonite with very strong to intense pervasive limonitic staining; intensely sericitized and clay altered, oxidized unit has granular, crumbly, extremely incompetent appearance which still manages to display original textures of fine grained, equigranular matrix; very, very weakly silicified locally, especially nearest upper contact; hematitic chips typically have sub-vitreous lustre; chip surfaces coated with sericitic, clayey, limonitic patches and shreds which represent total alteration of former biotite plus alteration of</p>

From	To	Geological Log
		<p>other modal constituents; phyrk k-spar is not preserved; no quartz eyes; minor spotty manganese oxide as irregular coatings on some former biotite; no quartz veins; very strongly calcareous matrix.</p> <p>>3% fine (<1/4mm) disseminated pyrite cubes have completely altered to dark red limonite; sulfide content (based on limonitic pyrite pseudomorphs) are likely under represented due to intense alterations which tend to destroy and overprint some features; also, intensity and hue of limonitic staining suggests and enhanced former sulfide content.</p>
49.70	50.10	<p>Graphitic Argillite S1 Sk Gr</p> <p>Stockworked, graphitic argillite, as 38.0 - 46.8m.</p>
50.10	53.40	<p>Limonitic Altered Quartz Monzonite C3 S1 Sk 5% Py P4</p> <p>Dark orange monzonite, much as 46.8 - 49.7m; chips have opaque, felted to granular, homogeneous appearance due to intense alterations; former biotite, although strongly sericitized and stained, more frequently retains and displays original crystal form; phyrk textures are not preserved; strongly calcareous matrix; very weak sub-mm orange-stained quartz stockwork; spotty manganese oxide throughout.</p> <p>May contain <5% weakly oxidized pyrite - limonitic pseudomorphs are observed on only a few chips and their occurrences are subtle due to overprinting by strong alterations.</p> <p>Textures improve to lower contact; biotite is much better preserved.</p>
53.40	57.50	<p>Limonitic Altered Quartz Monzonite C3 S1 Sk 2% Py P2 Qe</p> <p>Deep, uniform, dark orange monzonite, much as 50.1 - 53.4m; phyrk textures destroyed but all other original textures are easily discerned; fine grained, equigranular feldspar-rich matrix shows intense sericitization locally which creates incompetent, felted to sucrosic, recrystallized appearance; former biotite is abundant as fine limonitic, sericitic pseudomorphs which remain in situ; manganese oxide is rare but can be seen on several, usually planar surfaces; trace mm-scale clear quartz stockwork; strongly calcareous matrix; rare clear calcite fragments <4mm; rare quartz eyes <3mm near lower contact.</p> <p><2% pyrite as rare fine disseminations <1/5mm and as ultra fine cludters which appear to replace former biotite; sulfides usually show only slightest tarnish to weak superficial oxidation, which may be associated with sub-mm aureole of staining in adjacent rock; rare sulfides completely oxidized and/or coated with manganese oxide.</p>
57.50	80.00	<p>Graphitic Argillite S1 Sk Gr</p> <p>Black argillite; increasingly graphitic to end of hole; cherty to silty; siliceous matrix; blocky, angular fragments with smooth surfaces and sharp edges; excellent graphitic sheen locally; weak to moderate milky quartz stockwork; no sulfides; very dark orange limnitic patina on a few planar surfaces; not calcareous.</p>

*** END OF HOLE *** 80.00

HOLE NO: RC97-2037 SECTION: 14870 GRID: MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST GRID
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED 21889.80mN 14870.18mE 694.17RL

Pre-collar depth: Final depth: 44.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	0.00	-55.00

*** SUMMARY LOG ***

0.00 3.00 OVERBURDEN
 3.00 5.90 SILTSTONE (EARN GROUP)
 5.90 10.10 LIMONITIC ALTERED
 QUARTZ MONZONITE
 10.10 14.00 LIMONITIC ALTERED
 QUARTZ MONZONITE
 14.00 16.10 LIMONITIC ALTERED
 QUARTZ MONZONITE
 16.10 24.80 LIMONITIC ALTERED
 QUARTZ MONZONITE
 24.80 44.00 GRAPHITIC ARGILLITE
 44.00 END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	3.00	Overburden =>SLT:ARG:LAQM Fill/overburden, as determined by drill site technician. Mixed lithologies, consisting of siltstone, argillite, and oxidized monzonite; limonitic, silty skins on most surfaces; some rounded pebbles; brownish unwashed sample slightly resembles soil.
3.00	5.90	Siltstone (Earn Group) 60:40 Argillite Medium grey siliceous siltstone (resembles Steel Formation but is non-calcareous) with <40% black, non-graphitic argillite; weak milky quartz stockwork; no sulfides; thin limonitic patina on several surfaces.
5.90	10.10	Limonitic Altered Quartz Monzonite White to pale beige, bleached quartz monzonite; unit likely once contained significant orange staining which has subsequently leached away; this is NOT fresh rock; original textures are blurred but still discernible; former biotite completely altered away; strong argillic alteration locally; very, very rare quartz eyes <2mm; occasional strongly clay altered k-spar phenocrysts <4mm; occasional sub-rounded void space; very, very rare boxworks possibly indicate former sulfides; in general, all features and textures of this rock have been altered out and/or washed away; non-calcareous; very, very rare clear quartz hairline veinlets; minor pervasive limonitic staining on <5% chips.
10.10	14.00	Limonitic Altered Quartz Monzonite C1 6% Py P4 Medium orange-brown monzonite; excellent feldspar phyric texture with lighter, orange-stained k-spar phenocrysts <5mm (usually as detached fragments), occasionally with irregular spots of manganese oxide; fine grained, equigranular feldspar-rich matrix retains original textures and pearly lustre although it does display patchy sericitization; former biotite as dark orange-brown, limonitic, sericitic, variably preserved crystals; samples contain abundant clay. >6% completely oxidized, dark red pyrite (as limonite flecks) to <1/10mm accompanied by empty, non-limonitic boxworks; where limonite/pyrite hasn't completely altered out and washed away the former crystals may be coated with irregular blobs of manganese oxide. Very weakly calcareous; no secondary quartz or quartz veining.
14.00	16.10	Limonitic Altered Quartz Monzonite C3 Orange-brown limonitic altered quartz monzonite with excellent original textures; abundant clay altered k-spar phenocrysts <6mm; great pearly lustre; intensely calcareous matrix; former biotite as numerous bright orange and orange-brown limonitic, sericitic pseudomorphs which give unit the greatest colouration; staining of matrix is weak to moderate - increasingly intense to end of interval; no quartz eyes or quartz veinlets; trace completely oxidized disseminated pyrite.
16.10	24.80	Limonitic Altered Quartz Monzonite C3 5% Py P4 Qe Monzonite, as 14.0 - 16.1m, but with 3-8% (decreasing to end) dark red to black (when coated with manganese oxide) sub-cubic limonite after pyrite crystals 1/2mm to <1/10mm - all sizes of sulfides shows the same intensity of oxidation which decreases slightly with depth; former sulfides provide strong contrast against moderately stained matrix; sulfides may be coated with splotchy manganese oxide. Less phyric k-spar as above interval; less argillic alteration; rare clear quartz eyes <3mm; strongest pervasive limonitic staining right at lower contact; intensely calcareous.
24.80	44.00	Graphitic Argillite C2 S1 Sk Gr Black argillite; increasingly graphitic with depth; siliceous matrix; hard, angular chips; slightly silty; moderately calcareous matrix; weakly to locally moderate quartz and cloudy quartz>quartz-calcite stockwork; rare quartz veinlets with hematitic/limonitic staining and very, very rarely containing oxidized pyrite; quantity of quartz and calcite decreases with depth; very little variation throughout interval.

*** END OF HOLE *** 44.00

HOLE NO: RC97-2038	SECTION:	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : WEST GRID
 HOLE TYPE : RC

*** DRILLING SUMMARY ***

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** COLLAR COORDINATES AND RL ***

SURVEYED	21886.40mN	14958.11mE	674.03RL
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*** SIGNIFICANT ASSAYS ***

From	To	Width

Pre-collar depth: Final depth: 42.00

Purpose of hole: EXPLORATION

Hole status:

Comments: CONVENTIONAL DRILLING TO 6.0M.

*** SURVEY DATA ***

Survey Method: NONE

Depth	Azimuth	Inclination
0.00	338.00	-55.00

*** SUMMARY LOG ***

0.00	5.50	OVERBURDEN
5.50	6.30	GRAPHITIC ARGILLITE
6.30	15.70	LIMONITIC ALTERED QUARTZ MONZONITE
15.70	20.00	GRAPHITIC ARGILLITE
20.00	21.90	GRAPHITIC ARGILLITE
21.90	25.70	LIMONITIC ALTERED QUARTZ MONZONITE
25.70	42.00	GRAPHITIC ARGILLITE
42.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	5.50	<p>Overburden =>LAQM:ARG Overburden, as determined by drill site technician; wet. Mixed lithologies, possibly arranged as follows: 0.0 - 1.0m: Limonitic Altered Quartz Monzonite C2 3% Py P4 Dark orange quartz monzonite with strong, even pervasive limonitic staining; original textures are usually well preserved; moderately to strongly calcareous matrix; former biotite on chip surfaces as bright orange and orange-brown pseudomorphs and limonitic shreds; <3% cubic, disseminated pyrite <1/4mm has completely altered to limonitic pseudomorphs. 1.0 - 3.0m: Argillite S2 Sk Hard, black argillite; non-carbonaceous; siliceous; moderate to strong clear and milky quartz stockwork with associated silicification; no sulfides; minor sericitization of modal feldspar creates weakly spotted appearance; contains some siltstone and rare, rounded, equigranular intrusive pebbles. 3.0 - 4.6m: Limonitic Altered Quartz Monzonite C3 5% Py P3 Intrusive, as 0.0 - 1.0m; <5% disseminated cubic pyrite <1/4mm - oxidation ranges from complete alteration to limonite to surface oxidation and corrosion (P4-P2); rare chips show very high concentrations of sulfides. 4.6 - 5.5m: Graphitic Argillite S3 Sk Gr Weakly to moderately graphitic, silicified, strongly quartz veined argillite; minor micro brecciation; non-calcareous; no sulfides; slightly silty; patchy limonite.</p>
5.50	6.30	<p>Graphitic Argillite S3 Sk Gr Stockworked graphitic argillite as 4.6 - 5.5m.</p>
6.30	15.70	<p>Limonitic Altered Quartz Monzonite C3 Quartz monzonite; pervasive limonitic staining of wildly variable intensity; unit ranges from pale beige, bright orange to orange-brown in colour; original textures are excellently preserved; phryic k-spar as waxy, creamy, clay altered phenocrysts <4mm - porphyritic textures decrease to end of interval; abundant former biotite as ragged limonitic, sericitic shreds and pseudomorphs which remain on chip surfaces; very strongly calcareous matrix - argillic alteration strongest where k-spar phenocrysts are no longer observed in situ (from 10.0m); intense limonitic, sericitic and argillic alteration, accompanied by manganese oxide bands, along probable fractures - these chips are easily destroyed; no quartz eyes. 10.0 - 12.0m: <20% fragments lack pervasive limonitic staining = leaching, NOT fresh rock. 12.0 - 14.0m: <70% fragments lack pervasive limonitic staining = leaching, NOT fresh rock. Very, very rare pervasve silicification of matrix; no quartz veining. Rare, trace quantities of very fine (1/10mm), completely oxidized, disseminated cubic pyrite. From 14.0m: Very, very strong alteration; fragments develop homogeneous appearance; waxy to felted appearance due to sericitization, argillic alteration and limonite; original textures blurred; former biotite no longer recognizeable.</p>
15.70	20.00	<p>Graphitic Argillite S2 Sk Gr Graphitic argillite; usually very fine grained but tends to be very slightly silty locally; hard, angular, siliceous fragments with smooth surfaces and very sharp edges; moderate to very strong, multiphase cloudy to milky mm-scale quartz stockwork, associated with pervasive silicification locally and some micro brecciation; up to 30% secondary quartz in some sample intervals; non-calcareous; no sulfides; no limonitic surfaces.</p>
20.00	21.90	<p>Graphitic Argillite C3 S2 Sk Gr Silicified, stockworked graphitic argillite as 15.7 - 20.0m, but with strongly calcareous matrix and quartz stockwork contains some carbonate.</p>
21.90	25.70	<p>Limonitic Altered Quartz Monzonite C3 TR Py P4 Very rich, dark orange to slightly reddish orange monzonite; very strong to intense, even, pervasive limonitic staining; opaque and earthy intense pervasive sericitization - unit has granular, felted to recrystallized, homogeneous, extremely altered appearance; chips are</p>

