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**GEOLOGY, ROCK AND SOIL GEOCHEMISTRY,
AND DIAMOND DRILLING
NAT, TAM AND TAN MINERAL CLAIM GROUPS
QUADRA ISLAND, CAMPBELL RIVER AREA, B.C.
NANAIMO MINING DIVISION
NTS 92 K/3**

LATITUDE 50°10'N, LONGITUDE 125°15W

FILMED

Prepared for
**LONE JACK RESOURCES LTD.
GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,797
ARCTEX ENGINEERING SERVICES

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April 19, 1988

ARIS SUMMARY SHEET

Geologist

District Geologist, Victoria

Off Confidential: 89.04.05

ASSESSMENT REPORT 17797

MINING DIVISION: Nanaimo

PROPERTY: Nat
 LOCATION: LAT: 50 13 00 LONG 125 15 45
 UTM 10 5564951 338585
 NTS 092K03E 092K03W
 CLAIM(S): Nat 1, Nat 4-10, Nat 11-12, Nat 15-16, Tam 3, Tam 5
 OPERATOR(S): Lone Jack Res.
 AUTHOR(S): Kallcock, P.; Goldsmith, L.B.
 REPORT YEAR: 1988, 125 Pages

COMMODITIES

SEARCHED FOR: Gold, Copper

GEOLOGICAL

SUMMARY: Upper Triassic Karmutsen Formation andesitic volcanics and Quatsino Formation limestone underlie the western part of the property. Jurassic to Cretaceous diorite and quartz diorite of the Coast Range intrusive complex underlies the eastern part of the claims. A main suture or fault zone extends north-northwest throughout the length of the property. Gold occurs in massive sulphides or in quartz veins in an unpredictable fashion.

WORK DONE: Geological, Geochemical, Physical, Drilling

DIAD 604.9 m² 9 hole(s); NQ
 Map(s) - 8; Scale(s) - 1:200
 GEOL 2670.0 ha
 Map(s) - 5; Scale(s) - 1:500, 1:1000, 1:5000, 1:10 000
 PETR 7 sample(s)
 ROAD 1.3 km
 ROCK 72 sample(s) ; AU, ME
 SOIL 657 sample(s) ; AU, ME
 Map(s) - 3; Scale(s) - 1:5000
 TREN 260.0 m

MINFILE: 092K 141

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**GEOLOGY, ROCK AND SOIL GEOCHEMISTRY,
AND DIAMOND DRILLING
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QUADRA ISLAND, CAMPBELL RIVER AREA, B.C.
NANAIMO MINING DIVISION**

SUMMARY

The Nat, Tam and Tan mineral claim groups are located on Quadra Island, 15 km north of Campbell River, B.C. They cover approximately 2670 hectares and include numerous old exploration trenches and at least one old adit and shaft. Exploration during 1987 and 1988 has included trenching, rock sampling and diamond drilling at the Great Gold Showing. Diamond drilling was also carried out at two other locations where old exploration trenches exposed quartz or sulphide mineralization with elevated gold values.

A soil geochemical survey was conducted over the south part of the claim block. Gold-arsenic anomalies have been detected, one of which coincides with an area of numerous old exploration trenches. Within the grid area a zone of strong silicification containing abundant pyrite and local stibnite has returned high values of arsenic (greater than 10,000 ppm) and up to 91 ppm mercury and 3,500 ppm antimony. The zone may represent part of an epithermal alteration system.

An airborne geophysical survey which would be expected to identify sulphide concentration, alteration, and structures is recommended as the next exploration phase. Additionally, the information will assist in distinguishing between blocks of Quatsino limestone, Karmutsen volcanics, and Island intrusions which are separated by northwest-trending structures. Follow-up ground geophysical surveys, geochemical surveys and geological mapping would also be required to explore airborne anomalies. Trenching could also be undertaken at this time.

A budget of \$126,500 would be required to complete Phase 3. Diamond drilling would follow in Phase 4 and cost approximately \$240,000. A total of \$366,500 would be required in Phases 3 and 4.

INTRODUCTION

The Nat, Tam and Tan mineral claim groups are located on Quadra Island, 15 km north of Campbell River, B.C. The claims occupy a northwest/southeast trending drainage basin near the centre of the island which stretches from Granite Bay on the northwest to Open Bay on the southeast. The claims are situated near latitude 50°10' north, longitude 125°15' west, within NTS map sheet 92 K/3, Nanaimo Mining Division. Elevation of the Lone Jack Resources Ltd. property ranges from sea level to 457 m (1500 feet) a.s.l. (above sea level).

Access to the property is by good paved and gravel roads from Quathiaski Cove. Numerous logging roads provide secondary access.

The claim block consists of 26 contiguous claims. Several crown grants which lie within the claim block are not owned by Lone Jack Resources Ltd. Total area under mineral ownership is approximately 2670 hectares. The claims are listed in Table 1.

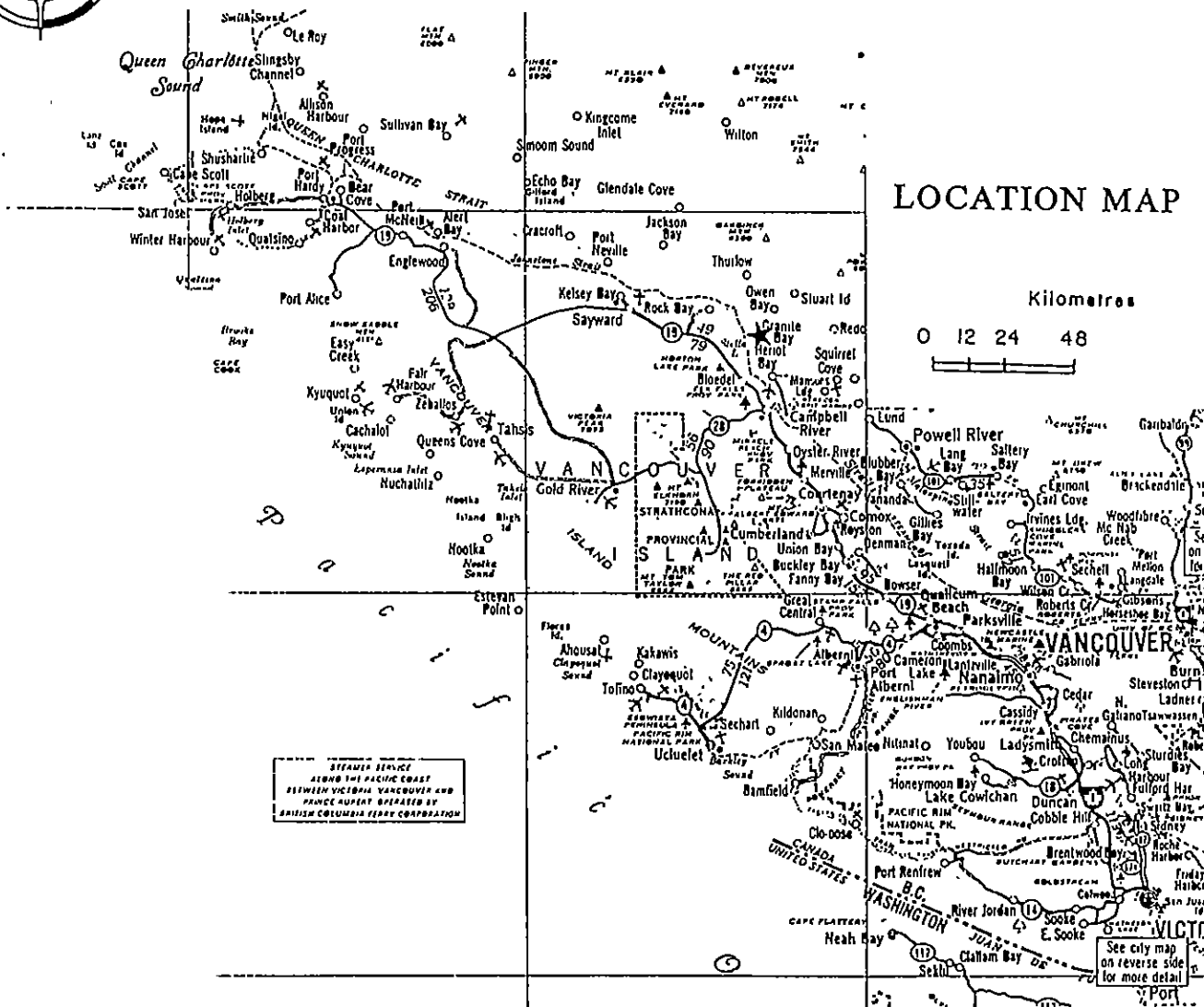
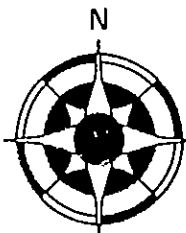
Table 1

<i>Name of Claim</i>	<i>No. of Units</i>	<i>Record No.</i>	<i>Record Date</i>
Nat #1	20	2315(4)	April 4, 1986
Nat #2	20	2316(4)	"
Nat #3	12	2335(5)	May 5, 1986
Nat #4	6	2336(5)	"
Nat #5	16	2376(5)	May 23, 1986
Nat #6	6	2379(5)	"
Nat #7	12	2382(5)	"
Nat #10	1	2337(5)	May 8, 1986
Nat #11	1	2338(5)	"
Nat #12	1	2386(5)	May 26, 1986
Mat #13	1	2377(5)	May 23, 1986
Nat #14	1	2378(5)	"
Mat #15	1	2380(5)	"
Nat #16	1	2381(5)	"
Nat #17 Fr.	1	2385(5)	"
Nat #18	1	2384(5)	May 26, 1986
Nat #20 Fr.	1	2381(7)	July 4, 1986
Nat #25	18	2449(8)	August 5, 1986
Nat #26	6	2464(8)	August 27, 1986
Nat #27 Fr.	1	2465(8)	"
Tan #1	1	2425(7)	July 4, 1986
Tan #2	1	2426(7)	"
Tam #3	1	2427(7)	"
Tam #4	1	2428(7)	"
Tam #5	1	2429(7)	"
Tam #6	1	2430(7)	"

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QUADRA ISLAND PROJECT

QUADRA ISLAND B.C. NANAIMO MINING DIVISION N.T.S. 92K 3E & 3W

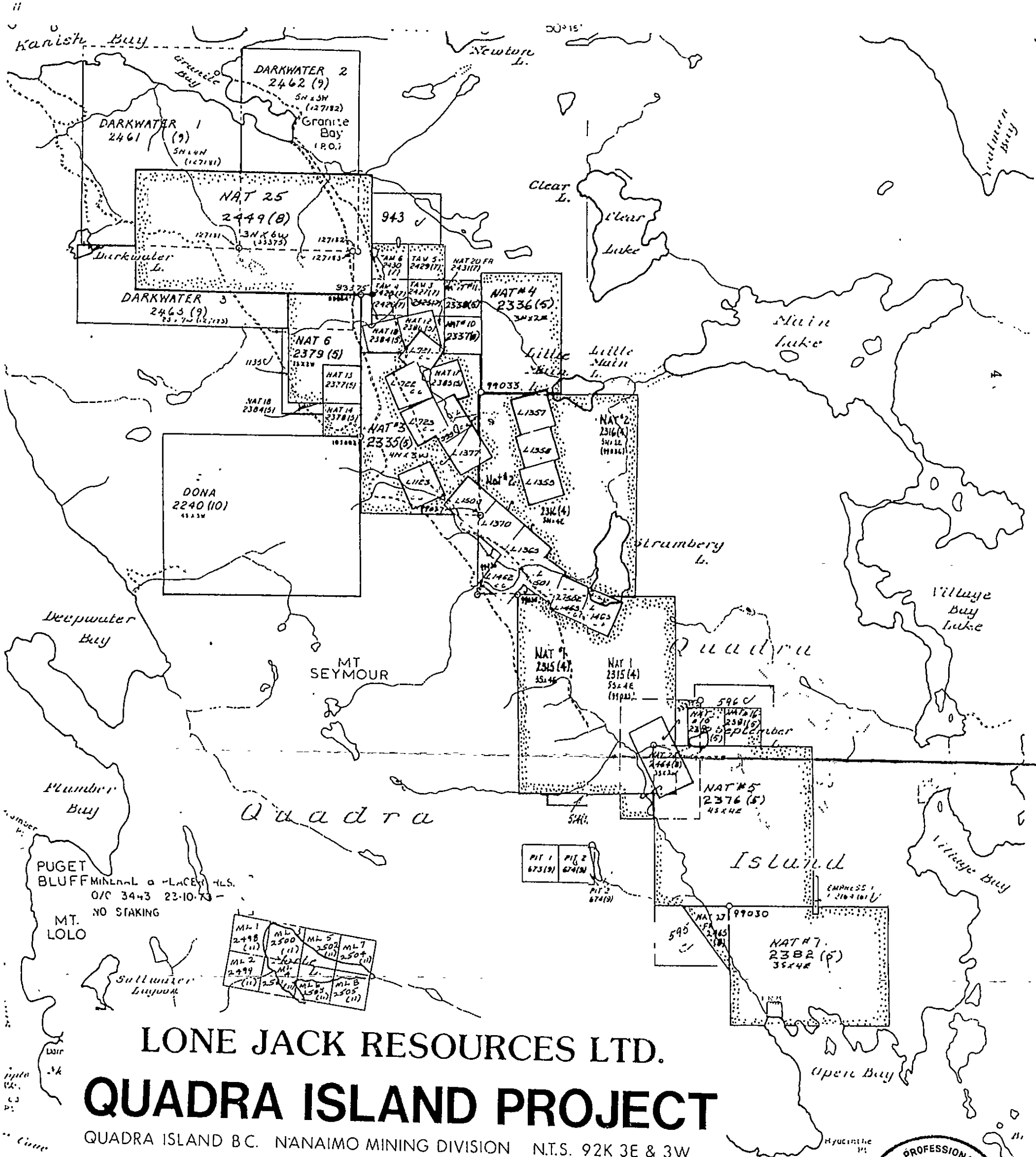


PAUL KALLOCK, GEOLOGIST
 LOCKE B. GOLDSMITH P.Eng.
 CONSULTING GEOLOGIST



ARCTEX ENGINEERING SERVICES

April 1988



LONE JACK RESOURCES LTD.
QUADRA ISLAND PROJECT

QUADRA ISLAND B.C. NANAIMO MINING DIVISION N.T.S. 92K 3E & 3W

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 CONSULTING GEOLOGIST



CLAIM MAP 1: 50,000
 0 500 1000 2500 metres

ARCTEX ENGINEERING SERVICES

April 1988

It should be noted that on the claim map as received from the mining recorder, there appear to be two fractions assigned to Nat #18.