From	To	Geological Log
		<p>easily crushed with minor pressure; any phytic minerals have been altered away; no quartz eyes and very rare, fine modal quartz; original textures of matrix are still discernible; former biotite altered to unrecognizable limonitic, sericitic shreds and wisps which still cling to fresh surfaces; <2% chips with fresh to weakly altered black biotite - also on chips with intensely sericitized, clay altered matrix; intensely calcareous.</p> <p>Likely once contained significant sulfides but only trace limonitic pseudomorphs <1/2mm (usually <1/4mm) are still preserved as recognizable evidence; strong pervasive limonitic staining is likely due to oxidation and subsequent decomposition of former sulfides.</p>
25.70	42.00	<p>Graphitic Argillite C3 S1 Sk Gr</p> <p>Argillite; increasingly graphitic to end of interval; hard, angular fragments; cherty to silty variations; intensely calcareous matrix where not silicified - violent reaction to HCl creates visible, unpleasant smelling gas; weak milky quartz and/or quartz-calcite veining; very rare limonitic surfaces; no sulfides.</p> <p>30.0 - 38.0m: Decreased modal carbonate - reaction to HCL is much more subdued.</p> <p>From 36.0m: Very, very rare quartz veinlets; calcite stockwork dominates but is still weak to moderate.</p>

*** END OF HOLE *** 42.00

TRENCHES

HOLE NO: TR97-BO3	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	98.00
Drill contractor:		
Drill rig:		
Date started: 22/2/98		
Date finished: 22/2/98		
Logged by: ??(CONVERTED BY VPARK 17		
Relogged by: FEB 98)		
Sampled by:		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 98.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments: RE-DO OF 4 JUNE 97 MAP, THIS MAP DOES NOT RESEMBLE EARLIER MAP.

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	6.00	ARGILLITE
6.00	12.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
12.00	25.00	ARGILLITE
25.00	42.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
42.00	48.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
48.00	57.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
57.00	62.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
62.00	64.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
64.00	66.00	ALTERED QUARTZ
		MONZONITE
66.00	72.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
72.00	80.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
80.00	84.00	ALTERED QUARTZ
		MONZONITE
84.00	86.00	ARGILLITE
86.00	90.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
90.00	93.00	LIMONITIC ALTERED
		QUARTZ MONZONITE
93.00	98.00	ALTERED QUARTZ
		MONZONITE
98.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	6.00	Argillite Intensely, altered and fractured; contacts not indicated; argillite.
6.00	12.00	Limonitic Altered Quartz Monzonite Intensely fractured; altered; lenses blocky; note: schematic indicates an intrusive contact; intrusive.
12.00	25.00	Argillite Ft Fault zone; argillite and white gouge, right contact marked by fault = 014/50.
25.00	42.00	Limonitic Altered Quartz Monzonite Blocky intrusive; moderately fractured; Mg02 (Mn02?-vp); curilinear right contact 34.0-38.0m: Altered Quartz Monzonite - altered is large feldspars; schematic shows this is as a wedge.
42.00	48.00	Limonitic Altered Quartz Monzonite Intrusive; intensely to highly altered; purplish. 44.0-46.0m: sheared.
48.00	57.00	Limonitic Altered Quartz Monzonite :AQM Intrusive; blocky; moderately fractured; schematic shows gouge at floor/wall contact at 53.0m: fault = 30 degrees dip.
57.00	62.00	Limonitic Altered Quartz Monzonite Light grey; gougy, mylonitic material; schematic indicates that intrusive is still intrusive (Limonitic Altered Quartz Monzonite).
62.00	64.00	Limonitic Altered Quartz Monzonite Intensely fractured, orange, sandy intrusive. At 62.0m: fault = 355/40.
64.00	66.00	Altered Quartz Monzonite Light grey intrusive; sandy; schematic indicates 'Mg02'. Unbalanced ".
66.00	72.00	Limonitic Altered Quartz Monzonite 66.0-70.0m: Intrusive, but black by 'Mg02'; moderately to highly fractured. 66.0-72.0m: sandy-like; orange; intensely fractured.
72.00	80.00	Limonitic Altered Quartz Monzonite Sandy intrusive; contact at 80.0m = 035/25.
80.00	84.00	Altered Quartz Monzonite Light grey-green intrusive.
84.00	86.00	Argillite Argillite; fault (?-vp); right contact = 040/20.
86.00	90.00	Limonitic Altered Quartz Monzonite Reddish intrusive; moderately to highly fractured; right contact = 030/15. 78.0-86.0: Like fault zone, but with mixed lithologies (AQM/ARG/LAQM).
90.00	93.00	Limonitic Altered Quartz Monzonite Sandy intrusive bottom and argillite top (or 'Mg02s); schematic indicates shearing and a small fault at 045/60; argillite = 045/30.
93.00	98.00	Altered Quartz Monzonite Flooded altered quartz monzonite, moderately to highly fractured.

*** END OF HOLE *** 98.00

HOLE NO: TR97-BO4	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	34.00
Drill contractor:		
Drill rig:		
Date started:	19/2/98	
Date finished:	19/2/98	
Logged by:	??? (CONVERTED BY VPARK 18	
Relogged by:	FEB 98)	
Sampled by:		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 34.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	30.00	LIMONITIC ALTERED QUARTZ MONZONITE
30.00	34.00	ARGILLITE
34.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	30.00	<p>Limonitic Altered Quartz Monzonite S2, P4 Limonitic altered quartz monzonite. 0.0-2.0m: Intensely fractured (sandy); carbonituous (?-vp); ~2% limonite. 2.0-5.0m: Carbonituous; intensely fractured (sandy); 1-3% limonite - fractures and pervasive; P4; S2-S3 (?) flooding. At 10.0m: 10 cm gouge - filled fault - 020/78. 10-20.0m: (Note: from this point the 2 existing trench maps no longer resemble each other - vp) Intensely fractured; moderately to intensely altered (sandy areas); small pocket with no limonite; 2-3% limonite trace to 1% MgO₂ (possibly MnO₂ ? - vp); cleavage = 040/70 at 13.0m: sub- vertical fault gouge which terminates at fault gouge 020/30. At 20.0m: Lithological contact? = 138/31. 20.0 - 30.0m: Blocky; 1% limonite; less altered; more argillite. 4.0 - 20.0m: Interval returned very high assay results.</p>
30.00	34.00	<p>Argillite Argillite; sandy.</p>

*** END OF HOLE *** 34.00

HOLE NO: TR97-B05

SECTION:

GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	34.00
Drill contractor:		
Drill rig:		
Date started:	19/2/98	
Date finished:	19/2/98	
Logged by:	???? (CONVERTED BY VPARK	
Relogged by:	17 FEB 98)	
Sampled by:		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 34.00

Purpose of hole: EXPLORATION

Hole status:

Comments: (SEE OTHER LOGS); LOG
 LACKS TEXT - IM MAKING MY
 BEST GUESSES -VP

Material left in hole:

Base of complete oxidation

Top of fresh rock:

Water first encountered:

Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	4.00	GRAPHITIC ARGILLITE
4.00	28.00	LIMONITIC ALTERED QUARTZ MONZONITE
28.00	32.00	LIMONITIC ALTERED QUARTZ MONZONITE
32.00	34.00	GRAPHITIC ARGILLITE
34.00		END OF HOLE

Checked and signed: _____

Date: _____

From	To	Geological Log
0.00	4.00	Graphitic Argillite Footwall argillitic; schematic indicates sharp contacts.
4.00	28.00	Limonitic Altered Quartz Monzonite Limonitic altered quartz monzonite; cleavage = 000/70, 020/60; small fault 20.0m = 020/40; right contact = 015/30.
28.00	32.00	Limonitic Altered Quartz Monzonite Intrusive?? - difficult to tell from sketch; possibly blocky and intensely sheared; at 28.0m, fault gouge = 025/70 - high associated Au values.
32.00	34.00	Graphitic Argillite Argillite - assuming graphitic.

*** END OF HOLE *** 34.00

HOLE NO: TR97-B06	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	27.00
Drill contractor:		
Drill rig:		
Date started: 19/2/98		
Date finished: 19/2/98		
Logged by: ??? (CONVERTED BY VPARK 17		
Relogged by: FEB 98)		
Sampled by:		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 27.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	27.00	SILTSTONE (STEEL FORMATION)
27.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	27.00	<p>Siltstone (Steel Formation) C1-C3, S2 Steel formation siltstone; all assay results were <0.11 g/t - too calcareous ?; increasingly calcareous to left (west ??) according to schematic: -vp. At 0.0m: sketch indicates Limonitic Altered Quartz Monzonite (to right or east, if map looks north) in contact with a narrow band (dimensions impossible to discern) with the notation 'Graphitic footwalls = 065/20; Limonitic Altered Quartz Monzonite is intensely fractured with 2-3% limonite; site of vertical channel Sample A. Sample B: vertical channel, to left of A; intensely fractured; trace to 1% limonite on fractured surfaces. Sample C: vertical channel, to left of B; intensely fractured; 1% limonite on fracture surfaces, carbonate; some sort of narrow band (graphitic argillite?) passes through sample-apparently at similar orientation to footwall. Sample D: vertical channel, to left of C; blocky; moderately fractured; 10/0 limonite on fractures and staining quartz stringers; S2, C1. Sample E: vertical channel, to left of D; as sample D. Sample F: S2, C2 vertical channel; to left of E: intensely fractured; 2% limonitic fracture surfaces. Sample H: vertical channel at 27.0m; intensely to highly fractured; 2% limonitic fractures; pervasive limonite too; S2, C3.</p>

*** END OF HOLE *** 27.00

From	To	Geological Log
0.00	4.00	Graphitic Argillite Stockwork Graphitic argillite, trace limonite; trace stockwork.
4.00	16.00	Siltstone (Steel Formation) Stockwork, trace Pyrite, P3 Steel formation siltstone; intensely fractured; tan-grey; minor hairline. Stockwork lined with white clay (montmorillonite); 1% limonite; trace pyrite, nearly completely oxidized (P3); fault contact with intrusive = 080/20.
16.00	36.00	Limonitic Altered Quartz Monzonite Stockwork Limonitic altered quartz monzonite; moderately altered; bleached remnant biotite visible; primarily competent/blocky with minor sandy sections.
36.00	38.00	Quartz Monzonite Quartz monzonite; 2% limonite; very weakly altered biotite.

*** END OF HOLE *** 38.00

From	To	Geological Log
0.00	18.00	Shale Moderately to intensely fractured black shale; alteration increases toward intrusive contact 12.0 - 18.0m: Blocky; intensely fractured; brecciated with weak to moderate silica; intense MnO ₂ staining; cleavage = 016/90; left contact = 100/60. 10.0-12.0m: prominent cleavage = 035-045/90.
18.00	46.00	Limonitic Altered Quartz Monzonite S1-S2 Stockwork Limonitic altered quartz monzonite; bleached; moderate to intense argillic alteration; moderately competent with minor sandy seams along structures. 18.0-20.0m: bleached 20.0-22.0m: blocky; more strongly silicified (S2). 22.0-28.0m: incompetent; sandy; sandy structures = 010/90. 28.0-46.0m: overburden starts and reaches floor of trench by 46.0.

*** END OF HOLE *** 46.00

HOLE NO: TR97-BO9	SECTION:	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	42.00
Drill contractor:		
Drill rig:		
Date started:	19/2/98	
Date finished:	19/2/98	
Logged by:	R.DIMENT (CONVERTED BY	
Relogged by:	VPARK 17 FEB 98)	
Sampled by:		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 42.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments: SEE OTHER LOGS

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	12.00	SILTSTONE (STEEL FORMATION)
12.00	15.00	SILTSTONE (STEEL FORMATION)
15.00	18.00	ARGILLITE
18.00	29.50	OVERBURDEN
29.50	31.00	ARGILLITE
31.00	41.00	OVERBURDEN
41.00	42.00	LIMONITIC ALTERED QUARTZ MONZONITE
42.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	12.00	Siltstone (Steel Formation) :ARGG Intensely fractured steel formation siltstone and minor graphitic argillite; prominent fracture cleavage = 066/80; fine white clay along hairline fractures.
12.00	15.00	Siltstone (Steel Formation) Blocky, intensely stockworked (clay) and fractured cherty steel formation siltstone; strong micro-fracturing, lined with white clay.
15.00	18.00	Argillite :SST Heavily sheared cherty argillite and minor limonitic siltstone; bedding appears horizontal or gently north dipping; maybe result of down-slope creep or solifluction near surface.
18.00	29.50	Overburden Overburden/slough.
29.50	31.00	Argillite :SST Argillite and siltstone; as 15.0-18.0m.
31.00	41.00	Overburden Overburden/slough as 18.0-29.5; topped by Limonitic Altered Quartz Monzonite, which takes over entire depth by 41.0m.
41.00	42.00	Limonitic Altered Quartz Monzonite Limonitic altered quartz monzonite.

*** END OF HOLE *** 42.00

From	To	Geological Log
0.00	2.00	Chert Intensely fractured chert with abundant white clay lining fractures and fracture surfaces; clay is moderately to strongly limonitic. Note: Schematic shows chert to be an angular wedge which is possibly completely encased within altered quartz monzonite (Altered Quartz Monzonite).
2.00	3.00	Altered Quartz Monzonite Altered quartz monzonite; majority bleached, according to map.
3.00	5.00	Graphitic Argillite :CH Graphitic argillite; with chert, as described 0.0-2.0m; left contact = 080.
5.00	7.00	Limonitic Altered Quartz Monzonite Limonitic altered quartz monzonite, 3% limonite; biotite completely altered.
7.00	9.00	Graphitic Argillite :CH Argillite and chert; as 3.0-5.0m.

*** END OF HOLE *** 9.00

HOLE NO: TR97-BO11	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	62.00	
Drill contractor:			
Drill rig:			
Date started:	19/2/98		
Date finished:	19/2/98		
Logged by:	?? (CONTACTED BY VPARK 17		
Relogged by:	FEB 98)		
Sampled by:			

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 62.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments: SEE OTHER LOGS

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	2.00	SILTSTONE (STEEL FORMATION)
2.00	12.00	GRAPHITIC ARGILLITE
12.00	18.00	SILTSTONE (STEEL FORMATION)
18.00	30.00	LIMONITIC ALTERED QUARTZ MONZONITE
30.00	38.00	SILTSTONE (STEEL FORMATION)
38.00	48.00	LIMONITIC ALTERED QUARTZ MONZONITE
48.00	52.00	SILTSTONE (STEEL FORMATION)
52.00	60.00	SILTSTONE (STEEL FORMATION)
60.00	62.00	GRAPHITIC ARGILLITE
62.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Siltstone (Steel Formation) C1, S2, Stockwork, P4 Steel formation siltstone; moderately fractured; 1-2% limonite on fracture surfaces; quartz stringers; calcareous (C1-C2) on surfaces; oxidized sulfides (P4); grey-green-black; S2-S3; right quartz at 160 degrees/165 degrees - marked by orange fractures/fault-no gouge; intensely fractured at 170/70.
2.00	12.00	Graphitic Argillite Gr. Graphitic argillite; highly to intensely fractured; some limonite and white clay.
12.00	18.00	Siltstone (Steel Formation) S2, P4 Steel formation siltstone; moderately to highly fractured; 2-5% limonite on fractures - also pervasive; S1-S3, grey orange, P4-pitted; less quartz stringers. Note: from schematic - 14.0-15.0: wedge of graphitic argillite; 15.0-18.0m: gouge face; sharp looking right contact at 014/75.
18.00	30.00	Limonitic Altered Quartz Monzonite Limonitic altered quartz monzonite; moderately fractured; blocks; 1-2% limonitic fractures; feldspar altered to clay; cleavage = 045/90, 170/80.
30.00	38.00	Siltstone (Steel Formation) Graphite Steel formation siltstone; graphitic; trace to 1% limonite on fractures; intensely to highly fractured.
38.00	48.00	Limonitic Altered Quartz Monzonite Intrusive; moderately fractured; blocky; cleavage = 175/85.
48.00	52.00	Siltstone (Steel Formation) S2 Steel formation siltstone; grey; S2; moderately to highly fractured; 1-3% limonite.
52.00	60.00	Siltstone (Steel Formation) Graphite. Graphitic steel formation siltstone; intensely fractured.
60.00	62.00	Graphitic Argillite Graphite. Graphitic argillite; intensely fractured; schematic indicates rubble at floor/wall contact.

*** END OF HOLE *** 62.00

HOLE NO: TR97-BO12	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : BOHEMIAN ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	60.00
Drill contractor:		
Drill rig:		
Date started:	19/1/98	
Date finished:	19/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 60.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	15.30	LIMONITIC ALTERED QUARTZ MONZONITE
15.30	15.50	GRAPHITIC ARGILLITE
15.50	17.00	ALTERED QUARTZ MONZONITE
17.00	18.00	GRAPHITIC ARGILLITE
18.00	39.40	ALTERED QUARTZ MONZONITE
39.40	47.20	SHALE
47.20	48.80	LIMONITIC ALTERED QUARTZ MONZONITE
48.80	50.00	SHALE
50.00	60.00	ALTERED QUARTZ MONZONITE
60.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	15.30	Limonitic Altered Quartz Monzonite C2, S0, P4, 6% Lm Pink with reddish brown oxidation surfaces, blocky to crushed and sheared. Occasional green blocks -> chloritization? Road surface has some unoxidized q-s-p alteration with ~2% fg diss steely py and local blebs <1mm.
15.30	15.50	Graphitic Argillite C0, S0, P4, tr Lm Crushed and sheared, wet/frozen black argillite, almost appears injected along shear plane and into tensional zone.
15.50	17.00	Altered Quartz Monzonite C0, S1, P4, 1% Lm White, crushed, soft argillized (?) Quartz Monzonite, bleached with crushed qtz (?) looks similar to "white dike" in fault at E. Big Rock.
17.00	18.00	Graphitic Argillite C0, S0, P4, tr Lm Black, sheared, graphitic argillite.
18.00	39.40	Altered Quartz Monzonite C1, S1, P4, 2% Lm Tan, blocky, weakly limonitic quartz-ser altered Quartz Monzonite, cut by several vertical faults and local close-spaced fracture zones. -Biograins -> ser & lim, but little porosity. -Near base is a minor flat shear with feather joints.
39.40	47.20	Shale ->SHG, C0, S0, P4 tr Lm Sheared light green to black-graphitic shale. Broken and disaggregated bedding, no relic and macrotexture, locally gougy. Scoradite stain common. Fragments of Limonitic Altered Quartz Monzonite in shale.
47.20	48.80	Limonitic Altered Quartz Monzonite C0, S0, P4, 10% Lm Reddish brown, gossanous apophysis of Quartz Monzonite qz-ser alt -> strongly weathered. Appears to be a fault slice or an injection along a fault plain. Limonite appears to extend beyond Limonitic Altered Quartz Monzonite into the Shale.
48.80	50.00	Shale C0, S0, P4, 1% Lm -> Graphitic Shale Light green ->black sheared Shale, contacts uncertain/irregular.
50.00	60.00	Altered Quartz Monzonite -> Limonitic Altered Quartz Monzonite, C1, S1, P3, 5% Lm Pinkish brown, blocky, dense AQM/LAQM with local islands of relict qtz-ser-py alteration with 1% ragged blebs of rimmed steely pyrite.