Historically, mineral exploration on Quadra Island began in the 1880s. Subsequently, the Lucky Jim Mine (which lies within the Nat #3 claim but is not owned by Lone Jack Resources Ltd.) commenced mining operations and small amounts of gold-copper-silver ore were shipped. Table 2 provides data on some of the exploration carried out on various parts of the property.

A brief examination of the property was made in May 1987 and a comprehensive report summarizing past production and exploration data was written by Kallock and Goldsmith (1987). Detailed geological mapping and rock geochemical sampling was subsequently carried out on the Great Gold Showing and the "Epithermal Zone". At the same time a soil geochemical survey was conducted over the Nat #5 and Nat #7 claims, south of September Lake. Later, backhoe trenching and road construction with additional rock geochemical sampling were undertaken at the Great Gold Showing. Diamond drilling commenced shortly thereafter. Drilling continued into January 1988 on this showing and two other old trench areas in the southern half (GEX area) of the claim block. This report presents data concerning 1987 and 1988 exploration at the Quadra Island property.

REGIONAL GEOLOGICAL SETTING

The southwestern half of Quadra Island is underlain by a northwesterly trending belt of volcanic and sedimentary rocks that were deposited in late Triassic time. These rocks are divided into the older Karmutsen Formation which comprises basaltic flows and pillow lavas, and the Quatsino Formation which consists mainly of thick-bedded, bioclastic limestone. The Karmutsen Formation is subdivided into Lower, Middle and Upper members. Only the Upper Karmutsen is extensively exposed on Quadra Island, particularly in the southwestern one-third of the island, from Quathiaski Cove to Bodega Point.

The northeastern half of Quadra Island is underlain by granitic rocks of the Coast Mountains Plutonic Complex (Roddick and Woodsworth, 1976). These are in intrusive or faulted contact with Triassic volcanic and sedimentary formations along a northwesterly striking zone from Open Bay in the southeast to Bodega Point near Granite Bay in the northwest. Adjacent to the contact with granitic intrusions, volcanic and sedimentary rocks are complexly faulted, locally enclosing fault-bounded blocks. Faults strike northwesterly.

Recent studies of plate tectonics show that crustal plate motion plays a large role in juxtaposing various lithologic units, sometimes in a relatively small area. The Quadra Island property straddles a major northwest-southeast fault zone which separates rocks of the Vancouver Island area (Wrangellia) from the Coast Plutonic Complex. Previous geological mapping on the claims has shown numerous interbedded limestone and volcanic belts. Most belts are short and not

Table 2

Year of Work	Claim Name(s)	Operator/Author	Work	B.G. Assessment Report
1913	Quadra Island Lime Belt	GSC/D.D. Cairnes	Excellent economic geology report	
1914-1961		L A C K O F D A T A		
1962	Allen	Menzies Bay Min. Syn./E.B. Nicholls	Ground EM	491
1963	Rub, Copper Road	Bennett, R.I., Schwartz, S.D.	Ground Mag.	478
1966	Nab, Big, H, Al	Big Lake Mines/F.L.C. Price	Soil	852
1969	Chal, Norm, Allen, BB	Calmac Mines/J.A. Mitchell and D.G. Mark	Soil, Rock	2004
	Tanner	Summit Ex. & Holding/GL. Kerwin	S.P.	2275
1970	Lucky Jim	Western Mines/J.R. Morris	Linecutting	2362
1971	Quad	Prince Stewart Mines/ R.K. Germundson	Soil	3100
	Snoopy	Prince Stewart Mines/ E.P. Sheppard	Soil	3167
	PL	Datum Ex.	Topo	3488
	Bob, S, K, G	S. Weston and G.C. Singhai	Geol., Prospecting, Soil, Rock	3522
1973	FS	Four Seasons Manufac./ C.M. Armstrong	Ground Mag.	4179
	FS	Four Seasons Manufac./ C.M. Armstrong	Soil, Ground EM	4823
	Bit, Beaverdam,	Prince Stewart Mines/ E.P. Sheppard	DDH	5076
1975	Jawbreaker, Gold	Great Bear Min./A. Strasser	Geol.	5680

readily traceable along strike. Perhaps all of the limestone and/or volcanics do not belong to the Quatsino Formation. Allochthonous terranes or fault blocks are a possibility in this area.

PROPERTY GEOLOGY

The western part of the property is underlain by Upper Triassic Karmutsen Formation. In the north it is usually dark green andesite, generally medium-grained and massive to amygdaloidal. Gossan staining, sulphide mineralization, weak carbonitization, chloritization, weak silicification, garnet and epidote in fractures and amygdules are signs of alteration found in the Karmutsen andesite. The andesite is often interbedded with limestone beds and lenses.

The limestone on the property has been called Quatsino Limestone by Roddick and Woodsworth (1976) and assigned an Upper Triassic age. As previously stated there is some question as to how much of the limestone actually belongs to any one formational unit. Generally, however, it is grey to white in colour, coarse-grained, soft, and strongly weathered at surface. Sulphide mineralization, minor limonite, slight silicification, and chloritization are often found at limestone/andesite contacts. Locally, tight isoclinal folding is present at andesite or intrusive contacts. Banding within the limestone is caused by argillaceous layers a few centimetres thick.

Jurassic to Cretaceous diorite and quartz diorite intrude the volcanics and sediments in the north and on the east side of the claim block. The intrusives are generally homogeneous and unaltered.

The interbedded andesite and limestone generally maintain a 150°-155° strike and stand vertical to subvertical. Block faulting of the Karmutsen Formation is common, fault scarps running between 145° and 180°. The southwest blocks are the downthrown blocks.

VLF-electromagnetic surveys confirm the strong northwest-southeast structural trend that dominates the entire claim block. A major crustal break or suture zone is thought to follow the volcanic-sedimentary and intrusive contact area through the property.

GREAT GOLD SHOWING

The Great Gold Showing is located near the western boundary of Nat #4 claim, 1100 m northwest of Little Main Lake. Between September 19 and September 29, 1987, geological mapping, rock chip sampling and backhoe trenching were undertaken on the prospect. Numerous old trenches were enlarged and the access road was improved and extended to the south. An additional examination was made on November 19, 1987. Diamond drilling was begun on December 5, 1987 and continued into January 1988.

Geology and Mineralization

The oldest rocks at the Great Gold Showing are light to dark grey, fine to coarse crystalline limestone (marble) and interbedded siltstone and argillite of the Upper Triassic Quatsino (?) Formation. They trend northwest with moderate to steep dips to the southwest.

Also of Triassic age are intermediate to mafic volcanics of the Karmutsen Formation. Andesites and lesser basalts are often in fault contact with the limestone, although some contacts may be unconformable or intrusive with the sedimentary rocks. Intruding both the sedimentary and volcanic rocks are Jurassic to Cretaceous coarse-grained granitic rocks of the Coast Intrusions. Younger basalt, andesite, diabase, and felsite dykes appear to penetrate all other rocks.

Initial interest has been drawn to the Great Gold showing because of outcrops of massive chalcopryrite near 5+00N 1+00E. A 3.70 m section across this outcrop (samples 5+10N 1+05E and 5+09N 1+04E) averaged 0.147 oz Au/ton. Twelve metres to the southwest, sample 4+99N 1+13E contained 0.048 oz Au/ton across 2.40 m of chalcopryrite mineralization. At both locations the sulphides appear to be underlain by grey, coarse crystalline limestone. However, the chalcopryrite itself appears to be associated with a grey silicified andesite. The chalcopryrite occurs as discontinuous lenses. Trenching with a backhoe has removed what appears to have been a massive chalcopryrite pod, 3.5 m east of sample 5+10N 1+05E. The sulphides were hosted in siliceous grey andesite and underlain by grey limestone.

The massive chalcopryrite in the main trench area appears to generally trend northwest with gentle dips to the southwest, but the dip is certainly variable. At 4+99N 1+13E the underlying limestone contact is very irregular with horizontal to 50° westerly dips.

On the west or hangingwall side of the chalcopryrite at 5+09N 1+04E coarse-grained granite is present as a narrow (<1.0 m) dyke (?). Similar intrusive is present at 4+99N 1+13E. Petrographic study of this rock indicates a quartz and albite-altered pyroxene granite. The tungsten mineral ferberite has been tentatively identified in the granite and in the andesite porphyry. Petrographic study of the andesite porphyry indicates a plagioclase porphyry quartz latite with chlorite and sericite alteration. Large (2 to 3 mm) phenocrysts of feldspar are distinctive in this rock. In drill core a gradational change to nonporphyritic andesite was often seen and degree of alteration, especially with chlorite and epidote, was variable.

Skarn mineralization is scattered along the zone of trenching between 4+99N 1+13E and the old adit (?) area at 6+15N 0+65E. It is recognized in outcrop by its variable pink to green colour, its relative weight, and its hard surface. Two samples of skarn were selected for petrographic study: Quadra 618N 054E, from the old adit (?) area at the north end of the trench area; and Quadra Main

Showing form 5+12N 1+09E near the massive chalcopyrite. Both samples are diopside-garnet-carbonate skarn. Of particular note is the fact that sulphide addition may be a late event relative to skarn formation and that the north skarn is more thoroughly developed. Because of the presence of primary pyroxene in the granite and of pyroxene (diopside) in the skarn, a close link between skarn formation and the granite is suggested. Thus the inference is made that the sulphide introduction postdates the granite which is probably an Island Intrusion of Jurassic to Cretaceous age.

Chalcopyrite and lesser pyrite and pyrrhotite often accompany skarn mineralization. Most of the trenches exhibit some degree of skarnification and a trace to locally 10% chalcopyrite. Twenty-two rock chip samples were collected from the trench area. They are described in the Appendix. Certificates of analysis and procedures are also included. Locations and values are shown on the 1:1000 scale geology plan map.

Most abundant chalcopyrite and highest gold values occur at the main showing near 5+00N 1+00E as previously described. This area was thought to hold the highest potential for additional mineralization at depth. Diamond drilling was subsequently undertaken and is discussed in a following section.

SURFACE TRENCHING

Over 260 metres of trenching and 1.3 km of road construction, all at least 4 m in width, were undertaken in 1987 at the Great Gold Group. A JD 690-B tracked backhoe-excavator was used. Several culverts were installed on the access road. Trenches and roads are shown on the 1:1000 scale plan map of the Great Gold Showing in the pocket of this report.

DIAMOND DRILLING

The following table summarizes diamond drilling at the Quadra property during the December 1987 and January 1988 programme. The drill locations are shown on the 1:1000 geology plan map of the Great Gold Showing, the 1:5000 GEX geology map, and the 1:10,000 compilation map. Drill logs with analyses are included in the Appendix. Diamond drill hole profiles at 1:200 scale have also been prepared.

<i>Diamond Drill Hole No.</i>	<i>Location</i>	<i>Azimuth (degrees)</i>	<i>Angle (degrees)</i>	<i>Total Length (metres)</i>
Q 87-1	Great Gold Showing	060	-46	49.70
Q 87-2	" " "		Abandoned in overburden	
Q 87-3	" " "	vertical	vertical	82.93
Q 87-4	" " "	063	-45	67.38
Q 88-5	" " "	090	-45	114.63
Q 88-6	" " "	172	-45	75.61
Q 88-7	Northern GEX Area	165	-45	61.04
Q 88-8	" " "	185	-45	91.77
Q 88-10	Central GEX Area	030	-45	61.89
Total				<u>604.95</u> metres

Diamond Drilling at Great Gold Area

The first five diamond drill holes are located at the Great Gold Showing. Holes 87-1, 87-3, 87-4 and 87-6 tested the area around the massive chalcopyrite near 5+00N 1+00E. Hole 88-5 tested outcropping skarn and limestone as well as a previously established geophysical anomaly near 3+75N 2+75E.

DDH 87-1 encountered mixed andesite and limestone to 8.38 m. Between 8.38 and 8.69 m, andesite porphyry (similar to petrographic section of quartz latite porphyry) containing quartz, chalcopyrite and bornite assayed 1.30% Cu, 0.58 oz Ag/ton and 0.020 oz Au/ton in a 0.31 m section of core. No other andesite porphyry or massive chalcopyrite was encountered in the hole. Andesite, quartz diorite and minor limestone were intersected. A well foliated gneissic quartz diorite was encountered at the bottom of the hole.

DDH 87-3, a vertical hole near the collar of 87-1 encountered numerous sections of garnet-diopside skarn adjacent to limestone, andesite, andesite porphyry, granodiorite and diorite gneiss. Fifteen samples of skarn or pyrite-pyrrhotite mineralization were analysed but none contained more than 5 ppb Au (5 parts per billion gold). No massive chalcopyrite was seen.

DDH 87-4, collared 30.0 m northwest of 87-1 and drilled parallel to 87-1, also intersected numerous sections of skarn mineralization where basalt, diorite, granodiorite, andesite, or gneiss has intruded limestone. Some skarn contained up to 5% pyrite and 5% chalcopyrite. The highest

gold value was recovered from diopside-garnet skarn between 14.94 and 16.46 m; 2220 ppm Cu, 2.8 ppm Ag, 11 ppm As and 1250 ppb Au were returned from this 1.52 m length of core.

DDH 88-6 was drilled to the south to intersect the main showing at a different angle than the previous drill holes. A 5.0 metre intersection of skarn with a dark grey metasediment within limestone was intersected between 45.12 and 49.09 m. It contained less than 1% pyrite. Deeper in the hole, a 0.3 m section of skarn at a limestone-andesite-granodiorite contact contained 10% combined pyrite-pyrrhotite.

DDH 88-5 located 145 m southeast of the main showing was drilled toward the east at -45° to test a self-potential (SP) geophysical anomaly and a skarn horizon. The upper 23 m intersected banded argillites and calcareous siltstones with several basalt and andesite intervals. Each contained 3-7% pervasive pyrite and pyrrhotite as disseminations and fine stringers. A long section of granodiorite was encountered before limestone was intersected at 69.66 m. A small (6 cm) zone of skarn development occurred at this contact. Below 96.49 m banded argillite with calcareous interbeds and minor skarnification was present to the bottom of the hole at 114.63 m.