*** END OF HOLE *** 60.00

HOLE NO: TR97-CL5	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	123.00
Drill contractor:		
Drill rig:		
Date started:	19/1/98	
Date finished:	19/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 123.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	3.00	LIMONITIC ALTERED SYENITE
3.00	63.50	LIMONITIC ALTERED SYENITE
63.50	111.00	FAULT
111.00	123.00	LIMONITIC ALTERED SYENITE
123.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	3.00	Limonitic Altered Syenite CO, SO, P4, 8% Lm Probable Syenite, texturally destroyed. Extremely weathered C horizon soil/regolith. Local in-place rock has NNE sheeted jointing.
3.00	63.50	Limonitic Altered Syenite CO, SO, P4, 10% Lm Tan-brown, limonitic altered Syenite. Texturally destroyed, nomatic pheno crystals, partial repl. Rivergrowth of feldspar grains. Local waxy luster most rock is weathered (clay) feldspar and limonite. Local Mn ox dendrites. 18-27 0.32 g/t 60-63 0.35 g/t
63.50	111.00	Fault CO, SO, P4, 5% Lm Yellow to brown Syenite fragments in yellow sand/clay matrix no internal fabric. Zone appears to be flat lying - could be some weathering, freeze-thaw effect??
111.00	123.00	Limonitic Altered Syenite CO, SO, P4, 6% Lm Brown weathering, tan oxidized Syenite. Waxy to fine-grained textured altered feldspars and limonite.

*** END OF HOLE *** 123.00

HOLE NO: TR97-CL6	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	65.00
Drill contractor:		
Drill rig:		
Date started:	19/1/98	
Date finished:	19/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 65.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	2.00	COLLUVIUM
2.00	60.00	LIMONITIC ALTERED
		SYENITE
60.00	65.00	COLLUVIUM
65.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	2.00	Colluvium
2.00	60.00	Limonitic Altered Syenite C0, P4, S0, 5% Lm Brown - tan and locally yellow, strongly weathered/decomposed syenite rock was previously argillized (?). Vague pale spotty texture where visible. Rock is intensely broken - all surfaces oxidized.
60.00	65.00	Colluvium

*** END OF HOLE *** 65.00

HOLE NO: TR97-CL7	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	229.00
Drill contractor:		
Drill rig:		
Date started:	15/1/98	
Date finished:	15/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 229.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	3.30	CHERT
3.30	5.80	SILTSTONE (STEEL FORMATION)
5.80	9.60	SILTSTONE (STEEL FORMATION)
9.60	12.00	SILTSTONE (STEEL FORMATION)
12.00	15.75	SILTSTONE (STEEL FORMATION)
15.75	16.85	BIOTITE MONZONITE
16.85	22.60	SILTSTONE (STEEL FORMATION)
22.60	31.00	SILTSTONE (STEEL FORMATION)
31.00	33.60	SILTSTONE (STEEL FORMATION)
33.60	41.50	ALTERED BIOTITE MONZONITE
41.50	46.60	BIOTITE MONZONITE
46.60	50.00	LIMONITIC ALTERED BIOTITE MONZONITE
50.00	65.00	BIOTITE MONZONITE
65.00	72.00	LIMONITIC ALTERED BIOTITE MONZONITE
72.00	118.00	BIOTITE MONZONITE
118.00	130.00	ALTERED BIOTITE MONZONITE
130.00	149.00	COLLUVIUM
149.00	154.00	LIMONITIC ALTERED SYENITE
154.00	170.00	ALTERED SYENITE

Checked and signed: _____	Date: _____
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HOLE NO: TR97-CL7	SECTION:	GRID: MINE
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170.00	209.00	LIMONITIC ALTERED SYENITE
209.00	214.00	ALTERED SYENITE
214.00	229.00	LIMONITIC ALTERED SYENITE
229.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	3.30	Chert C0, S0, P4, 10%Lm Strongly oxidized blk ch with 20% Siltstone (Steel Formation). Thinly bedded, very broken fine block txt. So dips med to NW. - Possibly some very fine-grained disseminated pyrite in chert... Not visible.
3.30	5.80	Siltstone (Steel Formation) Ft, CO, SO, P4, 4% Lm Crushed, weathered shale hornfels in NNW trending fault zone fragments all rotated minor blk ch.
5.80	9.60	Siltstone (Steel Formation) C0, S0, P4, 6% Lm Light greenish brown, blocky harnfels, strongly blebbed, weathered; local Mnox spots and dentrites.
9.60	12.00	Siltstone (Steel Formation) C0, S0, P4, 3% Lm Tan to white, crushed Siltstone (Steel Formation) rubble; gougy, local sheared txt.
12.00	15.75	Siltstone (Steel Formation) C0, S0, P4, 4% Lm Brn to tan/yellos, fine blacky with local shears.
15.75	16.85	Biotite Monzonite C0, S0, P4, 2% Lm, B3 Weathered, decomposed Biotite Monzonite dike, contacts trend ENE.
16.85	22.60	Siltstone (Steel Formation) C0, S0, P4, 4% Lm Tan to yellow, weathered Siltstone (Steel Formation) hornfels; fine blacky angular shattered rock; 10% blk CH; local shears Mnox stain.
22.60	31.00	Siltstone (Steel Formation) C0, S0, P4, 5% Lm Weathered tan-yellow aone of crushed Siltstone (Steel Formation) rubble, locally gougy.
31.00	33.60	Siltstone (Steel Formation) C3, S0, P4, 2% Lm Tan calc-siltstone with 20% blk Chert, coarse blocky to sheared with bedding on end at intrusive contact.
33.60	41.50	Altered Biotite Monzonite C3, S0, P4, 4% Lm Tan, altered, bio-rich Biotite Monzonite, strong HCl rxm except at immediate contact; mostly soft, decomposed material; rounded blocky txt.
41.50	46.60	Biotite Monzonite C0, S0, P4, 1%Lm, B1 Greenish grey, weathered decomposing BM; possible sericite.
46.60	50.00	Limonitic Altered Biotite Monzonite C1, S1, P4, 12% Lm, B2 Redish brown, weathered, locally silicified Biotite Monzonite, spotty cal. Development rubbly to sheeted txt. Shear zone contains qtz veins and silicification.
50.00	65.00	Biotite Monzonite C0, S0, P4, 1% Lm, B1 Green-grey, decomposing Biotite Monzonite.
65.00	72.00	Limonitic Altered Biotite Monzonite CO, SO, P4, 7% Lm, B2 Chocolate brown to yellow brown sheared Biotite Monzonite. Probable weathered phyllic alteration, with scattered qtz stringers 2-3m in the foliation (locally) qtz stringers 1-3m,. Strong creep below soil. Feox envelopes ground veins more reddish. Biotite locally destroyed, but present in islands and at NE end.
72.00	118.00	Biotite Monzonite C0, S0, P4, 2% Lm, B1 Green-grey, weathered and decomposing Biotite Monzonite, locally cut by s-dipping shears and qtz veinlets.
118.00	130.00	Altered Biotite Monzonite C0, S0, P4, 5% Lm, B2 NE shear zone.

From	To	Geological Log
130.00	149.00	Colluvium No data - covered permafrost.
149.00	154.00	Limonitic Altered Syenite C0, P4, S0, 4% Lm Brown decomposed Syenite.
154.00	170.00	Altered Syenite C0, S0, P4 Weathered, weakly altered biotite syerite abund limonitic box-work and local shear zones with thick (1-5cm) limonite filling some shears and sheeted limonite zones are well mineralized over short intervals. Major shears at 161, 167, 173, 181, 190, 195, 198, 201, 207, 214m
170.00	209.00	Limonitic Altered Syenite C0, S0, P4, 9% Lm Weathered, altered Syenite mafic minerals partly to completely destroyed. More intense Lm boxworks. Some rock is white (bleached?) with Lm joints elsewhere there is pervasive Lm
209.00	214.00	Altered Syenite C0, P4, S1, 6% Lm Bleached white, phyllic (?) altered Syenite. Mafies destroyed. Sheeted Lm veins N50E, Zone appears to cut across trench in NE direction forms resistant rib.
214.00	229.00	Limonitic Altered Syenite C0, S0, P4, 10% Lm Strongly weathered Altered Syenite with orange-brown oxidation at end of trench. This area has several strong EW jts with failures in opposite wall.

*** END OF HOLE *** 229.00

HOLE NO: TR97-CL8	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	152.00
Drill contractor:		
Drill rig:		
Date started:	15/1/98	
Date finished:	15/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 152.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	90.00	ALTERED BIOTITE MONZONITE
90.00	100.00	COLLUVIUM
100.00	101.00	ALTERED BIOTITE MONZONITE
101.00	118.00	LIMONITIC ALTERED SYENITE
118.00	134.00	BIOTITE MONZONITE
134.00	139.00	LIMONITIC ALTERED BIOTITE MONZONITE
139.00	152.00	ALTERED BIOTITE MONZONITE
152.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	90.00	Altered Biotite Monzonite -> ABQM C0, S0, P4, tr % Lm Green grey, weathered/decomposed qtz monzonite to monzonite local weak alteration (chl & ser) but rock is basically intact a few relict joints present. First 25m mostly rubble. Thin qtz-lime vein at 75m - no value in sample.
90.00	100.00	Colluvium Covered Road access.
100.00	101.00	Altered Biotite Monzonite C0, S0, P4, 0% Lm Sheared, decomposed Biotite Monzonite.
101.00	118.00	Limonitic Altered Syenite C?, S1, P4, 10% Lm Orange brown to tan and dark brown qtz altered syerite. Extremely sheared and broken but forms resistant rib 106-110. Appers to be negatibe correlation with Au.
118.00	134.00	Biotite Monzonite - Altered Biotite Monzonite C?, S1, P4, 2% Lm Weakly altered Biotite Monzonite, as before, but local qtz alt as from 122-124 (again-no Au) this zone pinches out to a few cm before opposite wall is reached.
134.00	139.00	Limonitic Altered Biotite Monzonite C?, S2, P4, 8% Lm Orange tan qtz altered (wk) Biotite Monzonite. Boundin ft on S side has 0.65 g/t Au with qtz altered and possible qtz viens.
139.00	152.00	Altered Biotite Monzonite C?, S0, P4, 2% Lm Weakly altered Biotite Monzonite with local limonite fx.

*** END OF HOLE *** 152.00

HOLE NO: TR97-CL9	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	240.00
Drill contractor:		
Drill rig:		
Date started:	15/1/98	
Date finished:	15/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 240.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	23.00	SILTSTONE (STEEL FORMATION)
23.00	24.00	FAULT
24.00	33.50	SILTSTONE (STEEL FORMATION)
33.50	35.00	BIOTITE MONZONITE
35.00	51.00	SILTSTONE (STEEL FORMATION)
51.00	56.00	LIMONITIC ALTERED BIOTITE MONZONITE
56.00	68.00	ALTERED BIOTITE MONZONITE
68.00	91.00	BIOTITE MONZONITE
91.00	92.50	LIMONITIC ALTERED BIOTITE MONZONITE
92.50	115.00	ALTERED BIOTITE MONZONITE
115.00	116.30	LIMONITIC ALTERED BIOTITE MONZONITE
116.30	123.00	ALTERED BIOTITE MONZONITE
123.00	150.00	COLLUVIUM
150.00	154.00	LIMONITIC ALTERED SYENITE
154.00	158.00	FAULT
158.00	239.00	LIMONITIC ALTERED SYENITE
239.00	240.00	COLLUVIUM
240.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	23.00	Siltstone (Steel Formation) C0, S0, P4, 2% Lm Tan to white siltstone hornfels with ~25% black chert deds. Blocky to massive with local limonite - filled fractures bedding indistinct.
23.00	24.00	Fault C0, S0, P4, 3% Lm Sheared siltstone 337/90.
24.00	33.50	Siltstone (Steel Formation) C0, S0, P4, 5% Lm Same as 0-23, sheared and rubbly after 30m.
33.50	35.00	Biotite Monzonite C0, S0, P4, 5% Lm Green grey accomposed biotite monzonite, possible weak alteration by strongly weathered, sandy with fresh biotite flakes.
35.00	51.00	Siltstone (Steel Formation) C4, S0, P4, 1% Lm White to tan calcareous siltstone, local blk chert, strong HCl rxn beds are massive, blocky and caving. Units near contact are limey white in appearance, upper contact has blk ch adj to dike.
51.00	56.00	Limonitic Altered Biotite Monzonite C4, S0, P4, 8% Lm Calcareous, weathered sericite (?) altered Biotite Monzonite.
56.00	68.00	Altered Biotite Monzonite C3, S1, P4, 2% Lm Weakly altered (B1) monzonite, first 5m are calcareous, tr qtz veins w/very thin qtz halo and abund limonite.
68.00	91.00	Biotite Monzonite C0, S1, P4, 1% Lm Very weakly (?) or unaltered/strongly weathered Biotite Monzonite. Some qtz limonite veins present with thin alt holes.
91.00	92.50	Limonitic Altered Biotite Monzonite C0, S2, P4, 9% Lm Brown strongly oxidized qtz-ser-py (?) altered Biotite Monzonite with 2 qtz-lim vlt and possible feldsparization.
92.50	115.00	Altered Biotite Monzonite C0, S0, P4, 1% Lm Greenish grey, weakly altered but strongly oxidized and decomposed Biotite Monzonite local q-salt at 112m.
115.00	116.30	Limonitic Altered Biotite Monzonite C0, S0, P4, 6% Lm Same as surrounding rock but qtz-ser-py (?) altered...Strongly oxidized.
116.30	123.00	Altered Biotite Monzonite C0, S0, P4, 1% Lm Grey, weakly altered Biotite Monzonite, tr. Qtz-lim vlt 121.8-122.2.
123.00	150.00	Colluvium - Covered.
150.00	154.00	Limonitic Altered Syenite C0, S0, P4, 5% Lm Orange-brown, fg Syenite, strongly altered with bio removed and feldspars sericitized.
154.00	158.00	Fault C0, S0, P4, 6% Lm Yellow- tan shear zone with abund gouge and Syenite frags.
158.00	239.00	Limonitic Altered Syenite C0, S0, P4, 10% Lm Orange brown, altered and strongly weathered biotite syenite. Relict qz-ser- alt. 188-190, 197-206, 216-225, these zones form resistant ribs of brown to lt yellow color assoc. With very weak mineralization.
239.00	240.00	Colluvium C0, S0, P4, 1% Lm Weathered Sy...Weakly altered ?

*** END OF HOLE *** 240.00

HOLE NO: TR97-CL10	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	58.00
Drill contractor:		
Drill rig:		
Date started:	19/1/98	
Date finished:	19/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 58.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	20.00	ALTERED SYENITE
20.00	24.00	SYENITE
24.00	39.00	ALTERED SYENITE
39.00	49.00	SYENITE
49.00	58.00	ALTERED SYENITE
58.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	20.00	Altered Syenite CO, SO, P4, 2% Lm Tan decomposed biotite-hornblends syenite. Weakly altered with chloritized matrics and cloudy feldspars. Interstitial orange limonite. 10-12 0.60 g/t Au < a limonite filled fx 041/435.
20.00	24.00	Syenite CO, SO, P4, 1% Lm Biotite-hornblende syenite with trachytic txt, trace chlorite feldspars fresh.
24.00	39.00	Altered Syenite CO, SO, P4, 3% Lm As 0-20 28-30 0.56 g/t Au, Northerly gouge zone and NE limonitic fx.
39.00	49.00	Syenite CO, SO, P4, tr Lm Fresh syenite.
49.00	58.00	Altered Syenite CO, SO, P4, 3% Lm Chloritized syenite.

*** END OF HOLE *** 58.00

HOLE NO: TR97-CL11	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : CLASSIC ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	310.00
Drill contractor:		
Drill rig:		
Date started:	19/1/98	
Date finished:	19/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

Pre-collar depth: Final depth: 310.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	16.00	ALTERED BIOTITE MONZONITE
16.00	18.50	LIMONITIC ALTERED BIOTITE MONZONITE
18.50	82.00	BIOTITE MONZONITE
82.00	310.00	SYENITE
310.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	16.00	Altered Biotite Monzonite C0, S0, P4, 1% Lm Totally decomposed chloritic biotite monzonite all original fabric disrupted - sand no visible structure.
16.00	18.50	Limonitic Altered Biotite Monzonite C0, S0, P4, 6% Lm Brown to tan, sheared, quartz-sericite altered biotite monzonite deeply weathered and affected by creep. Abund, broken quartz vein fragments. 14-18 0.64 g/t sheared qtz vein 087/825 14-16 may be due to creep of qtz vein down slope.
18.50	82.00	Biotite Monzonite Altered Biotite Monzonite, C0, S0, P4, 1% Lm Green black, sandy-decomposed biotite monzonite, weakly chloridized. Zone from 47-57 has isolated faults and fx which localized qtz-lim veins, locally with thin quartz-sericite salvage. Trench is unsampled 42-209 42-64 sampled 10/09/97.
82.00	310.00	Syenite C0, S0, P4, 2% Lm Fresh to weakly chloritized, intensely weathered trechyte syenite No mineralization noted. 204-282 sampled.

*** END OF HOLE *** 310.00

HOLE NO: TR97-EBR1	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	83.00
Drill contractor:		
Drill rig:		
Date started:	12/1/98	
Date finished:	12/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 83.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	4.00	ALTERED QUARTZ MONZONITE
4.00	13.00	ALTERED QUARTZ MONZONITE
13.00	14.00	GRAPHITIC ARGILLITE
14.00	16.50	CHERT
16.50	24.00	ALTERED QUARTZ MONZONITE
24.00	30.00	GRAPHITIC ARGILLITE
30.00	30.50	ALTERED QUARTZ MONZONITE
30.50	46.50	GRAPHITIC ARGILLITE
46.50	52.00	ALTERED QUARTZ MONZONITE
52.00	54.50	GRAPHITIC ARGILLITE
54.50	56.00	ALTERED QUARTZ MONZONITE
56.00	57.50	GRAPHITIC ARGILLITE
57.50	58.50	ALTERED QUARTZ MONZONITE
58.50	64.50	GRAPHITIC ARGILLITE
64.50	70.00	ALTERED QUARTZ MONZONITE
70.00	74.00	GRAPHITIC ARGILLITE
74.00	82.00	ALTERED QUARTZ MONZONITE
82.00	83.00	GRAPHITIC ARGILLITE
83.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	Altered Quartz Monzonite C0, S0, P4, 2% Lm Orange-tan, deeply weathered Altered Quartz Monzonite (?) composed of loose sand.
4.00	13.00	Altered Quartz Monzonite C0, S0, P4, 1% Lm Tan, fine-grained latite sill, irregular shaped with a pophyses extending into Graphitic Argillite. Overlain by Graphitic Argillite in wall of trench. Alteration is argillite with mafic phenos -> green waxy clay. Rock is mostly rubble with little consistent strx.
13.00	14.00	Graphitic Argillite C0, S1, P4, tr % Lm Blk, carbonaceous argillite with broken white Qtz stw and silicification.
14.00	16.50	Chert C0, S0, P4, 1% Lm Tan weathering black chert, blocky, thin bedded, apparent antiformal strx.
16.50	24.00	Altered Quartz Monzonite C0, S0, P4, 1% Lm Same as 4-13m; sandy, loose zone from 19-22 possibly near a minor fault (?).
24.00	30.00	Graphitic Argillite S1, P4, 0% Lm Blacky, black graphitic argillite with some chert, locally silicified around disarticulated white Qtz stwk.
30.00	30.50	Altered Quartz Monzonite C0, S0, P4, 2% Lm Tan, Altered Quartz Monzonite dike, argillized with smectite, green clay in biotite sites. -> nodules of rounded, grey, cobble-sized recrystallized (?) Qtz.
30.50	46.50	Graphitic Argillite C0, S0, P4, 1% Lm Black graphitic argillite with disrupted bedding, locally turned to faults.
46.50	52.00	Altered Quartz Monzonite C0, S0, P4, 1% Lm Same as 4-13, not as weathered but still broken (near surface rubble). Qtz pods noted near fault at 48m.
52.00	54.50	Graphitic Argillite C0, S0, P4, tr % Lm Same as 30.5-46.5, bedding disrupted but no major faulting.
54.50	56.00	Altered Quartz Monzonite C0, S0, P4, 2% Lm Altered Quartz Monzonite dike as above, contacts appear to be normal intrusive.
56.00	57.50	Graphitic Argillite C0, S0, P4, 0% Lm Screen at Graphitic Argillite as above.
57.50	58.50	Altered Quartz Monzonite C0, S0, P4, 3% Lm Altered Quartz Monzonite dike, partly bounded with NW fault.
58.50	64.50	Graphitic Argillite C0, S0, P4, 0% Lm Sheared Graphitic Argillite.
64.50	70.00	Altered Quartz Monzonite C0, S0, P4, 2% Lm Tan fine-grained porphyritic Altered Quartz Monzonite, Qtz-sericite altered -> weathered. This is a conformable (?) epuphysis within the Graphitic Argillite irregular but dipping gently N.
70.00	74.00	Graphitic Argillite C0, S0, P4, tr % Lm Cherty (~50%) Graphitic Argillite in antiformal shape - Altered Quartz Monzonite sill follows bedding around crest.
74.00	82.00	Altered Quartz Monzonite C0, S0, P4, 1% Lm Main body of Altered Quartz Monzonite sill, large blocky texture most intact Altered Quartz Monzonite in this trench. Qtz-sericite alteration with biotite ->

From	To	Geological Log
82.00	83.00	Graphitic Argillite C0, S0, P4, 0% Lm Crumbly black Graphitic Argillite.