Diamond Drilling at Trench T-14-01 Area

An old trench and diamond drill hole collar, documented by Hand (1982), was investigated; it lies 575 metres south of Stramberg Lake in the north part of the GEX claim area. Andesite and limestone outcrop in the vicinity. Dark vuggy siliceous andesite with 10% pyrite in irregular quartz veinlets was sampled across 1.0 m in the eastern old trench. It assayed 0.496 oz Au/ton. A select sample from the western trench of the three trenches contained 210 ppb Au.

During January 1988 two diamond drill holes, 88-7 and 88-8, were drilled southward at -45° to test the area below the trenches. Drill profiles and a 1:400 plan map of the drill area are included in the pocket of this report.

DDH 88-7 encountered bedded limestone and argillite with several intervals of andesite and andesite porphyry. A sample of 0.91 m of skarn which showed garnet, diopside, quartz, pyrite, pyrrhotite and arsenopyrite between 17.38 and 18.29 m of depth contained 185 ppm Cu, 0.1 ppm Ag, 3900 ppm As, and 150 ppb Au. Other, narrower skarn zones with lesser sulphides were seen deeper in the hole.

DDH 88-8 encountered similar lithology to 88-7. Andesite porphyry near the top of the hole had a coarse crystalline texture resembling a gabbro. It contained equal amounts of pyrite and pyrrhotite totalling 15% sulphides. Quartz was abundant at the contacts with limestone. Sample 6.71-7.93 m from the central 1.22 m of the andesite porphyry returned 400 ppm Cu, 0.1 ppm Ag, 500 ppm As and 2250 ppb Au (equivalent to 0.066 oz Au/ton).

Other zones of silicification and skarn near limestone-andesite contacts were seen deeper in the hole. One sample of such material at 24.70-25.30 m contained 30 ppb Au.

Diamond Drilling at Quartz Vein Area

An area of high gold values was indicated by Hand (1982) as lying 650 m west of September Lake, 100 m north of the Village Bay Road. This area lies in the central part of the GEX claim area and is shown on the 1:5000 plan maps of the GEX grid.

Three samples were collected from an area of irregular, large quartz veins which contained up to 3% pyrite and 2% chalcopyrite. One of the samples, 12+10N 0+60E, contained 0.154 oz Au/ton across 0.75 m of sample width.

DDH 88-10 was drilled N30°E, -45° to test the area below this high value. Most of the hole was cored in grey-green nonporphyritic andesite. A 13.41 m intersection of limestone was encountered in the central part of the drill hole. No massive quartz veins or significantly wide sections of sulphides were encountered.

GEOLOGY AND ROCK GEOCHEMISTRY OF GEX GRID AREA

A hip chain and compass survey was established in the GEX claim area between September Lake and Open Bay for location of soil samples. A few outcrops within this area were examined and samples collected. A 1:5000 scale geology map of the area is included in the pocket of this report.

Outcrops along the shoreline of Open Bay offer the clearest picture of the stratigraphy. Grey limestone with numerous inclusions and lenses of volcanics dip moderately steeply to the northeast. Fault zones are common, and tight folding of the sedimentary rocks occurs near these structures. One such east-west-trending shear zone was sampled at 3+70S 9+00W. A 0.2 m chip across the pyritized andesite which contained inclusions of marble assayed 0.126 oz Au/ton, greater than 10,000 ppm As, and 1475 ppm Cu. Another sample 10 m to the west across 0.35 m of fault zone contained <5 ppb Au, 355 ppm Cu, and 22 ppm As.

A grab sample was collected at 23+00N 4+75W along the road to Open Bay. Outcrops of siliceous breccia with clasts of limestone are hosted in a larger limestone outcrop. The sample contained 10% pyrite and assayed 0.026 oz Au/ton. Values of 11 ppm Mo and 144 ppm Zn from this sample are also higher than most other rock samples from the GEX grid area.

The GEX grid was extended north to cover the 14-05 Trenches as documented by Hand (1982). More than 30 old, hand-dug trenches are present near 32+00N 10+20W. Five of the trenches

with visible sulphide mineralization were sampled. Andesite and limestone are present in the area. Abundant pyrrhotite and lesser pyrite and arsenopyrite occur in several of the sample. Highest gold value was acquired from sample 31+96N 10+11W where a 2.0 m chip sample of andesite with 3% pyrite + pyrrhotite carried 0.032 oz Au/ton.

Detailed geological mapping was undertaken at the "Epithermal Zone" located 650 m north of Open Bay. It lies within the GEX soil geochemical grid area at station 5+00N 4+50W. A 1:500 geology map with seven rock geochemical sample locations and analyses is located in the back pocket of this report.

Light grey to black limestone is the most abundant rock type exposed along the Open Bay road bank in the mapped area. It trends northwest with 56° to 65° dips to the southwest. Bisecting the limestone beds are silicified dykes of basalt and/or rhyolite. Petrographic descriptions indicate the presence of strongly altered basalt whereas during field examination several rhyolite and quartz-eye rhyolite dykes were seen.

The area of primary interest lies near 5+00N 4+50W where a shear zone with strong argillic and siliceous alteration contains 3-5% pyrite with local patches up to 70% pyrite. Scattered within this zone are traces of fine crystalline stibnite. Parts of the zone appear brecciated and contain limestone pods. Petrographic sample 490N 452W as described in the Appendix was collected from this zone. An intensely silicified basalt with abundant pyrophyllite and 10% pyrite was noted.

Attitude of the altered zone is thought to be approximately N40°W 45°N. This is based primarily on the presence of dark grey limestone which appears to irregularly underlie the south end of the zone. Width of the pyrite silicified zone may vary from 2.0 m at the north end to 5.0 m at the south end. Exposed length in the road-cut outcrop is 22.0 m.

None of the seven rock chip samples shows elevated gold or silver values. Within the silicified zone, high concentrations of arsenic, antimony and mercury are present. Sample 5+10N 4+55W which was 0.75 m long contained greater than 10,000 ppm As (>1.0%), 3,500 ppm Sb, and 91 ppm Hg.

The presence of strong argillic and siliceous alteration associated with volcanic rocks in a brecciated shear zone, combined with strong pyritization, indicate a hydrothermal source of mineralization. An epithermal (low temperature hydrothermal alteration) mineralizing event is suggested by the added presence of high concentrations of mercury and antimony. Arsenic is also commonly found with precious metal mineralization. Although gold or silver values are low in surface outcrops, elsewhere either laterally or at depth within the system elevated values may occur.

This area was not drilled during the December 1987-January 1988 programme.

SOIL GEOCHEMICAL SURVEY - GEX GRID AREA

Between September 22 and 30, 1987, a soil geochemical survey was carried out at the GEX claim group between September Lake and Open Bay. A baseline was established at a bearing of N30°W. Perpendicular lines at 100 m intervals were surveyed to the northeast and southwest. Soil samples were collected at 50 m stations along these lines. A total of 657 samples were collected from a depth of 0.15 to 0.30 m which corresponds to the "C" soil horizon. Areas where high organics occurred at a greater depth were generally in swampy areas. Such areas have been outlined on the 1:5000 plan maps.

Samples were collected with a mattock and shipped in Kraft paper envelopes to Chemex Labs of Vancouver, B.C. Samples were analysed for 33 elements, including gold. Analytical procedures and certificates of analysis are included in the Appendix. Locations of samples are shown on 1:5000 scale plan maps in the pocket of this report. Values of gold, arsenic and copper have been individually plotted. With the aid of a computer, anomalous values have been determined using probability plots. Graphs of cumulative percent versus logarithmic values of class intervals permit assignment of populations. Two graphs for each element have been drawn. One has inflection points or parameters which were visually estimated. The other uses predetermined parameters to generate a best-fit curve.

The following table lists anomalous values as determined from the probability plots included in the Appendix.

<i>Element</i>	<i>Anomalous Value</i>
Au	25 ppb
As	157 ppm
Cu	95 ppm
Zn	455 ppm
Cd	11 ppm

Gold

Values of gold in soils range from <5 ppb to 2270 ppb. The highest value of 2270 ppb Au was returned from 8+00N 8+00W. During the initial survey, 470 ppb had been returned from a sample at this location. Another sample was collected from the same location (deeper in the same hole) and 2270 ppb Au was detected. A rock chip sample collected from outcrop 4.0 m from the soil sample showed pyrite and quartz veinlets in andesite. However, less than 5 ppb Au was contained in this grab sample. A soil sample 115 m to the south contains an anomalous amount (225 ppm) of arsenic). Furthermore, the gold anomaly may lie along the same general trend as the silicified "Epithermal Zone", 400 m to the east.

A group of three anomalous gold values are present near 17+00N 9+00W. An anomalous value of 290 ppm arsenic lies within 50 m. No geological observations were made in this area.

Near the north end of the grid several high values of gold were returned from soils in the 14-05 trench area. Anomalous copper and arsenic are also present. Rock chip samples confirm the soil anomalies.

One hundred metres south of September Lake a north-south linear gold anomaly includes three samples on three separate lines. At the south end, sample 30+00N 8+50W contained 130 ppb Au and 615 ppm As.

Arsenic

Arsenic values in soils ranged from <5 to 5880 ppm. Probability plots suggest multiple populations of arsenic, but the data may be sub-populations of a single distribution. Only seven single sample anomalies are present. One of these anomalies not previously mentioned in the discussion of gold in soils is located at 23+00N 4+00W. Here, 365 ppm As occurs with 1040 ppm Zinc and 106 ppm copper. An adjacent sample, 50 m to the east, contained 25 ppb Au. A rock sample of silicified and brecciated limestone at 23+00N 4+75W contained 0.026 oz Au/ton.

Copper

Copper values in soils range from 4 to 867 ppm. Five multisample soil anomalies have been found. Other numerous single-point anomalies are also present on the grid. The largest anomaly is located near the Open Bay road near 23+00N 4+75W, as previously mentioned. The copper anomaly is broader than arsenic but not as extensive as anomalous (>455 ppm) zinc.

On lines 8+00N 8+50N, 10+50N, and 11+00N at the west edge of the grid area anomalous copper is present.

Copper is present in the 14-05 trench area near the north end of the claims.

CONCLUSIONS

The area of the "Great Gold" showing is underlain by moderately steeply southwest dipping limestone and lesser argillites and siltstone. Interbedded with these sediments are intermediate volcanics of the Triassic Karmutsen Formation. Similar volcanics and younger intrusive rocks of granite to diorite composition intrude the limestone as dykes, sills and small plugs. At the contacts of these intrusives with the limestone, garnet-diopside skarn has locally been developed. Sulphide mineralization including pyrite, pyrrhotite and massive chalcopyrite has also been developed at rock contacts, most often near limestone-granite or granodiorite contacts.

Gold concentrations up to 0.147 oz Au/ton across 3.70 m of chalcopyrite mineralization has been returned from surface samples. Diamond drilling below these trench samples returned significant sections of sulphide bearing skarn mineralization and gold values up to 0.020 oz Au/ton in 0.31 m of core length. Skarn and chalcopyrite mineralization with gold values up to 0.048 oz Au/ton are present in trenches north of the drill area.

DDH 87-5 located 1145 m south of the main showing was drilled to the east to test a self-potential geophysical anomaly and limestone and skarn mineralization which outcrops at surface. Pervasive pyrite and pyrrhotite in andesites and basalt and in argillites in the upper half of the hole probably account for the geophysical anomaly. Limestone encountered at depth contained minor skarn mineralization.

Drilling at the T14-01 trench area in the northern GEX claim group returned values up to 2250 ppb Au (0.066 oz /ton) from 1.22 m of andesite porphyry. However, no subsurface values were as high in gold as the overlying trench rock samples that contained up to 0.496 oz Au/ton.

Hole 88-10, located north of the Village Bay road tested a large, white quartz vein containing up to 0.154 oz Au/ton on surface. Andesite and limestone were transected in the hole but no significant width of quartz were encountered.

A soil geochemical sampling programme with a hip-chain and compass survey was undertaken in the southern part of the GEX claim area. A strongly silicified alteration zone accompanied by abundant clay, and pyrite and lesser stibnite is present near 5+00N 4+50W within the grid. This "Epithermal Zone" is 2.0 to 5.0 m wide and at least 22.0 m long. It trends northwest and dips moderately to the south.

The zone displays low temperature hydrothermal characteristics such as partial brecciation, abundant clay and siliceous alteration, abundant pyrite and occasional fine stibnite crystals. Rock

analyses contain greater than 10,000 ppm arsenic, up to 46 ppm mercury, and 3550 ppm antimony. Precious metal content, at least at this location in the zone, is low.

Several areas of anomalous gold with arsenic have been delineated by the soil geochemical survey. Northwest of the "Epithermal Zone", soil samples collected at 8+00N 8+00W contain up to 2270 ppb gold. Up to 225 ppm arsenic was returned from an adjacent sample 115 m to the south.

At the north end of the soil survey grid massive pyrrhotite, pyrite and arsenopyrite mineralization contains values up to 0.032 oz Au/ton. Soil samples from this area of numerous old trenches also contain anomalous gold and arsenic.

The area near 23+00N 4+00W shows strong arsenic (365 ppm) and elevated base metal values of 106 ppm copper and 1040 ppm zinc. Seventy-five metres to the west a grab sample of brecciated limestone along the Open Bay road cut assayed 0.026 oz Au/ton. The area of anomalous zinc also extends several hundred metres to the south.

Diamond drilling did not intersect gold values which could be of economic interest. In addition to skarn alteration, a more subtle pyrite-pyrrhotite-chalcopyrite-chlorite-epidote±silica characteristic of propylite alteration was noted, often near intrusives. This type of alteration may be more directly related to gold values than the more obvious skarn development. Support for this possibility is provided by the petrographic descriptions which suggest that sulphide introduction postdates skarnification.

Drilling of the "Epithermal Zone" and along the trend to the west is required to probe for an increase in precious metal values below the (high-level) geochemical signatures.

RECOMMENDATIONS

Additional diamond drilling is recommended along the northward extension of skarn and chalcopyrite mineralization at the Great Gold showing, and at the "Epithermal Zone." However, prior to additional drilling, a broader evaluation of the property is advisable.