*** END OF HOLE *** 83.00

HOLE NO: TR97-EBR2	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	98.00
Drill contractor:		
Drill rig:		
Date started:	12/1/98	
Date finished:	12/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 98.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole: NONE
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	12.00	LIMONITIC ALTERED QUARTZ MONZONITE
12.00	16.00	GRAPHITIC ARGILLITE
16.00	29.50	ALTERED QUARTZ MONZONITE
29.50	31.00	GRAPHITIC ARGILLITE
31.00	32.00	ALTERED QUARTZ MONZONITE
32.00	60.00	GRAPHITIC ARGILLITE
60.00	98.00	GRAPHITIC ARGILLITE
98.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	12.00	Limonitic Altered Quartz Monzonite C0, S0, P4, 7% Lm Note: this end of trench is back filled and is logged on the basis of preliminary observations and comparison with nearby trenches.
12.00	16.00	Graphitic Argillite C0, S1, P4, 1% Lm Black argillite with crade bedding dip to S. Locally silicified adjacent to stwk and sheeted white Qtz vltz of ~/mm thickness.
16.00	29.50	Altered Quartz Monzonite C0, S0, P4, 2% Lm Irregular, sill-like lobe of AQM; tan and blocky; quartz-sericite altered -> oxidized; yellowish tan and sandy at contact. N-ly & NW-ly jt sets.
29.50	31.00	Graphitic Argillite C0, S0, P4, 0% Lm Thin screen of Graphitic Argillite, fault bounded by ~ EW strx.
31.00	32.00	Altered Quartz Monzonite C0, S0, P4, 1% Lm Fault bounded black by 100/N strx, same as 16-29.5.
32.00	60.00	Graphitic Argillite C0, S0, P4, tr % Lm Black-sheared Graphitic Argillite, thinly laminated. 32-36 relatively intact but disrupted laminac. 36-60 tectonized, sheared and totally disrupted zone, gougy? clay, retains water, sides slumped...Looks like black debris flow, bounded on N by 095 fault and on S by 310 fault.
60.00	98.00	Graphitic Argillite C0, S0, P4, tr Lm Thinly bedded, black shale, gently dipping to S, locally folded into SE punging, over turned felds, strong fracture cleavage at ~88m broken zone with disaggregated white Qtz vein.

*** END OF HOLE *** 98.00

HOLE NO: TR97-EBR3	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	62.00
Drill contractor:		
Drill rig:		
Date started:	8/1/98	
Date finished:	8/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 62.00

Purpose of hole: EXPLORATION

Hole status:

Comments:

Material left in hole:

Base of complete oxidation

Top of fresh rock:

Water first encountered:

Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	6.00	CHERT
6.00	18.00	GRAPHITIC ARGILLITE
18.00	19.00	CHERT
19.00	43.50	GRAPHITIC ARGILLITE
43.50	58.00	ALTERED QUARTZ
		MONZONITE
58.00	62.00	COLLUVIUM
62.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	6.00	Chert C0, S0, P4, 1% Lm Thin-bedded black Chert, weathers brown dips moderately NE.
6.00	18.00	Graphitic Argillite C0, S0, P4, 2% Lm -> Siltstone (Earn Group) Black argillite with beds of siltstone and chert making up ~ 40% of the unit.
18.00	19.00	Chert C0, S0, P4, 2% Lm 1m thick, thinly bedded chert unit mostly broken and rubblely seems to overlie the Graphitic Argillite unit.
19.00	43.50	Graphitic Argillite C0, S1, P4, tr % Lm Sheared black argillite, largely broken, bedding discontinuous and convolute. Tiny white Qtz stwk and sheeted zones common and more abund near Quartz Monzonite contact normally dissagregated silicification newar stwk Qtz.
43.50	58.00	Altered Quartz Monzonite C0, S0, P4, 4% Lm Tan, argillized and g-s altered sill, terminated at N and by EW faults. - Very broken by surface effects.
58.00	62.00	Colluvium Mostly Altered Quartz Monzonite rubble and sand. Fault Zone?

*** END OF HOLE *** 62.00

HOLE NO: TR97-EBR4	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : EAST BIG ROCK
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	40.00
Drill contractor:		
Drill rig:		
Date started: 8/1/98		
Date finished: 8/1/98		
Logged by: EARL DETRA		
Relogged by:		
Sampled by: EARL DETRA		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 40.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	4.00	GRAPHITIC ARGILLITE
4.00	6.00	ALTERED QUARTZ MONZONITE
6.00	7.00	LIMONITIC ALTERED QUARTZ MONZONITE
7.00	8.00	GRAPHITIC ARGILLITE
8.00	11.00	ALTERED QUARTZ MONZONITE
11.00	12.50	GRAPHITIC ARGILLITE
12.50	14.00	ALTERED QUARTZ MONZONITE
14.00	16.00	GRAPHITIC ARGILLITE
16.00	17.00	ALTERED QUARTZ MONZONITE
17.00	36.00	LIMONITIC ALTERED QUARTZ MONZONITE
36.00	40.00	COLLUVIUM
40.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	Graphitic Argillite C0, P4, S1, 0% Lm Black sheared Graphitic Argillite, bedding totally disrupted, local Qtz with adj. Silicification disaggregated.
4.00	6.00	Altered Quartz Monzonite C0, S0, C0, tr Lm Mottled white, argillized fine-grain Qtz monzonite, weak, sheared sticky clay - boundaries controlled by N6010/90 Slt.
6.00	7.00	Limonitic Altered Quartz Monzonite C0, S0, P4, 5% Lm Same as above but reddish brown weathered g-s alteration.
7.00	8.00	Graphitic Argillite C0, S1, P4, tr Lm Sheared layer of Graphitic Argillite, same siln.
8.00	11.00	Altered Quartz Monzonite C0, S0, P4, 1% Lm Sheared white Altered Quartz Monzonite with layers of Graphitic Argillite.
11.00	12.50	Graphitic Argillite C0, S2, P4, tr Lm, tr scoradite Thinly bedded with convolute layers Graphitic Argillite.
12.50	14.00	Altered Quartz Monzonite C0, S0, P4, 1% Lm White argillized q-monzonite.
14.00	16.00	Graphitic Argillite C0, S0, P4, tr Lm, pass scorodite Same as 11 to 12.5.
16.00	17.00	Altered Quartz Monzonite C0, S0, P4, tr Lm Same as 12.5 - 14.
17.00	36.00	Limonitic Altered Quartz Monzonite C0, S0, P4, 7% Lm Reddish brown, heavily jointed Qtz sericite altered and weathered fg Qtz monzonite sill.
36.00	40.00	Colluvium Mostly clay Limonitic Altered Quartz Monzonite.

*** END OF HOLE *** 40.00

HOLE NO: TR97-MH20	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	39.00
Drill contractor:		
Drill rig:		
Date started:	19/2/98	
Date finished:	19/2/98	
Logged by:	LJ & RB (CONVERTED BY	
Relogged by:	VPARK 17 FEB 98)	
Sampled by:		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00 mN	0.00 mE	0.00 RL
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Pre-collar depth: Final depth: 39.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	22.00	SILTSTONE (STEEL FORMATION)
22.00	31.00	LIMONITIC ALTERED QUARTZ MONZONITE
31.00	36.00	LIMONITIC QUARTZ MONOZITE
36.00	39.00	QUARTZ MONZONITE
39.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	22.00	<p>Siltstone (Steel Formation) C1, S2, P4 Steel formation siltstone. 0.0-10.0m: Dark grey siltstone, highly fractured; most pieces ~2cm - 5cm more competent at bottom at trench; bioturbation present (165/20); areas of cherty siltstone; mostly weakly calcareous (C1) - some strong carbonate (C4) on fractured surfaces; bedding (?) 120/20-25; cleavage at 30-45 degrees; trace to 1% limonite on fractures (P4); limonite - coated quartz (S2) stringers and silica flooded 10.0-22.0m: Intensely fractured; more carbonaceous (graphitic); S2-S3 as veins, stringers, blebs and small quartz - filled micro-fractures; weakly calcareous (C1); trace to 1% limonite - possibly oxidized sulfides; some clay blebs and stringers, very soft 10.0 - 16.0m. Note: According to schematic, contacts with adjacent intrusive is well defined and curves gently at 30-45 degrees from horizontal.</p>
22.00	31.00	<p>Limonitic Altered Quartz Monzonite S2-S3 Blocky intrusive; biotite altered to white mica; cleavage at 160/25. 24.0-26.0m: moderately fractured; 1% limonite on fractures; moderately siliceous or silicified (S2-S3); 'contacts at 45 degrees from horizontal - vp.</p>
31.00	36.00	<p>Limonitic Quartz Monozite Note: No text in schematic; assume quartz monzonite with pervasive limonitic staining and fresh, black biotite; 'contactss at ~ 45 degrees from horizontal -vp.</p>
36.00	39.00	<p>Quartz Monzonite Note: In map, rock type is specified as (L)(A)QM; limonite on fracture surfaces; biotite moderately altered to white mica and limonite coating; trace limonite.</p>

*** END OF HOLE *** 39.00

HOLE NO: TR97-MH21 SECTION: GRID:MINE

PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	68.00
Drill contractor:		
Drill rig:		
Date started:	19/2/98	
Date finished:	19/2/98	
Logged by:	?? (CONVERTED BY VPARK 17	
Relogged by:	FEB 98)	
Sampled by:		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 68.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments: SEE OTHER LOGS