Two methods are appropriate for the exploration required to adequately focus upon selective target areas. Firstly, an airborne geophysical survey employing magnetics and electromagnetics could cost-effectively outline areas of potential sulphide mineralization as well as important structures.

Secondly, with results of the airborne survey, areas could be selected for surface exploration. Hip-chain and compass grid layout with subsequent ground geophysics such as magnetometer, horizontal loop EM, and induced polarization surveys, and soil geochemical and geological mapping could establish areas which warrant trenching and/or diamond drilling.

Several areas in the GEX soil geochemical grid have already been outlined which require detailed geological and rock geochemical investigation. These include the T 14-05 trench area, 8+00N 8+00W, 30+00N 8+50W, and 23+00N 4+00W areas.

COST ESTIMATE

Phases 1 and 2 as outlined by Goldsmith and Kallock (1987) have been completed and are documented by this report.

Phase 3

Airborne geophysical survey to cover entire property; geophysical, geological and geochemical surveys of airborne anomalies and previously established anomalies in GEX grid area; dozer and/or backhoe trenching

Airborne geophysical survey, ±250 km	\$ 40,000	
Geophysical interpretation and evaluation	2,000	
Ground geophysical, and soil geochemical surveys	15,000	
Geological mapping	11,000	
Geochemical analyses	10,000	
Dozer for backhoe trenching	10,000	
Transportation	5,000	
Food & lodging	5,000	
Engineering and supervision	10,000	
Reporting	<u>7,000</u>	
	115,000	
Contingencies at 10%	<u>11,500</u>	
Total Phase 3	\$126,500	\$126,500

Phase 4

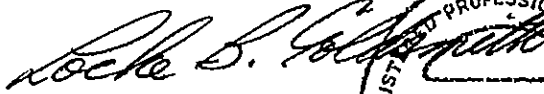
Diamond drilling of targets outlined in phases 2 and 3.

Diamond drilling allow \$240,000

Total phases 3 and 4 **\$366,500**

Results of each Phase should be compiled into an engineering report; continuance to Phase 4 should be contingent upon receiving favourable conclusions and recommendations from an Engineer.

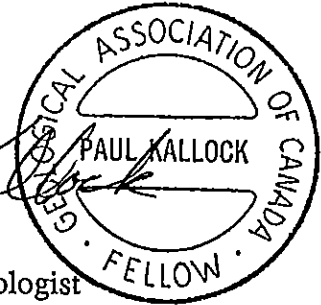
Respectfully submitted,



Locke B. Goldsmith, P.Eng.
Consulting Geologist



Paul Kallock
Consulting Geologist



Vancouver, B.C.

April 19, 1988

ENGINEER'S CERTIFICATE
LOCKE B. GOLDSMITH

1. I, Locke B. Goldsmith, am a Registered Professional Engineer in the Province of Ontario and the Northwest Territories, and a Registered Professional Geologist in the State of Oregon. My address is 301, 1855 Balsam Street, Vancouver, B.C.
2. I have a B.Sc. (Honours) degree in Geology from Michigan Technological University, a M.Sc. degree in Geology from the University of British Columbia, and have done postgraduate study in Geology at Michigan Tech and the University of Nevada. I am a graduate of the Haileybury School of Mines, and am a Certified Mining Technician. I am a Member of the Society of Economic Geologists, the AIME, and the Australasian Institute of Mining and Metallurgy, and a Fellow of the Geological Association of Canada.
3. I have been engaged in mining exploration for the past 29 years.
4. I have co-authored the report entitled, "Geology, Rock and Soil Geochemistry, and Diamond Drilling, Nat, Tam and Tan Mineral Claim Groups, Quadra Island, Campbell River, B.C." dated April 19, 1988. The report is based upon fieldwork and research supervised by the author.
5. I have no ownership in the property, nor in the stocks of Lone Jack Resources Ltd.
6. I consent to the use of this report in a prospectus, or in a statement of material facts related to the raising of funds.

Respectfully submitted,



Locke B. Goldsmith
Locke B. Goldsmith, P.Eng.
Consulting Geologist

Vancouver, B.C.

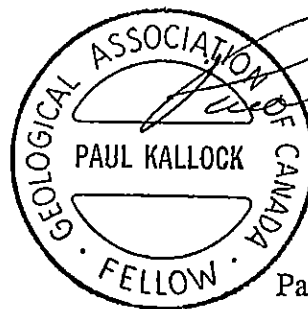
April 19, 1988

GEOLOGIST'S CERTIFICATE
PAUL KALLOCK

I, Paul Kallock, do state: that I am a Geologist with Arctex Engineering Services, 301 - 1855 Balsam Street, Vancouver, B.C.

I Further State That:

1. I have a B.Sc. degree in Geology from Washington State University, 1970. I am a Fellow of the Geological Association of Canada.
2. I have engaged in mineral exploration since 1970, both for major mining and exploration companies and as an independent geologist.
3. I have co-authored the report entitled, "Geology, Rock and Soil Geochemistry, and Diamond Drilling, Nat, Tam and Tan Mineral Claim Groups, Quadra Island, Campbell River Area, B.C." The report is based on my fieldwork carried out on the property and on previously accumulated geologic data.
4. I have no direct or indirect interest in any manner in either the property or securities of Lone Jack Resources Ltd., or its affiliates, nor do I anticipate to receive any such interest.
5. I consent to the use of this report in a prospectus, or in a statement of material facts related to the raising of funds.



Paul Kallock
Geologist

Vancouver, B.C.

April 19, 1988

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COST STATEMENT 1987-88 PROGRAMME

GREAT GOLD & GEX GROUPS

A) Wages:

L.B. Goldsmith, $\frac{1}{4}$ June 9, $\frac{1}{4}$ 10, $\frac{1}{2}$ 16, $\frac{1}{2}$ July 1, $\frac{1}{2}$ 2, $\frac{1}{4}$ Sept. 29, Nov. 19, $\frac{1}{2}$ 20, $\frac{1}{4}$ 21, $\frac{1}{2}$ 23, $\frac{1}{2}$ 26, $\frac{1}{2}$ Dec. 2, 7, $\frac{1}{2}$ 9, $\frac{3}{4}$ 11, $\frac{3}{4}$ 13, $\frac{3}{4}$ 14, 15-18, $\frac{3}{4}$ 19, $\frac{1}{4}$ 20, $\frac{3}{4}$ 21, 22, $\frac{3}{4}$ 23, $\frac{1}{2}$ 24, $\frac{1}{2}$ 25, 26-30, $\frac{3}{4}$ 31, $\frac{1}{2}$ Jan. 2, 15, 23, Feb. 3, total 27 days at \$400/day	\$10,800.00	
P. Kallock, June 10-14, $\frac{3}{4}$ Sept. 18, 19-29, $\frac{1}{4}$ 30, Nov. 19, 20, Dec. 3, 4, $\frac{1}{2}$ 5, 6, Feb. 20, 21, 22, $\frac{1}{2}$ March 8, $\frac{1}{2}$ 10, 11, total 27 $\frac{1}{2}$ days at \$330/day	9,075.00	
G. Peel, September, October, November	5,604.01	
A. Charest, September 18-20, total 3 days at \$230/day	690.00	
	<hr/>	
	26,169.01	\$ 26,169.01

B) Accommodation, Food:

57 $\frac{1}{2}$ days cost \$2063.82 = \$35.89/man/day 2,063.82

C) Transportation:

Air fares	1,160.50	
Car rentals	1,433.69	
Gas	246.01	
Ferry	165.50	
Parking	69.50	
	<hr/>	
	3,075.20	3,075.20

D) Physical:

690-B backhoe, 131.5 hr @ \$75/hr	9,862.50	
D40 dozer, 130 hr @ \$60/hr	7,800.00	
Culvert	443.08	
Lowbedding	1,519.80	
	<hr/>	
	19,625.38	19,625.38

E) Diamond Drilling:

604.95 metres cost \$55,955.50 = \$92.50/m 55,955.50

Cont. /...

F) Analyses:

657 soil samples, 48 rock samples, 24 core samples: total 729 samples cost = \$15.41/sample	\$11,230.60	
Petrography	<u>562.00</u>	
	11,792.60	\$ 11,792.60

G) Report:

Drafting, word processing, prints, photocopying, materials		<u>5,876.27</u>
	TOTAL	\$124,557.78



Chemex Labs Inc.

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A8723747

Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

CERTIFICATE A8723747

ARCTEX ENGINEERING
PROJECT : QUADRA G-GOLD
P.O # : NONE

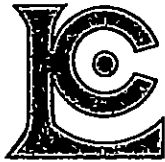
Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-OCT-87.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
207	22	Assay: Crush, split, pulv -140
238	22	ICP: Aqua regia digestion

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
385	22	Ag oz/T: Aqua regia digestion	AAS	0.01	20.0
398	22	Au oz/T: 1/2 assay ton	FA-AAS	0.002	20.00
921	22	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	22	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	22	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	22	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	22	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	22	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	22	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	22	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	22	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	22	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	22	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	22	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	22	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	22	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	22	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	22	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	22	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	22	Mn ppm: 32 element, soil & rock	ICP-AES	1	10000
938	22	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	22	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	22	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	22	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	22	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	22	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
952	22	Se ppm: 32 element, soil & rock	ICP-AES	10	10000
944	22	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	22	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	22	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	22	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	22	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	22	W ppm: 32 element, soil & rock	ICP-AES	5	10000
950	22	Zn ppm: 32 element, soil & rock	ICP-AES	1	10000



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Project: QUADRA GEX
 Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

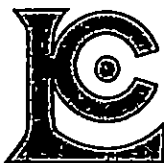
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 Tot. Pages: 1
 Date : 16-OCT-87
 Invoice #: I-8723746
 P.O. # NONE

CERTIFICATE OF ANALYSIS A8723746

SAMPLE DESCRIPTION	PREP CODE	Ag oz/T	An oz/T	Al %	Ag ppm	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
11+86N 04+50E	207 238	0.17	0.006	0.77	< 0.2	3400	70	< 0.5	< 2	1.36	< 0.5	27	20	503	>15.00	< 10	< 1	0.13	< 10	0.22
12+00N 04+50E	207 238	0.05	0.002	0.49	< 0.2	295	10	< 0.5	< 2	0.36	< 0.5	14	24	1290	5.02	< 10	< 1	0.01	< 10	0.30
12+10N 04+60E	207 238	0.96	0.154	0.88	31.2	180	< 10	< 0.5	< 2	0.20	2.0	13	28	>10000	7.30	< 10	< 1	0.01	< 10	0.61
24+05N 04+90E	207 238	0.10	0.006	1.75	6.8	190	10	< 0.5	< 2	0.16	0.5	22	41	6230	8.85	< 10	< 1	0.04	< 10	0.75
04+75N 4+55W	207 238	0.05	0.008	2.53	0.2	120	10	< 0.5	6	2.02	< 0.5	27	24	693	5.84	< 10	< 1	0.04	< 10	0.93
04+90N 4+52W	207 238	0.01	< 0.002	0.92	< 0.2	8130	80	< 0.5	< 2	0.25	< 0.5	6	2	125	3.99	< 10	19	0.02	< 10	0.05
04+96N 4+51W	207 238	< 0.01	< 0.002	0.84	< 0.2	>10000	100	< 0.5	2	0.13	< 0.5	7	12	103	3.79	< 10	27	0.01	< 10	0.06
05+10N 4+55W	207 238	0.02	0.002	1.68	< 0.2	>10000	30	< 0.5	2	1.27	0.5	13	8	91	4.78	< 10	46	0.01	< 10	0.16
05+61N 4+65W	207 238	0.03	< 0.002	6.15	< 0.2	550	180	< 0.5	4	2.95	< 0.5	17	39	54	5.56	< 10	1	0.42	< 10	1.71
06+00N 4+75W	207 238	0.03	< 0.002	6.01	< 0.2	155	180	< 0.5	6	3.33	< 0.5	12	6	45	6.11	10	< 1	0.19	< 10	1.16
06+15N 4+80W	207 238	0.03	0.002	5.57	< 0.2	85	260	< 0.5	4	2.83	< 0.5	12	6	49	5.79	< 10	< 1	0.20	< 10	1.35
13+25N 5+50W	207 238	0.03	0.002	5.59	< 0.2	75	40	< 0.5	6	4.11	< 0.5	22	6	139	5.53	< 10	< 1	0.06	< 10	1.67
20+00N 2+25W	207 238	0.05	< 0.002	0.31	0.6	150	< 10	< 0.5	2	0.23	1.0	60	15	2700	8.04	< 10	< 1	0.02	< 10	0.10
23+50N 1+25W	207 238	0.06	0.496	3.66	1.4	105	140	< 0.5	14	0.95	< 0.5	17	4	547	7.63	10	< 1	0.30	< 10	1.20
23+00N 4+75W	207 238	0.03	0.026	4.08	0.2	55	120	< 0.5	6	5.61	2.5	12	27	45	3.87	< 10	< 1	0.16	< 10	0.70
30+15N 12+00W	207 238	0.01	< 0.002	3.03	< 0.2	< 5	10	< 0.5	< 2	1.34	< 0.5	35	50	207	5.75	10	< 1	0.01	< 10	3.02
31+96N 10+09W	207 238	0.01	0.004	2.43	< 0.2	1110	200	< 0.5	2	0.79	< 0.5	3	9	231	5.04	< 10	< 1	0.82	< 10	0.40
31+96N 10+11W	207 238	0.03	0.032	1.81	0.2	9130	180	< 0.5	6	0.39	< 0.5	9	7	525	5.52	< 10	< 1	0.84	< 10	0.28
32+14N 10+14W	207 238	0.03	0.002	3.32	0.2	160	320	< 0.5	4	1.55	< 0.5	10	15	266	5.00	10	1	0.96	< 10	0.84
32+30N 10+34W	207 238	0.03	0.002	3.06	< 0.2	85	290	< 0.5	4	1.44	< 0.5	9	11	294	5.06	10	< 1	0.90	< 10	0.85
32+31N 10+33W	207 238	0.13	0.030	1.90	0.4	4370	60	< 0.5	4	0.83	< 0.5	8	< 1	2400	>15.00	< 10	< 1	0.33	< 10	0.42
03+70S 09+00W	207 238	0.12	0.126	0.38	< 0.2	>10000	20	< 0.5	10	0.12	< 0.5	43	< 1	1475	>15.00	< 10	< 1	0.12	< 10	0.13

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 944-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA GEX

Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

Page No. : 1-B
Tot. Pages: 1
Date : 16-OCT-87
Invoice #: I-8723746
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723746

SAMPLE DESCRIPTION	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
11+86N 0+50E	207 238	236	< 1	0.14	72	320	< 2	5	< 10	95	0.30	< 10	< 10	104	< 5	43
12+00N 0+50E	207 238	172	2	0.04	16	170	< 2	< 5	< 10	27	0.14	< 10	< 10	44	< 5	16
12+10N 0+60E	207 238	220	< 1	0.03	12	< 10	< 2	< 5	10	16	0.13	< 10	< 10	74	< 5	92
24+05N 0+90E	207 238	435	< 1	0.03	24	380	< 2	< 5	< 10	25	0.01	< 10	< 10	79	< 5	95
04+75N 4+55W	207 238	347	< 1	0.30	34	550	< 2	5	< 10	174	0.48	< 10	< 10	122	< 5	36
04+90N 4+52W	207 238	48	1	0.04	5	210	8	505	< 10	130	< 0.01	< 10	< 10	50	< 5	16
04+96N 4+51W	207 238	169	4	0.02	20	580	< 2	880	10	81	< 0.01	< 10	< 10	96	< 5	34
05+10N 4+55W	207 238	107	4	0.01	26	560	24	3550	10	220	< 0.01	< 10	< 10	114	< 5	218
05+61N 4+65W	207 238	530	< 1	0.70	31	790	< 2	155	10	677	0.17	< 10	< 10	109	< 5	59
06+00N 4+75W	207 238	309	< 1	0.90	4	890	2	20	< 10	855	0.23	< 10	< 10	85	< 5	10
06+15N 4+80W	207 238	435	2	0.81	4	760	< 2	10	10	786	0.18	< 10	< 10	89	< 5	12
13+25N 5+50W	207 238	535	< 1	0.49	6	1780	6	10	10	323	0.18	< 10	< 10	96	< 5	48
20+00N 2+25W	207 238	129	< 1	0.03	14	120	< 2	5	< 10	21	0.01	< 10	< 10	1	< 5	67
23+50N 1+25W	207 238	569	< 1	0.24	4	720	< 2	5	10	87	0.20	< 10	< 10	93	< 5	57
23+00N 4+75W	207 238	489	11	0.55	28	770	2	5	20	365	0.15	< 10	< 10	89	< 5	144
30+15N 12+00W	207 238	682	< 1	0.21	45	720	18	< 5	10	79	0.78	< 10	< 10	270	< 5	69
31+96N 10+09W	207 238	279	1	0.17	4	890	4	< 5	< 10	52	0.14	< 10	< 10	21	< 5	47
31+96N 10+11W	207 238	128	1	0.06	3	850	2	< 5	10	27	0.07	< 10	< 10	9	< 5	31
32+14N 10+14W	207 238	419	3	0.47	6	1130	4	< 5	< 10	280	0.31	< 10	< 10	50	< 5	50
32+30N 10+34W	207 238	419	3	0.40	5	1130	< 2	5	10	246	0.29	< 10	< 10	51	< 5	50
32+31N 10+33W	207 238	220	< 1	0.19	5	630	< 2	10	< 10	100	0.05	< 10	10	10	< 5	36
03+70S 09+00W	207 238	83	< 1	0.02	4	210	< 2	50	< 10	6	0.01	< 10	20	< 1	< 5	13

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA G-GOLD

Comments: CC: PAUL KALLOCK

CC: RUDY RIEPE

Page No. :1-A

Tot. Pages:1

Date :21-OCT-87

Invoice #:I-8723747

P.O. #:NONE

CERTIFICATE OF ANALYSIS A8723747

SAMPLE DESCRIPTION	PREP CODE	Ag oz/T	Au oz/T	Al %	Ag ppm	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
2+70N 2+15E	207 238	0.05<	0.002	1.19	1.4	55	60	< 0.5	2	1.42	1.5	9	16	268	3.46	< 10	< 1	0.15	< 10	0.09
2+70N 2+20E	207 238	0.08	0.002	2.23	2.0	25	60	< 0.5	< 2	4.21	5.5	17	64	200	4.24	< 10	< 1	0.08	< 10	0.15
2+90N 2+20E	207 238	0.03<	0.002	2.73	1.0	15	70	< 0.5	2	4.31	0.5	26	53	152	4.43	< 10	< 1	0.03	< 10	0.15
3+00N 0+50E	207 238	0.08	0.002	2.15	2.4	150	180	< 0.5	6	4.41	9.0	12	35	167	2.22	< 10	< 1	0.04	< 10	0.32
3+05N 2+35E	207 238	0.03<	0.002	2.50	0.2	5	170	< 0.5	2	2.53	1.0	36	25	217	3.78	< 10	< 1	0.04	< 10	0.10
3+06N 2+38E	207 238	0.03<	0.002	1.78	0.2	35	60	< 0.5	< 2	2.44	2.0	22	51	108	2.78	< 10	< 1	0.03	< 10	0.15
4+99N 1+13E	207 238	0.86	0.048	0.50	27.8	< 5	10	< 0.5	140	1.51	66.0	23	7	>10000	5.44	< 10	< 1	< 0.01	< 10	0.04
5+00N 1+14E	207 238	0.90	0.036	0.87	30.6	< 5	20	< 0.5	250	1.49	64.0	35	8	>10000	6.83	< 10	4	0.02	< 10	0.13
5+09N 1+04E	207 238	1.06	0.191	1.59	36.8	< 5	< 10	< 0.5	646	4.04	58.0	22	12	>10000	4.08	< 10	< 1	< 0.01	< 10	0.04
5+10N 1+05E	207 238	0.93	0.100	0.81	31.0	< 5	< 10	< 0.5	274	2.25	92.0	28	9	>10000	4.89	< 10	1	< 0.01	< 10	0.04
5+10N 1+55E	207 238	0.01	0.002	0.81	0.2	5710	60	< 0.5	< 2	2.37	0.5	15	8	233	6.16	< 10	10	0.01	< 10	0.12
5+50N 0+78E	207 238	0.07	0.002	1.88	2.0	< 5	380	< 0.5	10	4.03	4.5	17	41	955	3.79	< 10	2	0.08	< 10	0.17
5+50N 0+80E	207 238	0.16	0.008	1.36	4.0	< 5	30	< 0.5	34	2.71	26.5	8	30	3380	1.92	< 10	2	< 0.01	< 10	0.17
5+53N 0+79E	207 238	0.05	0.002	2.06	0.2	5	20	< 0.5	4	3.52	5.0	7	47	905	1.48	< 10	< 1	0.01	< 10	0.22
5+56N 0+73E	207 238	0.41	0.044	1.43	12.6	< 5	20	< 0.5	138	2.94	7.5	5	13	4980	4.69	< 10	< 1	0.01	< 10	0.09
5+75N 0+78E	207 238	0.13	0.006	1.90	3.4	< 5	10	< 0.5	20	3.68	4.0	11	44	2290	2.60	< 10	< 1	< 0.01	< 10	1.41
5+75N 0+80E	207 238	0.25	0.010	1.57	6.8	< 5	10	< 0.5	34	2.95	9.0	20	38	4730	3.30	< 10	1	< 0.01	< 10	0.42
5+80N 0+58E	207 238	0.39	0.048	1.45	15.4	< 5	20	< 0.5	182	3.70	50.0	29	10	>10000	5.61	< 10	< 1	< 0.01	< 10	0.08
6+12N 0+62E	207 238	0.03	0.004	1.86	0.4	20	30	< 0.5	12	2.87	7.5	11	49	365	2.45	< 10	< 1	< 0.01	< 10	0.63
6+15N 0+65E	207 238	0.03	0.002	2.13	0.2	< 5	60	< 0.5	2	4.48	2.5	5	45	180	1.24	< 10	1	< 0.01	< 10	0.29
6+18N 0+54E	207 238	0.74	0.030	0.76	24.0	< 5	< 10	< 0.5	84	3.72	70.0	30	19	>10000	3.22	< 10	< 1	< 0.01	< 10	0.10
6+22N 0+54E	207 238	0.11	0.014	1.77	3.4	< 5	30	< 0.5	70	4.36	8.5	6	44	1860	2.29	< 10	< 1	< 0.01	< 10	0.10

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION :

BCJ



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA G-GOLD

Comments: CC: PAUL KALLOCK

CC: RUDY RIEPE

Page No. : 1-B

Tot. Pages: 1

Date : 21-OCT-87

Invoice #: I-8723747

P.O. #: NONE

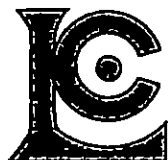
CERTIFICATE OF ANALYSIS A8723747

G. Gold Rocks

SAMPLE DESCRIPTION	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
2+70N 2+15E	207 238	375	3	0.20	21	620	4	5	30	127	0.17	< 10	< 10	41	< 5	80
2+70N 2+20E	207 238	294	1	0.45	34	1220	10	5	60	433	0.24	< 10	< 10	139	< 5	323
2+90N 2+20E	207 238	433	1	0.16	38	1800	6	5	30	276	0.19	< 10	< 10	112	< 5	53
3+00N 0+50E	207 238	290	< 1	0.08	33	760	102	< 5	< 10	135	0.14	< 10	< 10	51	< 5	410
3+05N 2+35E	207 238	334	6	0.23	81	640	2	< 5	20	339	0.19	< 10	< 10	53	< 5	94
3+06N 2+38E	207 238	478	8	0.11	59	640	10	5	10	143	0.22	< 10	< 10	162	< 5	182
4+99N 1+13E	207 238	1735	4	0.01	6	< 10	< 2	< 5	30	16	0.01	< 10	< 10	< 1	320	3130
5+00N 1+14E	207 238	2100	< 1	0.04	6	< 10	< 2	5	30	19	0.09	< 10	< 10	4	150	2900
5+09N 1+04E	207 238	3820	< 1	< 0.01	7	< 10	< 2	10	50	2	0.01	< 10	< 10	< 1	480	2100
5+10N 1+05E	207 238	2240	5	< 0.01	3	< 10	2	5	60	3	0.01	< 10	< 10	2	455	3150
5+10N 1+55E	207 238	306	12	0.02	16	1720	< 2	5830	< 10	394	0.01	< 10	< 10	146	< 5	64
5+50N 0+78E	207 238	264	4	0.17	69	730	< 2	15	30	393	0.14	< 10	< 10	78	15	183
5+50N 0+80E	207 238	1675	7	0.04	10	560	< 2	10	10	40	0.11	< 10	< 10	36	70	1345
5+53N 0+79E	207 238	1415	< 1	0.08	15	830	< 2	10	< 10	65	0.14	< 10	< 10	56	15	322
5+56N 0+73E	207 238	2950	< 1	0.02	2	140	6	5	30	11	0.02	< 10	< 10	3	255	484
5+75N 0+78E	207 238	2900	< 1	0.01	13	690	< 2	5	10	7	0.13	< 10	< 10	61	25	207
5+75N 0+80E	207 238	2500	< 1	0.04	22	580	< 2	10	10	19	0.15	< 10	< 10	67	190	363
5+80N 0+58E	207 238	4070	< 1	0.01	11	< 10	< 2	5	60	13	0.01	< 10	< 10	< 1	510	1345
6+12N 0+62E	207 238	1950	< 1	0.10	46	670	4	10	< 10	56	0.16	< 10	< 10	63	15	296
6+15N 0+65E	207 238	650	< 1	0.03	20	730	< 2	5	< 10	81	0.15	< 10	< 10	53	< 5	171
6+18N 0+54E	207 238	1750	< 1	< 0.01	52	< 10	< 2	5	60	10	0.06	< 10	< 10	22	145	1410
6+22N 0+54E	207 238	3520	< 1	< 0.01	10	310	14	10	10	2	0.14	< 10	< 10	62	< 5	356

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK

Page No.: 1

Tot. Pages: 1

Date: 22-DEC-87

Invoice #: I-8727815

P.O. #: NONE

CERTIFICATE OF ANALYSIS A8727815

SAMPLE DESCRIPTION	PREP CODE	Cu ppm	As ppm	Au ppb FA+AA								
GEX 1+35W 23+00N	205 ---	197	33	210								
GEX 6+00W 7+80N	205 ---	30	6	<< 5								
GEX 8+04W 8+00N	205 ---	15	3	<< 5								
GEX 9+10W 3+70S	205 ---	355	22	<< 5								

CERTIFICATION : _____



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Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE. NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C
V6K 3M3

A8727770

Comments:

CERTIFICATE A8727770

ARCTEX ENGINEERING
PROJECT : QUADRA
P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-DEC-87

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
207	1	Assay: Crush, split, pulv -140

* NOTE 2:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	1	Cu %: HClO ₄ -HNO ₃ digestion	AAS	0.01	100.0
333	1	Ag oz/T	FA-GRAVIMETRIC	0.01	20.00
396	1	Au oz/T. 1/2 assay ton	FA-GRAVIMETRIC	0.003	20.000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCIEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments:

Page No. : 1

Tot. Pages: 1

Date : 21-DEC-87

Invoice #: I-8727770

P.O. # : NONE

CERTIFICATE OF ANALYSIS A8727770

SAMPLE DESCRIPTION	PREP CODE	Cu %	Ag FA oz/T	Au FA oz/T								
Q87-1 27.5-28.5'	207 --	1.30	0.58	0.020								

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

CERTIFICATION :

N. Slobomanis



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments:

Page No. : 1
Tot. Pages: 1
Date : 07-JAN-88
Invoice # : I-8728567
P.O. # :

CERTIFICATE OF ANALYSIS A8728567

SAMPLE DESCRIPTION	PREP CODE	Cu %	Ag FA oz/T	Au FA oz/T								
Q874129.2-129.55	207 --	0.07	0.01	< 0.003								

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION :

W. Glen [Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments:

Page No. : 1

Tot. Pages: 1

Date : 29-JAN-88

Invoice #: I-8810763

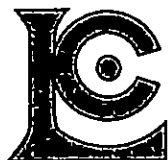
P.O. # :

CERTIFICATE OF ANALYSIS A8810763

Corrected copy for Au - Calculation error

SAMPLE DESCRIPTION	PREP CODE	Cu ppm	Ag ppm Aqua R	As ppm	Au ppb FA+AA							
<i>Hole</i> 87-3												
80-85	205	---	84	0.2	30	<	5					
85-90	205	---	108	0.5	50	<	5					
90-95	205	---	247	0.6	33	<	5					
105-110	205	---	149	0.3	17	<	5					
135-140	205	---	31	0.2	71	<	5					
145-150	205	---	163	0.4	15		5					