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	8.00	LIMONITIC ALTERED QUARTZ MONZONITE
8.00	15.00	LIMONITIC ALTERED QUARTZ MONZONITE
15.00	23.00	LIMONITIC ALTERED QUARTZ MONZONITE
23.00	59.00	LIMONITIC ALTERED QUARTZ MONZONITE
59.00	60.00	GRAPHITIC ARGILLITE
60.00	62.00	SILTSTONE (STEEL FORMATION)
62.00	68.00	GRAPHITIC SHALE
68.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	8.00	<p>Limonitic Altered Quartz Monzonite 50:50 Overburden, P4, S1, Qe 50% soil and 50% limonitic altered quartz monzonite, where (according to schematic) the overburden overlies intrusive; fist size chunks of LAQM; biotite altered to manganese; 1-3% pervasive limonite, completely oxidized sulfides (P4); very weakly silicified (S1); quartz eyes? - look 2 degrees; non-calcareous.</p>
8.00	15.00	<p>Limonitic Altered Quartz Monzonite 90:10 Overburden, P4, S1 Moderately fractured intrusive; blocky; 12.0-15.0 m - competent at bottom; completely oxidized sulfides (P4); manganese oxide and limonite; biotite altered to manganese; 1-2% pervasive limonite feldspar moderately to highly altered to clay; non-calcareous; weakly silicified (S1); quartz veins.</p>
15.00	23.00	<p>Limonitic Altered Quartz Monzonite S1, stockwork, P4 Altered intrusive; as sand with pebbles; orange-brown; 2-5% pervasive limonite; weak quartz veining (S1); completely oxidized sulfides (P4); non-calcareous.</p>
23.00	59.00	<p>Limonitic Altered Quartz Monzonite P4, Qe Moderately to highly fractured intrusive; blocky throughout; orange; 3-4% pervasive limonite; non-calcareous to very weakly, pervasively calcareous; completely oxidized sulfides (P4); non-silicified; 1 degrees (?) quartz eyes; feldspar highly altered to clay. 34.0-38.0m: large, blocky intrusive - 1/2m x 1/2m; cleavage at 075/60. At 41.0m: No visible contact, but material to south is soft and crumbly and material to north is hard.</p>
59.00	60.00	<p>Graphitic Argillite Graphite. Highly graphitic argillite; soft; intensely fractured; Note: map also says 'graphitics Siltstone (Steel Formation), but notation might have been scratched out -vp; contact with intrusive to south at ~20 degree from horizontal.</p>
60.00	62.00	<p>Siltstone (Steel Formation) C1, S1 Steel formation siltstone; intensely fractured; slightly graphitic; small folds throughout, semi-vertical, 1% limonite; weakly calcareous (C1); weakly silicified (S1).</p>
62.00	68.00	<p>Graphitic Shale Graphite. Graphitic shale; small limonitic fractures; trace limonite; very intense fracturing; gradational contact between siltstone (Siltstone (Steel Formation)) and argillite (Graphitic Argillite) - variations in hardness approximate area.</p>

*** END OF HOLE *** 68.00

HOLE NO: TR97-MH22	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	84.00
Drill contractor:		
Drill rig:		
Date started:	19/2/98	
Date finished:	19/2/98	
Logged by:	?? (CONVERTED BY VPARK 17	
Relogged by:	FEB 98)	
Sampled by:		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 84.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments: SEE OTHER LOGS

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SUMMARY LOG ***

0.00	13.00	SILTSTONE (STEEL FORMATION)
13.00	28.00	SILTSTONE (STEEL FORMATION)
28.00	44.00	SILTSTONE (STEEL FORMATION)
44.00	48.00	SILTSTONE (STEEL FORMATION)
48.00	74.00	SILTSTONE (STEEL FORMATION)
74.00	81.00	SILTSTONE (STEEL FORMATION)
81.00	84.00	LIMONITIC ALTERED QUARTZ MONZONITE
84.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	13.00	Siltstone (Steel Formation) P4, S1-S2 Steel formation siltstone; completely oxidized sulfides (P4); weakly to moderately silicified (S1-S2) as stringers and flooding; trace to 2% limonite on fractured surfaces; non-calcareous; small quartz stringers; cleavage = 020/25; 'contacts marked by graphitic fault zone - 3cm wide at 005/40.
13.00	28.00	Siltstone (Steel Formation) P4 Dark grey-black steel formation siltstone; highly to intensely fractured; 1-2% limonite on fractured surfaces all sulfides completely oxidized (P4); non-silicified; non-calcareous; cleavage at 140/10.
28.00	44.00	Siltstone (Steel Formation) S1, P4 Dark grey-black steel formation siltstone; highly to intensely fractured; trace to 1% limonite fractured surfaces; non to weakly silicified (S0-S1); non-calcareous; completely oxidized sulfides. At 36.0m: 5 cm graphitic fault - 012/40. 36.0-44.0m: main cleavage at 015/10, 000/70, 090/80.
44.00	48.00	Siltstone (Steel Formation) P4 Black to dark grey steel formation siltstone; intensely fractured top and highly fractured bottom of trench; trace to 1% limonite on fractures; completely oxidized to sulfides (P4); non-silicified; non-calcareous. At 45.0: 5 m limonitic shearing at 010/70. Right 'contacts marked by shear at 096/40.
48.00	74.00	Siltstone (Steel Formation) S1, P4 Steel formation siltstone; intensely fractured; highly fractured; 2-4% limonite fractures; 2% pervasive limonite; completely oxidized sulfide (P4); non to very weakly silicified (S0-S1); non-calcareous. Note: According to schematic, there are numerous 1-2m spaced shears at 064-080/85 -vp. 49.0-65.0m: schematic shows graphitic argillite blob/lense at top of trench; under a thin overburden layer; Graphitic Argillite contact with Siltstone (Steel Formation) at 020/35; limonitic fractures 045/70. 64.0-66.0m: intensely fractured; intensely limonitic; 3-6% limonite; 'contactss at 80 degrees from horizontal. 66.0-74.0m: more highly fractured than intensely; cleavage at 054/80; schematic suggests that fracturing intensifies toward right contact; contact marked by 5 cm wide limonitic, graphitic fault and limonitic fractures at 080/85.
74.00	81.00	Siltstone (Steel Formation) Graphite. Graphitic steel formation siltstone; intensely fractured; trace limonite on fractures; right contact marked by sharp contact - 090/50 near top of trench and 120/30 at floor/wall contact.
81.00	84.00	Limonitic Altered Quartz Monzonite :SST Orange-brown; intensely altered; sand-like.

*** END OF HOLE *** 84.00

HOLE NO: TR97-MH23	SECTION: 19750	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : MOOSEHEAD ZONE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	104.00
Drill contractor:		
Drill rig:		
Date started:	20/2/98	
Date finished:	20/2/98	
Logged by:	??? (CONVERTED BY VPARK 17	
Relogged by:	FEB 98)	
Sampled by:		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 104.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	30.00	GREYWACKE
30.00	32.00	SILTSTONE (STEEL FORMATION)
32.00	40.00	OVERBURDEN
40.00	43.00	GRAPHITIC ARGILLITE
43.00	80.00	SILTSTONE (STEEL FORMATION)
80.00	104.00	SILTSTONE (STEEL FORMATION)
104.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	30.00	<p>Greywacke 90:10 Siltstone (Steel Formation), C1, Stockwork Mostly Earn Group grey wacke and steel formation interbeds with some steel formation siltstone in sheared areas; intensely fractured; trace to 1% limonite on fracture surfaces; fizzes-weakly calcareous; dark grey; sandstone-like, ~10% steel formation, silicified-small stockworking small amount stockwork limonite stained; alternately blocky and lightly fractured. 0.0-2.0m: Grey wacke lenses parallel to bedding; bedding (S0) = 028/20; jointing (JN) = 241/84. 24.0-28.0m: 50% siltstone</p>
30.00	32.00	<p>Siltstone (Steel Formation) S2 Siltstone (?); cherty; silicified; banding; trace to 1% limonitic fractured surfaces; possibly with minor greywacke.</p>
32.00	40.00	<p>Overburden Loess 32.0-34.0m: well sorted; no sample. 36.0-37.0m: highly to intensely fractured. 37.0-38.0m: no sample.</p>
40.00	43.00	<p>Graphitic Argillite Graphite Intensely fractured graphitic argillite; parallel contacts at 020/40.</p>
43.00	80.00	<p>Siltstone (Steel Formation) :GW:MC Note: No description; schematic indicates steel formation siltstone (Siltstone (Steel Formation)) with some greywacke (Greywacke) and < 2% Menzie Creek volcanics (Menzie Creek) locally. Cleavage/contacts at 040/40; highly fractured; quartz veining (310/10) cross cutting bedding and cleavage. 46.0-48.0m: lenses (or beds) of greywacke = 050/38. 50.0-61.0m: highly fractured siltstone and greywacke; blocky; samples taken are in highly fractured SST/MC. 61.0-65.0m: graphitic argillite (Graphitic Argillite) and calcareous siltstone (Siltstone (Steel Formation)) interbeds: intensely fractured (020/50); some veining sampled; 2-7% pervasive limonite in siltstone. At 68.0m: graphitic argillite seam at 020/60. 70.0-76.0m: siltstone with 2-7% pervasive limonite; sandy with pebbles; small pods of greywacke; ~30% Menzie Creek rocks. 72.0-74.0m: wedge of loess. 76.0-80.0m: intensely fractured; sandy.</p>
80.00	104.00	<p>Siltstone (Steel Formation) Steel formation siltstone; intensely fractured (000/45); 1-2% limonite on fractures; sandy.</p>

*** END OF HOLE *** 104.00

From	To	Geological Log
0.00	36.00	Menzie Creek Menzie Creek volcanics, blocky.
36.00	128.00	Phyllite C, Stockwork Rabbit kettle formation; calcareous phyllite; highly folded unit; thin beds; fractures into thin slabs. At 48.0m: Graphitic argillite 'horsetails' -330/31; could be jointing if not bedding intense calcite veining. At 78.0m: fault or joint - 015/48. At 90.0m: fault or joint - 076/58. At 100.0m: fold axe: - 120/21, 140/09.

*** END OF HOLE *** 128.00

HOLE NO: TR97-NS1	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : NORTH SLOPE
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	76.00
Drill contractor:		
Drill rig:		
Date started:	21/2/98	
Date finished:	21/2/98	
Logged by:	AL/LJ/RD/SS (CONVERTED BY	
Relogged by:	VPARK 16 FEB 98)	
Sampled by:		

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth:
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	4.00	SILTSTONE (STEEL FORMATION)
4.00	6.00	SILTSTONE (STEEL FORMATION)
6.00	8.80	SILTSTONE (STEEL FORMATION)
8.80	17.90	GRAPHITIC ARGILLITE
17.90	20.00	SILTSTONE (STEEL FORMATION)
20.00	22.00	CHERT
22.00	53.20	SILTSTONE (STEEL FORMATION)
53.20	54.50	GRAPHITIC ARGILLITE
54.50	56.00	SILTSTONE (STEEL FORMATION)
56.00	57.50	ARGILLITE
57.50	58.00	ARGILLITE
58.00	76.00	SILTSTONE (STEEL FORMATION)
76.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	4.00	Siltstone (Steel Formation) S3, P4 Weathered steel formation siltstone. 0.0-2.0m: moderately fractured-increasingly competent to base of trench; cleavage planes 140/55; 2% limonite on fracture surfaces; silica flooded; pyrite oxidized, black and pitted, whole areas P4; non-calcareous (C0). 2.0-4.0m: moderately to intensely fractured; 2% limonite on surfaces; micro-veinlets of clay; non-calcareous.
4.00	6.00	Siltstone (Steel Formation) S2, P4 Steel formation siltstone; grey (fresh); highly weathered; intensely fractured; clay stringers larger, with blebs; stained; pyrite oxidized (some to 16.0m); non-calcareous.
6.00	8.80	Siltstone (Steel Formation) :ARG Steel formation siltstone; moderately fractured; interbedded argillite; 2-3% limonite on fracture surfaces; clay blebs and stringers; stained; non-calcareous.
8.80	17.90	Graphitic Argillite S1-S3 Graphitic argillite. 8.8 - 10.0m: Highly fractured due to folding; 2% limonite; stringers of montmorillonite. Note: trench diagram indicates fractured sub-horizontal indicators to listric-like gouge-filled layer 10-20m thick; strongly graphitic band (hue thickness=4.0?) at 55 degrees from horizontal - very intensely fractured; folding; beds average 10 cm 45 degrees; sharpening to 65 degrees; non-calcareous, S1. 10.0-12.0 m: S1-S2; black; more competent; stringers and blebs of quartz; folding at 11.5m; but still only moderately fractured; trace to 1% limonite on fracture surfaces; non-calcareous. 12.0-14.0 m: S2-S3; highly fractured; larger quartz veins up to 0.5 cm; pitted-possibly pyrite cubes gone; trace limonite on fracture surfaces and on stringers and veins; cherty argillite; non-calcareous. 14.0-16.0 m: S1-S2; moderately fractured; blocky; in steel formation siltstone up to 7% limonite. 16.0-17.9m: S2-S3; highly fractured graphitic argillite; moderately fractured siltstone (Siltstone (Steel Formation)); 2-3% limonite on fracture surfaces; montmorillonite blebs; silica flooding in siltstone; alteration to sericite-pervasive; Note: schematic shows sub-horizontal contact approximately 0.2m from trench floor which place 1-2m fault zone between graphitic argillite and weathered Siltstone (Steel Formation).
17.90	20.00	Siltstone (Steel Formation) S2, Ft Intensely fractured; topped with fault zone; fault zone; fault zone and intense fractured fault zone has multiple faults; all 2.0m lenses of graphitic argillite; more siliceous at bottom steel formation siltstone than upper; small quartz stringers, right contact marked by fault at 212/35; non-calcareous.
20.00	22.00	Chert S2 Chert wedge; intensely fractured contact in wall at ~10 degrees from horizontal; contact dipping into wall ~25-35 degrees; fault zone through all ~35 degrees; fault zone has multiple faults; 3-4% limonite on fractures; graphitic siltstone (Siltstone (Steel Formation)).
22.00	53.20	Siltstone (Steel Formation) C1 Mostly shear or blocky steel formation siltstone; intense fracturing 20.0 m; trace to 3% limonite on fracture surfaces; P1 (weakly oxidized pyrite -vp) at 20.0 - 30.0 m; P0 (unoxidized pyrite-vp) at 30.0-76.0m; trace to 1% fine grained dissemination pyrite; weakly calcareous (C1) pervasively, blocky 28.0-50.0m. 22.0-26.0m; very intensely fractured; graphitic argillite, chert, graphitic steel formation siltstone - all mix in breccia; weakly calcareous (C1) and silicified (S1); small graphitic argillite lenses within montmorillonite stringers and blebs - up to 5%; chert is weakly calcareous (C1); S3-S4; 5.0m (?? possibly mis-read -vp) carbonate stringers; fairly blocky; moderately fractured 1-3% limonite on fracture surfaces; silicified or eous - not specified) trace to 1% weakly oxidized (P1-P2) fine-grained pyrite. 46.0-50.0m: fracture surfaces have a thick red layer of limonite alteration at 49.0m; clay lense in siltstone (Siltstone (Steel Formation)); fine-grained; tan coloured; non very weakly calcareous (C0-C1); moderately fractured; limonitic altered on fracture surfaces only.

From	To	Geological Log
53.20	54.50	Graphitic Argillite Cherty argillite bands in steel formation siltstone; weakly graphitic at contacts; contacts at 6 degrees.
54.50	56.00	Siltstone (Steel Formation) Blocky, massive steel formation siltstone; 2% massive, fine grained, disseminated pyrite; limonite along fractures.
56.00	57.50	Argillite Cherty argillite band; as 53.2-54.5m.
57.50	58.00	Argillite C, Stockwork Argillite/mudstone bands, clay-rich bands bound siltstone (Siltstone (Steel Formation)) with carbonate veinlets cross-cutting and weakly carbonatized unit.
58.00	76.00	Siltstone (Steel Formation) C1-C2, S1-S2, P0-P1 Steel formation siltstone, weakly to moderately calcareous (C1-C2); moderate calcareous along fractures; weakly silicified (S1-S2); 1-2% fine-grained, fresh to weakly oxidized (P0-P1) pyrite; trace limonite on fracture surfaces; blocky dominantly. At 60.0m: siliceous, blocky; limonite on fracture surfaces; 2% fine-grained disseminated pyrite, weakly calcareous (C1) on fractures. At 64.0m: bands of cherty argillite; shear contact. At 65.8m: narrow graphitic band. At 69.0m: clay band; red fracture surfaces; thick carbonate veinlets; limonite alteration on fracture surfaces to limonite deep; at 7 cm lack cherty band. 70.0-74.0m: blocky; weak pervasive limonitic alteration. At 73.0m: clay-filled fractures. 74.0-76.0m: moderately sheared/fractured; platy; weakly sericite altered along fractures; tan, fine-grained siltstone; weakly silicified.

*** END OF HOLE ***

HOLE NO: TR97-SC1	SECTION:	GRID: MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SOUTH CANADIAN
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	70.00
Drill contractor:		
Drill rig:		
Date started:	8/1/98	
Date finished:	8/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 70.00
 Purpose of hole: EXPLORATION
 Hole status:
 Comments:

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	20.00	GRAPHITIC ARGILLITE
20.00	20.40	LIMESTONE
20.40	20.80	GRAPHITIC ARGILLITE
20.80	32.80	LIMONITIC ALTERED BIOTITE MONZONITE
32.80	36.00	SILTSTONE (STEEL FORMATION)
36.00	42.40	FAULT
42.40	62.00	SILTSTONE (EARN GROUP)
62.00	64.80	FAULT
64.80	70.00	SILTSTONE (EARN GROUP)
70.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	20.00	Graphitic Argillite C0, S0, P4, 0% Lm Black, laminated Graphitic Argillite, loose, fissle, bedding intact w/drapes over an irregular contact w/underlying Limestone.
20.00	20.40	Limestone C4, S0, P4, 3% Lm Light garnish grey - tan, massive, unbedded Limestone with abundant white calcite veins. Pervasive spotty orange limonite.
20.40	20.80	Graphitic Argillite C0, S0, P4, 1% Lm Sheared graphitic argillite.
20.80	32.80	Limonitic Altered Biotite Monzonite C3, P4, S1, 5% Lm Blocky, orange, biotite monzonite sill. Increasing alteration toward base. Argillized with fresh (?) biotite at top and strong Qtz alteration at base.
32.80	36.00	Siltstone (Steel Formation) C0, P4, S0, 1% Lm Broken and rubblely, soft siltstone, greenish grey to tan.
36.00	42.40	Fault C0, S0, P4, tr Lm Sheared greenish gouge zone with frags of siltstone.
42.40	62.00	Siltstone (Earn Group) C0, S0, P4, 1% Lm -> Shale Greenish grey, broken and locally sheared siltstone/shale, ground is frozen/muddy and poorly exposed.
62.00	64.80	Fault C0, S0, P4, tr Lm Light greenish gouge zone with frags of Shale apparent attitude 137/35SW.
64.80	70.00	Siltstone (Earn Group) C0, S0, P4, 1% Lm Grey-greenish grey massive thickly bedded to laminated Siltstone (Earn Group). Intact rock.

*** END OF HOLE *** 70.00

HOLE NO: TR97-SC2	SECTION:	GRID:MINE
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PROJECT CODE : BREWERY CREEK
 TENEMENT :
 PROSPECT :
 GRID : MINE
 MAP REFERENCE: MINE
 LOCATION : SOUTH CANADIAN
 HOLE TYPE : TRENCH

*** DRILLING SUMMARY ***

TRENCH	0.00	22.00
Drill contractor:		
Drill rig:		
Date started:	8/1/98	
Date finished:	8/1/98	
Logged by:	EARL DETRA	
Relogged by:		
Sampled by:	EARL DETRA	

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL
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Pre-collar depth: Final depth: 22.00

Purpose of hole:

Hole status:

Comments:

Material left in hole:
 Base of complete oxidation
 Top of fresh rock:
 Water first encountered:
 Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	22.00	SILTSTONE (EARN GROUP)
22.00		END OF HOLE

Checked and signed: _____	Date: _____
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From	To	Geological Log
0.00	22.00	Siltstone (Earn Group) CO, SO, P4, 1% Lm Thinly bedded, grey to tan siltstone, laced by numerous graphitic and/or limontic shear zones. White, shattered Qtz veins (~2cm) located below and just above lowest bedding plane faults - typically disaggregated. Probably Earn Group Siltstone. Ft @ 12m is ~50 cm thick, has black gouge @ base and limonitic crushed zone above, severed inclusions of country rock.

*** END OF HOLE *** 22.00