CERTIFICATION : _____



Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 WEST GLENDALE AVE., SUITE 7, SPARKS,
NEVADA, U.S.A. 89431
PHONE (702) 356-5395

To: ARCTEX ENGINEERING SERVICES

2390 - 1055 W. HASTINGS ST.
VANCOUVER, B.C.
V6E 2E9

Project: QUADRA
Comments: CC: PAUL KALLOCK

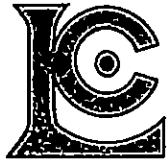
Page No. : 1
Tot. Pages: 1
Date : 2-MAR-88
Invoice #: I-8812088
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8812088

SAMPLE DESCRIPTION	PREP CODE	Cu ppm	Ag ppm Aqua R	As ppm	Au ppb FA+AA						
Q-87-3 95-100	205 ---	295	0.2	30	5						
Q-87-3 100-105	205 ---	147	0.1	15	5						
Q-87-3 110-115	205 ---	82	0.1	25	5						
Q-87-3 115-120	205 ---	46	0.1	15	5						
Q-87-3 120-125	205 ---	62	0.1	14	5						
Q-87-3 125-130	205 ---	103	0.1	5	5						
Q-87-3 130-135	205 ---	57	0.1	59	5						
Q-87-3 140-145	205 ---	550	0.6	59	5						
150-157&211-216	205 ---	38	0.1	22	5						
Q-87-4 39.8-44.0	205 ---	3000	4.2	24	400						
Q-87-4 49.0-54.0	205 ---	2220	2.8	11	1250						
Q-87-4 54.0-61.5	205 ---	40	0.1	11	30						
Q-88-7 57.0-60.0	205 ---	185	0.1	3900	150						
Q-88-8 17.3-22.0	205 ---	210	0.8	420	870						
Q-88-8 22.0-26.0	205 ---	400	0.1	500	2250						
Q-88-8 81.0-83.0	205 ---	141	0.1	9	30						

COPY

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

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

A8727814

Comments: CC: PAUL KALLOCK

CERTIFICATE A8727814

ARCTEX ENGINEERING
PROJECT : QUADRA
P O # : NONE

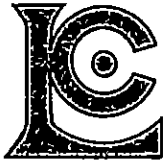
Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-DEC-87.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	1	Dry, sieve -80 mesh; soil, sed.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2	1	Cu ppm: HNO ₃ -aqua regia digest	AAS	1	10000
13	1	As ppm: HNO ₃ -aqua regia digest	AAS-HYDRIDE/EDL	1	10000
100	1	Au ppb: Fuse 10 g sample	FA-AAS	5	10000



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VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK

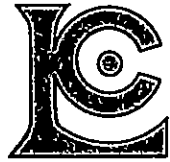
Page No. : 1
Tot. Pages. 1
Date : 21-DEC-87
Invoice # : I-8727814
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8727814

SAMPLE DESCRIPTION	PREP CODE	Cu ppm	As ppm	Au ppb FA+AA								
8+00N 8+00W GEX S-1 Re-sample	201 --	16	23	2270								

CERTIFICATION :

Haut/Bichler



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Project: QUADRA

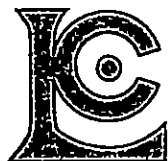
Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

Page No. : 1-A
Tot. Pages: 6
Date : 14-OCT-87
Invoice #: I-8723743
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L1+00N 00+00W	201 238	< 5	2.81	0.2	135	170	< 0.5	< 2	0.78	2.5	24	71	40	5.17	< 10	< 1	0.02	< 10	0.19	2350
L1+00N 00+50W	201 238	< 5	2.61	0.4	15	120	< 0.5	< 2	0.78	3.0	24	45	45	4.88	10	1	0.02	< 10	0.25	2150
L1+00N 01+00W	201 238	< 5	4.25	0.4	25	80	< 0.5	< 2	0.62	0.5	14	16	47	3.31	< 10	< 1	0.05	< 10	0.73	440
L1+00N 01+50W	203 238	< 5	2.05	0.2	< 5	100	< 0.5	< 2	0.47	< 0.5	9	92	20	2.69	< 10	3	0.14	< 10	0.57	454
L1+00N 02+00W	217 238	< 5	2.62	< 0.2	35	30	< 0.5	< 2	0.79	< 0.5	11	80	18	2.76	< 10	< 1	0.07	< 10	0.67	456
L1+00N 02+50W	203 238	< 5	2.38	0.2	20	40	< 0.5	< 2	0.52	1.0	9	79	21	2.76	< 10	< 1	0.05	< 10	0.51	421
L1+00N 03+00W	217 238	< 5	4.56	0.6	15	320	< 0.5	< 2	0.88	1.0	12	75	53	3.04	< 10	< 1	0.11	10	0.55	746
L1+00N 03+50W	201 238	< 5	4.00	0.2	40	70	< 0.5	< 2	0.33	< 0.5	11	22	23	3.22	< 10	< 1	0.09	< 10	0.52	572
L1+00N 04+00W	201 238	< 5	4.39	0.4	60	60	< 0.5	< 2	0.37	0.5	11	38	30	3.50	< 10	< 1	0.03	< 10	0.49	523
L1+00N 04+50W	201 238	< 5	2.61	0.2	45	60	< 0.5	< 2	0.27	< 0.5	8	19	17	2.82	< 10	< 1	0.04	< 10	0.36	602
L1+00N 05+00W	201 238	< 5	2.76	0.4	15	120	< 0.5	< 2	0.30	1.0	20	7	41	4.49	10	< 1	0.03	< 10	0.30	1495
L1+00N 05+50W	201 238	< 5	1.43	< 0.2	10	60	< 0.5	< 2	0.22	< 0.5	6	8	8	2.40	10	< 1	0.09	< 10	0.27	580
L1+00N 06+00W	201 238	< 5	3.02	0.2	5	80	< 0.5	< 2	0.34	< 0.5	10	15	21	3.01	10	< 1	0.08	< 10	0.53	567
L1+00N 06+50W	201 238	< 5	1.84	0.4	15	80	< 0.5	< 2	0.45	1.0	7	12	20	2.55	< 10	< 1	0.07	< 10	0.42	440
L1+00N 07+00W	201 238	< 5	3.08	0.2	< 5	70	< 0.5	< 2	0.71	< 0.5	8	12	27	2.73	< 10	2	0.06	< 10	0.56	406
L1+00N 07+50W	201 238	< 5	1.73	0.2	25	60	< 0.5	< 2	1.03	< 0.5	5	8	22	2.44	< 10	< 1	0.04	< 10	0.30	780
L1+00N 08+00W	201 238	< 5	2.43	0.4	25	80	< 0.5	< 2	1.78	1.0	9	19	44	3.75	10	1	0.03	< 10	0.38	1465
L1+00N 08+50W	201 238	100	2.04	< 0.2	< 5	30	< 0.5	< 2	0.32	< 0.5	4	15	9	4.21	10	< 1	0.02	< 10	0.22	311
L1+00N 09+00W	201 238	< 5	3.31	0.2	35	50	< 0.5	< 2	0.51	< 0.5	8	15	17	2.48	< 10	< 1	0.10	10	0.46	263
L1+00N 09+50W	201 238	< 5	1.96	< 0.2	< 5	50	< 0.5	< 2	0.52	< 0.5	6	9	12	2.54	10	1	0.05	< 10	0.24	815
L1+00N 10+00W	201 238	< 5	1.69	0.4	20	340	< 0.5	< 2	0.79	< 0.5	37	17	83	4.42	20	< 1	0.06	< 10	0.43	9440
L2+00N 00+00W	203 238	< 5	2.61	0.4	< 5	100	< 0.5	< 2	0.65	1.5	18	101	29	3.08	10	< 1	0.09	< 10	0.71	2290
L2+00N 00+50W	217 238	< 5	0.88	0.4	< 5	50	< 0.5	< 2	0.64	0.5	6	113	20	1.70	< 10	1	0.04	< 10	0.30	675
L2+00N 01+00W	201 238	< 5	0.66	< 0.2	< 5	60	< 0.5	< 2	0.31	< 0.5	3	12	6	1.97	< 10	< 1	0.03	< 10	0.17	515
L2+00N 01+50W	217 238	< 5	2.32	< 0.2	< 5	50	< 0.5	< 2	0.58	0.5	14	81	26	2.74	< 10	< 1	0.06	< 10	0.61	911
L2+00N 02+00W	217 238	< 5	0.68	0.2	5	40	< 0.5	< 2	0.34	< 0.5	3	104	10	1.94	< 10	< 1	0.05	< 10	0.25	208
L2+00N 02+50W	217 238	< 5	1.73	0.2	< 5	30	< 0.5	< 2	0.36	0.5	4	87	8	1.92	< 10	2	0.04	< 10	0.27	188
L2+00N 03+00W	217 238	20	2.77	0.4	25	40	< 0.5	< 2	0.41	< 0.5	6	81	19	2.78	< 10	< 1	0.07	< 10	0.40	249
L2+00N 03+50W	201 238	< 5	1.39	0.2	< 5	50	< 0.5	< 2	0.34	3.0	4	15	24	3.27	10	< 1	0.01	< 10	0.18	427
L2+00N 04+00W	201 238	< 5	4.57	0.8	< 5	180	< 0.5	< 2	0.31	3.0	18	28	61	3.64	10	2	0.14	10	0.42	2190
L2+00N 04+50W	201 238	< 5	3.84	0.2	10	190	< 0.5	< 2	0.52	1.0	12	22	33	3.08	< 10	< 1	0.24	10	0.80	700
L2+00N 05+00W	201 238	< 5	2.47	0.2	25	200	< 0.5	< 2	0.96	1.5	12	20	40	2.91	10	< 1	0.32	< 10	0.90	920
L2+00N 05+50W	203 238	< 5	2.20	0.2	< 5	70	< 0.5	< 2	0.46	< 0.5	7	81	15	2.32	< 10	< 1	0.12	< 10	0.53	457
L2+00N 06+00W	201 238	< 5	1.51	0.2	10	180	< 0.5	< 2	0.58	< 0.5	9	21	17	1.86	< 10	< 1	0.05	< 10	0.34	2430
L2+00N 06+50W	201 238	< 5	3.78	< 0.2	125	300	< 0.5	< 2	0.48	0.5	12	26	23	3.04	< 10	< 1	0.09	< 10	1.12	741
L2+00N 07+00W	201 238	< 5	3.95	0.4	125	60	< 0.5	< 2	0.25	< 0.5	10	16	21	3.50	< 10	< 1	0.07	< 10	0.56	464
L2+00N 07+50W	201 238	< 5	3.06	0.2	< 5	60	< 0.5	< 2	0.54	1.0	9	15	24	2.98	< 10	< 1	0.05	< 10	0.41	664
L2+00N 08+00W	201 238	< 5	2.04	0.4	20	70	< 0.5	< 2	1.16	0.5	9	15	41	3.94	10	< 1	0.13	< 10	0.76	634
L2+00N 08+50W	201 238	< 5	4.04	0.2	30	130	< 0.5	< 2	1.80	5.5	7	38	158	3.94	10	< 1	0.04	< 10	0.36	265
L2+00N 09+00W	201 238	< 5	3.07	0.4	100	100	< 0.5	< 2	1.62	4.5	9	42	56	6.10	10	2	0.05	< 10	0.33	755

CERTIFICATION : 



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
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PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

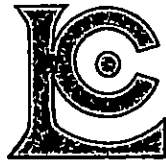
Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

Page No. : 1-B
Tot. Pages: 6
Date : 14-OCT-87
Invoice #: I-8723743
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L1+00N 00+00V	201 238	< 1	0.01	49	1170	4	< 5	< 10	31	0.25	< 10	< 10	142	< 5	241
L1+00N 00+50V	201 238	< 1	0.01	39	2580	14	5	< 10	30	0.19	< 10	< 10	117	< 5	341
L1+00N 01+00V	201 238	3	0.06	14	760	< 2	5	< 10	55	0.18	< 10	< 10	87	< 5	53
L1+00N 01+50V	203 238	< 1	0.05	9	440	< 2	< 5	< 10	29	0.17	< 10	< 10	76	< 5	49
L1+00N 02+00V	217 238	< 1	0.07	10	430	2	< 5	< 10	49	0.17	< 10	< 10	75	< 5	56
L1+00N 02+50V	203 238	< 1	0.05	6	410	< 2	< 5	< 10	36	0.16	< 10	< 10	77	< 5	41
L1+00N 03+00V	217 238	< 1	0.04	10	1930	< 2	5	< 10	63	0.14	< 10	< 10	80	< 5	93
L1+00N 03+50V	201 238	< 1	0.02	16	710	< 2	< 5	< 10	19	0.20	< 10	< 10	90	< 5	169
L1+00N 04+00V	201 238	5	0.02	28	1130	< 2	< 5	< 10	35	0.17	< 10	< 10	174	< 5	237
L1+00N 04+50V	201 238	1	0.01	20	2090	16	5	< 10	30	0.12	< 10	< 10	113	< 5	129
L1+00N 05+00V	201 238	< 1	0.01	5	3450	2	< 5	< 10	27	0.09	< 10	< 10	72	< 5	149
L1+00N 05+50V	201 238	< 1	0.01	2	810	2	< 5	< 10	21	0.16	< 10	< 10	66	< 5	75
L1+00N 06+00V	201 238	< 1	0.02	6	1330	< 2	< 5	< 10	26	0.19	< 10	< 10	74	< 5	88
L1+00N 06+50V	201 238	< 1	0.03	6	520	< 2	< 5	< 10	38	0.15	< 10	< 10	70	< 5	72
L1+00N 07+00V	201 238	< 1	0.02	7	1030	12	5	< 10	58	0.15	< 10	< 10	74	< 5	73
L1+00N 07+50V	201 238	< 1	0.03	4	1100	10	5	10	80	0.09	< 10	< 10	62	< 5	69
L1+00N 08+00V	201 238	< 1	0.04	2	1430	< 2	10	< 10	116	0.13	< 10	< 10	116	< 5	85
L1+00N 08+50V	201 238	< 1	0.02	1	600	< 2	< 5	< 10	36	0.16	< 10	< 10	121	< 5	33
L1+00N 09+00V	201 238	< 1	0.03	5	630	2	< 5	< 10	43	0.15	< 10	< 10	61	< 5	52
L1+00N 09+50V	201 238	< 1	0.02	< 1	920	< 2	5	< 10	53	0.10	< 10	< 10	66	< 5	60
L1+00N 10+00V	201 238	< 1	0.03	16	2720	10	5	20	88	0.27	< 10	< 10	95	< 5	315
L2+00N 00+00V	203 238	< 1	0.05	13	840	< 2	< 5	10	36	0.19	< 10	< 10	76	< 5	194
L2+00N 00+50V	217 238	< 1	0.05	6	460	20	5	< 10	34	0.09	< 10	< 10	54	< 5	39
L2+00N 01+00V	201 238	< 1	0.01	3	230	20	< 5	< 10	23	0.11	< 10	< 10	70	< 5	31
L2+00N 01+50V	217 238	< 1	0.05	8	830	8	< 5	< 10	40	0.14	< 10	< 10	73	< 5	58
L2+00N 02+00V	217 238	< 1	0.03	3	150	2	< 5	< 10	24	0.13	< 10	< 10	59	< 5	29
L2+00N 02+50V	217 238	< 1	0.03	4	220	14	< 5	< 10	24	0.12	< 10	< 10	62	< 5	24
L2+00N 03+00V	217 238	< 1	0.02	15	520	< 2	5	< 10	23	0.15	< 10	< 10	91	< 5	60
L2+00N 03+50V	201 238	< 1	0.01	6	580	< 2	5	< 10	26	0.17	< 10	< 10	102	< 5	86
L2+00N 04+00V	201 238	< 1	0.02	13	1980	2	< 5	< 10	27	0.16	< 10	< 10	76	< 5	239
L2+00N 04+50V	201 238	< 1	0.03	9	690	< 2	5	< 10	37	0.22	< 10	< 10	75	< 5	91
L2+00N 05+00V	201 238	< 1	0.05	17	730	< 2	5	< 10	90	0.18	< 10	< 10	85	< 5	88
L2+00N 05+50V	203 238	3	0.04	3	390	< 2	< 5	< 10	32	0.15	< 10	< 10	62	< 5	39
L2+00N 06+00V	201 238	< 1	0.02	19	2380	< 2	5	10	165	0.09	< 10	< 10	36	< 5	142
L2+00N 06+50V	201 238	< 1	0.01	29	2420	6	< 5	< 10	71	0.11	< 10	< 10	71	< 5	178
L2+00N 07+00V	201 238	< 1	0.01	8	1130	< 2	< 5	< 10	21	0.21	< 10	< 10	89	< 5	92
L2+00N 07+50V	201 238	< 1	0.02	5	1410	12	5	< 10	41	0.16	< 10	< 10	79	< 5	76
L2+00N 08+00V	201 238	< 1	0.05	5	990	4	5	< 10	86	0.17	< 10	< 10	102	< 5	64
L2+00N 08+50V	201 238	< 1	0.04	77	1060	2	5	< 10	108	0.14	< 10	< 10	77	< 5	305
L2+00N 09+00V	201 238	< 1	0.04	39	1070	< 2	< 5	< 10	99	0.14	< 10	< 10	110	< 5	350

CERTIFICATION :



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 VANCOUVER, B.C.
 V6K 3M3

Project: QUADRA

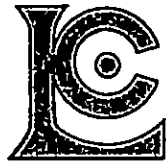
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Page No. :2-A
 Tot. Pages.6
 Date :14-OCT-87
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 P.O. # :NONE

CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L2+00N 09+50V	201 238	< 5	2.90	0.2	25	60	< 0.5	< 2	0.45	< 0.5	7	17	18	3.36	< 10	5	0.09	< 10	0.44	551
L2+00N 10+00V	201 238	< 5	3.36	0.2	< 5	40	< 0.5	< 2	0.57	< 0.5	9	13	23	3.15	< 10	< 1	0.05	10	0.42	809
L2+50N 10+00V	201 238	< 5	4.58	0.4	< 5	30	< 0.5	< 2	0.38	0.5	10	18	31	4.49	< 10	1	0.02	10	0.26	789
L3+00N 00+00V	201 238	< 5	2.99	0.4	10	140	< 0.5	< 2	0.96	2.5	22	49	59	4.32	< 10	< 1	0.02	< 10	0.30	2110
L3+00N 00+50V	201 238	< 5	0.76	0.2	< 5	70	< 0.5	< 2	0.35	0.5	5	14	8	2.37	< 10	< 1	0.02	< 10	0.23	889
L3+00N 01+00V	203 238	< 5	1.32	0.2	5	100	< 0.5	< 2	0.65	< 0.5	9	191	12	2.89	< 10	< 1	0.08	< 10	0.61	1060
L3+00N 01+50V	201 238	< 5	3.71	0.2	10	130	< 0.5	< 2	1.21	0.5	22	52	26	3.44	< 10	1	0.01	< 10	0.21	1195
L3+00N 02+00V	217 238	< 5	2.20	0.2	5	50	< 0.5	< 2	1.29	0.5	11	92	30	2.38	< 10	< 1	0.06	< 10	0.43	480
L3+00N 02+50V	217 238	< 5	1.38	0.6	10	120	< 0.5	< 2	0.93	4.5	8	81	60	1.85	< 10	< 1	0.09	< 10	0.38	1600
L3+00N 03+00V	201 238	< 5	3.32	0.2	< 5	150	< 0.5	< 2	0.57	0.5	8	20	44	2.02	< 10	1	0.11	10	0.57	232
L3+00N 03+50V	201 238	< 5	2.04	0.4	< 5	40	< 0.5	< 2	0.26	2.5	7	38	28	3.07	< 10	1	0.02	< 10	0.18	310
L3+00N 04+00V	201 238	< 5	2.51	0.4	5	120	< 0.5	< 2	0.58	2.0	9	20	25	3.08	< 10	< 1	0.09	< 10	0.54	703
L3+00N 04+50V	203 238	< 5	3.73	0.2	< 5	210	< 0.5	< 2	0.76	1.0	13	70	32	3.03	< 10	< 1	0.31	< 10	0.97	574
L3+00N 05+00V	201 238	< 5	1.92	< 0.2	170	70	< 0.5	< 2	0.43	< 0.5	6	10	21	2.18	< 10	1	0.07	< 10	0.30	321
L3+00N 05+50V	201 238	< 5	4.37	0.2	30	50	< 0.5	< 2	1.42	1.5	8	20	77	3.03	< 10	< 1	0.05	10	0.32	750
L3+00N 06+00V	201 238	< 5	2.76	< 0.2	50	80	< 0.5	< 2	0.32	< 0.5	8	10	12	2.89	< 10	< 1	0.04	< 10	0.37	1815
L3+00N 06+50V	201 238	< 5	2.62	< 0.2	5	70	< 0.5	< 2	0.39	< 0.5	8	13	24	2.92	< 10	1	0.09	< 10	0.45	569
L3+00N 07+00V	201 238	< 5	1.88	0.2	55	40	< 0.5	< 2	0.35	< 0.5	5	9	13	2.68	< 10	< 1	0.03	< 10	0.34	457
L3+00N 07+50V	201 238	< 5	2.67	0.4	5	60	< 0.5	< 2	1.47	0.5	10	14	29	2.87	< 10	< 1	0.06	< 10	0.59	813
L3+00N 08+00V	201 238	< 5	2.35	0.2	845	240	< 0.5	< 2	0.26	0.5	12	9	25	3.81	< 10	1	0.04	< 10	0.18	1530
L3+00N 08+50V	203 238	< 5	2.49	0.2	20	120	< 0.5	< 2	0.52	< 0.5	6	70	30	3.43	< 10	< 1	0.16	< 10	0.35	892
L3+00N 09+00V	201 238	< 5	1.41	< 0.2	< 5	70	< 0.5	< 2	0.34	0.5	4	9	15	2.69	< 10	< 1	0.03	< 10	0.26	405
L3+00N 09+50V	201 238	< 5	3.70	0.2	< 5	30	< 0.5	< 2	0.41	1.0	4	19	11	4.12	< 10	< 1	0.02	10	0.22	343
L3+00N 10+00V	201 238	< 5	1.83	0.4	< 5	60	< 0.5	< 2	0.40	0.5	8	20	54	4.96	10	< 1	0.02	< 10	0.15	619
L4+00N 00+00V	201 238	< 5	2.46	0.4	25	250	< 0.5	< 2	0.88	4.5	28	49	32	5.30	10	< 1	0.03	< 10	0.27	2990
L4+00N 00+50V	217 238	< 5	2.70	0.2	< 5	140	< 0.5	< 2	2.43	2.0	17	67	24	2.63	10	< 1	0.04	< 10	0.25	2320
L4+00N 01+00V	201 238	< 5	3.59	0.4	5	60	< 0.5	< 2	0.82	3.0	18	81	59	4.36	10	< 1	0.01	10	0.13	675
L4+00N 01+50V	201 238	< 5	0.85	< 0.2	< 5	30	< 0.5	< 2	0.20	< 0.5	3	10	7	2.24	< 10	< 1	0.01	< 10	0.22	185
L4+00N 02+00V	203 238	< 5	2.48	0.6	15	140	< 0.5	< 2	0.93	1.5	17	90	65	4.01	10	< 1	0.06	< 10	0.59	374
L4+00N 02+50V	217 238	< 5	0.20	< 0.2	10	70	< 0.5	< 2	0.39	0.5	< 1	24	33	0.44	< 10	1	0.03	< 10	0.04	122
L4+00N 03+00V	201 238	< 5	1.85	0.2	5	70	< 0.5	< 2	0.52	1.5	5	10	20	1.57	< 10	< 1	0.04	< 10	0.38	236
L4+00N 03+50V	201 238	< 5	1.45	< 0.2	< 5	20	< 0.5	< 2	0.18	< 0.5	2	6	6	1.04	< 10	1	0.02	< 10	0.20	143
L4+00N 04+00V	203 238	< 5	1.83	< 0.2	< 5	40	< 0.5	< 2	0.35	0.5	5	62	14	1.84	< 10	< 1	0.07	< 10	0.40	255
L4+00N 05+00V	203 238	< 5	4.81	0.4	35	90	< 0.5	< 2	0.79	1.0	10	44	32	2.86	< 10	< 1	0.04	< 10	0.45	1010
L4+00N 05+50V	201 238	< 5	2.90	0.2	35	70	< 0.5	< 2	0.78	0.5	18	11	48	3.70	< 10	1	0.01	< 10	0.24	2420
L4+00N 06+00V	201 238	< 5	2.46	0.2	5	220	< 0.5	< 2	8.68	0.5	10	25	27	1.94	< 10	< 1	0.05	< 10	0.72	2720
L4+00N 06+50V	201 238	< 5	5.51	0.2	< 5	40	< 0.5	< 2	0.33	0.5	11	14	14	3.66	< 10	< 1	0.03	< 10	0.53	463
L4+00N 07+00V	201 238	< 5	3.25	0.2	< 5	70	< 0.5	< 2	0.56	0.5	10	24	13	3.28	< 10	< 1	0.06	< 10	0.43	1360
L4+00N 07+50V	201 238	< 5	2.50	0.4	35	70	< 0.5	4	1.85	5.0	13	16	59	2.92	< 10	< 1	0.06	< 10	0.61	2460
L4+00N 08+00V	201 238	< 5	2.28	< 0.2	10	60	< 0.5	< 2	0.41	0.5	7	7	28	2.17	< 10	< 1	0.04	< 10	0.22	650

CERTIFICATION :



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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
 VANCOUVER, B.C.
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Project: QUADRA

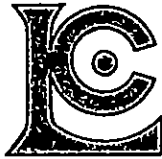
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 P.O. # : NONE

CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L2+00N 09+50W	201 238	< 1	0.02	3	520	2	< 5	< 10	38	0.18	< 10	< 10	87	< 5	44
L2+00N 10+00W	201 238	< 1	0.03	3	1000	4	5	< 10	49	0.15	< 10	< 10	79	< 5	59
L2+50N 10+00W	201 238	< 1	0.02	2	1350	< 2	< 5	< 10	32	0.15	< 10	< 10	131	< 5	39
L3+00N 00+00W	201 238	< 1	0.02	49	1580	2	5	< 10	37	0.23	< 10	< 10	130	< 5	219
L3+00N 00+50W	201 238	< 1	0.02	3	310	< 2	< 5	< 10	27	0.14	< 10	< 10	81	< 5	48
L3+00N 01+00W	203 238	< 1	0.08	10	350	2	5	< 10	41	0.19	< 10	< 10	84	< 5	70
L3+00N 01+50W	201 238	< 1	0.01	60	2240	10	5	< 10	40	0.20	< 10	< 10	165	< 5	95
L3+00N 02+00W	217 238	< 1	0.05	28	600	< 2	5	< 10	39	0.16	< 10	< 10	81	< 5	79
L3+00N 02+50W	217 238	< 1	0.03	13	710	40	5	10	50	0.14	< 10	< 10	52	< 5	114
L3+00N 03+00W	201 238	< 1	0.02	10	530	8	< 5	< 10	42	0.18	< 10	< 10	56	< 5	52
L3+00N 03+50W	201 238	< 1	0.01	23	490	10	5	< 10	20	0.19	< 10	< 10	247	< 5	248
L3+00N 04+00W	201 238	< 1	0.02	11	540	10	5	< 10	46	0.20	< 10	< 10	86	< 5	162
L3+00N 04+50W	203 238	< 1	0.05	10	320	< 2	10	< 10	56	0.24	< 10	< 10	81	< 5	73
L3+00N 05+00W	201 238	< 1	0.02	5	620	20	5	< 10	33	0.11	< 10	< 10	59	< 5	54
L3+00N 05+50W	201 238	< 1	0.03	11	860	10	< 5	< 10	83	0.15	< 10	< 10	79	< 5	63
L3+00N 06+00W	201 238	< 1	0.01	4	1790	< 2	< 5	< 10	37	0.15	< 10	< 10	68	< 5	54
L3+00N 06+50W	201 238	< 1	0.02	4	1020	10	< 5	< 10	40	0.18	< 10	< 10	72	< 5	66
L3+00N 07+00W	201 238	< 1	0.01	5	800	12	5	< 10	27	0.16	< 10	< 10	65	< 5	52
L3+00N 07+50W	201 238	< 1	0.04	8	650	6	5	< 10	90	0.18	< 10	< 10	74	< 5	69
L3+00N 08+00W	201 238	< 1	0.01	5	1690	< 2	10	< 10	26	0.02	< 10	< 10	59	< 5	78
L3+00N 08+50W	203 238	< 1	0.04	1	620	14	< 5	< 10	188	0.11	< 10	< 10	27	< 5	100
L3+00N 09+00W	201 238	< 1	0.02	1	280	12	< 5	< 10	46	0.15	< 10	< 10	80	< 5	40
L3+00N 09+50W	201 238	< 1	0.02	2	660	2	< 5	< 10	39	0.13	< 10	< 10	119	< 5	28
L3+00N 10+00W	201 238	< 1	0.01	6	360	< 2	< 5	< 10	54	0.21	< 10	< 10	150	< 5	48
L4+00N 00+00W	201 238	< 1	0.02	46	2430	14	< 5	< 10	41	0.17	< 10	< 10	109	< 5	324
L4+00N 00+50W	217 238	< 1	0.07	26	1520	6	10	< 10	100	0.22	< 10	< 10	60	< 5	108
L4+00N 01+00W	201 238	< 1	0.04	33	670	< 2	< 5	< 10	44	0.36	< 10	< 10	205	< 5	178
L4+00N 01+50W	201 238	< 1	0.01	3	120	< 2	5	< 10	17	0.12	< 10	< 10	82	< 5	32
L4+00N 02+00W	203 238	2	0.05	55	850	10	5	10	65	0.38	< 10	< 10	196	< 5	120
L4+00N 02+50W	217 238	1	0.01	9	570	44	< 5	< 10	32	0.02	< 10	< 10	16	< 5	45
L4+00N 03+00W	201 238	< 1	0.03	6	420	< 2	< 5	< 10	38	0.12	< 10	< 10	46	< 5	51
L4+00N 03+50W	201 238	< 1	0.01	2	220	< 2	< 5	< 10	18	0.07	< 10	< 10	28	< 5	27
L4+00N 04+00W	203 238	< 1	0.03	10	370	10	< 5	< 10	25	0.13	< 10	< 10	44	< 5	36
L4+00N 05+00W	203 238	2	0.02	31	1780	12	< 5	< 10	107	0.11	< 10	< 10	53	< 5	125
L4+00N 05+50W	201 238	12	0.04	79	1670	< 2	5	< 10	66	0.08	< 10	< 10	63	< 5	140
L4+00N 06+00W	201 238	< 1	0.04	23	3150	12	15	10	483	0.06	< 10	< 10	41	< 5	104
L4+00N 06+50W	201 238	< 1	0.02	2	1930	< 2	< 5	< 10	28	0.21	< 10	< 10	80	< 5	62
L4+00N 07+00W	201 238	< 1	0.02	17	2330	< 2	5	< 10	61	0.13	< 10	< 10	90	< 5	119
L4+00N 07+50W	201 238	2	0.04	25	1010	10	< 5	10	100	0.18	< 10	< 10	67	< 5	158
L4+00N 08+00W	201 238	1	0.02	6	960	14	< 5	< 10	37	0.11	< 10	< 10	53	< 5	81

CERTIFICATION :



Chemex Labs Ltd.

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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
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 V6K 3M3

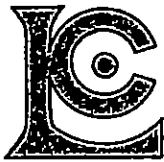
Project: QUADRA
 Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

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 Tot. Pages: 6
 Date: 14-OCT-87
 Invoice #: I-8723743
 P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L4+OON 08+50W	201 238	< 5	2.98	< 0.2	15	50	< 0.5	2	0.46	< 0.5	9	14	30	2.95	< 10	< 1	0.05	< 10	0.48	487
L4+OON 09+00W	201 238	< 5	2.84	0.2	20	240	< 0.5	4	0.96	< 0.5	14	18	28	2.65	< 10	< 1	0.13	< 10	0.98	3720
L4+OON 09+50W	201 238	< 5	3.97	< 0.2	5	80	< 0.5	2	0.46	< 0.5	12	17	20	3.55	< 10	< 1	0.09	< 10	0.57	665
L4+OON 10+00W	201 238	< 5	2.76	< 0.2	< 5	30	< 0.5	< 2	0.46	< 0.5	6	14	18	3.48	< 10	< 1	0.04	< 10	0.19	133
L4+OON 04+50W	201 238	< 5	1.28	0.2	90	50	< 0.5	2	0.36	< 0.5	6	10	13	2.05	< 10	< 1	0.07	< 10	0.33	228
L4+OON 10+00W	201 238	5	3.11	< 0.2	5	30	< 0.5	< 2	0.34	< 0.5	5	9	14	2.95	< 10	< 1	0.03	< 10	0.16	222
L5+OON 00+00W	201 238	5	0.90	< 0.2	< 5	90	< 0.5	< 2	0.43	< 0.5	7	9	17	2.05	< 10	1	0.08	< 10	0.30	756
L5+OON 00+50W	201 238	< 5	1.91	< 0.2	10	100	0.5	< 2	0.84	2.0	20	49	16	4.56	< 10	< 1	0.01	< 10	0.16	1275
L5+OON 01+00W	201 238	20	1.91	0.2	5	50	< 0.5	< 2	0.52	1.0	8	11	13	2.21	< 10	< 1	0.05	< 10	0.38	731
L5+OON 01+50W	201 238	5	2.19	< 0.2	5	60	< 0.5	2	0.42	< 0.5	8	12	12	2.44	< 10	< 1	0.04	< 10	0.40	716
L5+OON 02+00W	201 238	< 5	2.96	0.4	15	120	0.5	2	1.15	19.0	18	30	100	2.91	< 10	< 1	0.06	< 10	0.40	4590
L5+OON 02+50W	201 238	< 5	1.43	< 0.2	< 5	70	< 0.5	2	0.61	3.0	12	17	32	2.99	< 10	< 1	0.05	< 10	0.31	875
L5+OON 03+00W	201 238	15	1.18	< 0.2	< 5	60	< 0.5	< 2	1.15	16.5	4	6	29	0.61	< 10	< 1	0.03	< 10	0.13	150
L5+OON 03+50W	201 238	5	3.30	0.4	35	140	< 0.5	< 2	1.42	19.3	10	29	57	2.46	< 10	< 1	0.06	< 10	0.56	282
L5+OON 04+00W	201 238	< 5	1.32	0.4	235	50	< 0.5	2	0.89	1.0	6	6	18	1.52	< 10	< 1	0.02	< 10	0.23	294
L5+OON 04+50W	201 238	< 5	0.45	0.2	>10000	50	< 0.5	4	4.82	1.5	18	35	55	5.36	< 10	20	< 0.01	< 10	0.11	660
L5+OON 05+00W	201 238	< 5	1.12	0.2	60	60	< 0.5	< 2	0.32	< 0.5	5	8	7	2.38	< 10	< 1	0.05	< 10	0.19	245
L5+OON 05+50W	201 238	< 5	2.27	0.2	40	30	0.5	2	0.31	< 0.5	13	35	25	2.49	< 10	< 1	0.02	< 10	0.62	794
L5+OON 06+00W	201 238	15	2.70	< 0.2	15	60	0.5	2	0.88	< 0.5	46	57	90	7.68	< 10	< 1	0.02	< 10	0.25	1510
L5+OON 06+50W	201 238	< 5	4.00	< 0.2	< 5	60	0.5	4	0.50	< 0.5	12	13	24	3.45	< 10	< 1	0.09	< 10	0.64	516
L5+OON 07+00W	201 238	< 5	3.16	< 0.2	10	140	0.5	2	0.64	< 0.5	13	15	29	3.43	< 10	< 1	0.13	< 10	0.74	1095
L5+OON 07+50W	201 238	5	2.26	< 0.2	< 5	80	< 0.5	< 2	1.67	0.5	7	12	22	2.20	< 10	< 1	0.09	< 10	0.51	987
L5+OON 08+00W	201 238	15	2.16	0.2	35	80	0.5	2	0.50	0.5	13	13	57	3.24	< 10	< 1	0.07	< 10	0.41	751
L5+OON 08+50W	201 238	15	2.77	< 0.2	15	120	0.5	2	1.27	0.5	16	8	21	3.98	< 10	< 1	0.05	< 10	0.74	3510
L5+OON 09+00W	201 238	5	3.15	< 0.2	20	40	0.5	2	0.25	< 0.5	10	12	17	3.54	< 10	< 1	0.03	< 10	0.39	774
L5+OON 09+50W	201 238	< 5	2.64	< 0.2	45	40	0.5	2	1.26	2.5	11	15	46	4.59	< 10	< 1	0.05	< 10	0.59	875
L5+OON 10+00W	201 238	< 5	2.85	< 0.2	10	30	0.5	4	1.12	< 0.5	5	9	16	3.29	< 10	< 1	0.02	< 10	0.15	291
L6+OON 00+00W	201 238	10	3.31	0.2	< 5	120	0.5	2	0.47	0.5	14	23	43	3.18	< 10	< 1	0.10	< 10	0.65	838
L6+OON 00+50W	201 238	< 5	2.65	0.2	< 5	60	0.5	< 2	0.57	2.5	9	14	32	2.69	< 10	< 1	0.04	< 10	0.28	679
L6+OON 01+00W	203 238	10	3.60	0.2	5	60	0.5	< 2	0.63	0.5	11	51	12	3.18	< 10	< 1	0.08	< 10	0.48	546
L6+OON 01+50W	201 238	< 5	2.21	< 0.2	< 5	70	0.5	2	0.43	0.5	12	16	10	2.90	< 10	< 1	0.05	< 10	0.42	1910
L6+OON 10+00W	201 238	< 5	4.31	0.6	15	70	1.0	2	1.04	4.0	20	55	55	4.23	< 10	< 1	0.01	< 10	0.13	799
L6+OON 02+50W	203 238	< 5	2.06	< 0.2	< 5	120	< 0.5	< 2	0.65	1.0	11	93	21	3.16	< 10	< 1	0.09	< 10	0.56	1155
L6+OON 03+00W	201 238	5	1.16	< 0.2	< 5	40	< 0.5	2	0.28	1.0	4	8	12	1.35	< 10	< 1	0.02	< 10	0.20	138
L6+OON 03+50W	217 238	< 5	0.66	< 0.2	20	20	< 0.5	< 2	1.74	48.0	4	14	24	0.91	< 10	< 1	0.01	< 10	0.09	215
L6+OON 04+00W	201 238	< 5	1.11	0.2	20	20	0.5	2	0.25	1.0	6	66	10	3.28	< 10	< 1	0.01	< 10	0.11	116
L6+OON 04+50W	201 238	< 5	3.43	0.2	30	110	1.0	< 2	1.18	2.5	14	26	62	3.93	< 10	< 1	0.10	< 10	0.63	697
L6+OON 05+00W	201 238	< 5	3.00	0.2	5	270	1.0	2	0.52	0.5	13	31	39	2.81	< 10	< 1	0.04	< 10	0.38	177
L6+OON 05+50W	201 238	< 5	4.02	< 0.2	5	40	1.0	2	0.53	0.5	16	35	44	3.31	< 10	< 1	0.02	< 10	0.68	239
L6+OON 06+00W	201 238	< 5	2.95	< 0.2	< 5	70	0.5	< 2	0.33	< 0.5	11	10	12	3.30	< 10	< 1	0.04	< 10	0.40	843

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 VANCOUVER, B.C.
 V6K 3M3

Project: QUADRA

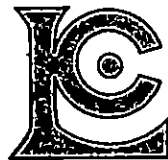
Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

Page No.: 3-B
 Tot. Pages: 6
 Date: 14-OCT-87
 Invoice #: I-8723743
 P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L4+OON 08+50W	201 238	< 1	0.02	12	960	< 2	< 5	< 10	40	0.11	< 10	< 10	72	< 5	44
L4+OON 09+00W	201 238	4	0.04	36	3870	8	< 5	10	127	0.09	< 10	< 10	70	< 5	181
L4+OON 09+50W	201 238	3	0.03	9	600	< 2	< 5	10	39	0.23	< 10	< 10	79	< 5	67
L4+OON 10+00W	201 238	4	0.01	9	300	4	< 5	< 10	36	0.23	< 10	< 10	81	< 5	23
L4+OON 04+50W	201 238	1	0.02	6	470	22	< 5	< 10	26	0.14	< 10	< 10	56	< 5	51
L4+OON 10+00W	201 238	< 1	0.02	3	420	< 2	< 5	< 10	31	0.14	< 10	< 10	73	< 5	24
L5+OON 00+00W	201 238	< 1	0.02	6	510	18	< 5	< 10	33	0.14	< 10	< 10	60	< 5	94
L5+OON 00+50W	201 238	3	0.04	34	670	4	< 5	10	48	0.31	< 10	< 10	165	< 5	242
L5+OON 01+00W	201 238	1	0.03	17	730	16	< 5	10	32	0.11	< 10	< 10	57	< 5	79
L5+OON 01+50W	201 238	< 1	0.03	7	1140	12	< 5	< 10	31	0.11	< 10	< 10	61	< 5	79
L5+OON 02+00W	201 238	4	0.03	42	1270	16	< 5	10	62	0.12	< 10	< 10	88	< 5	369
L5+OON 02+50W	201 238	< 1	0.02	25	680	24	< 5	< 10	39	0.13	< 10	< 10	91	< 5	167
L5+OON 03+00W	201 238	1	0.02	7	570	20	< 5	10	53	0.04	< 10	< 10	19	< 5	27
L5+OON 03+50W	201 238	3	0.04	79	970	12	5	20	104	0.15	< 10	10	163	< 5	541
L5+OON 04+00W	201 238	2	0.02	7	520	18	10	< 10	63	0.09	< 10	< 10	33	< 5	58
L5+OON 04+50W	201 238	11	< 0.01	77	1730	10	1395	20	347	< 0.01	< 10	< 10	261	< 5	203
L5+OON 05+00W	201 238	1	0.01	3	1100	6	5	< 10	31	0.12	< 10	< 10	70	< 5	56
L5+OON 05+50W	201 238	9	0.01	97	1380	14	< 5	10	23	0.12	< 10	< 10	121	< 5	49
L5+OON 06+00W	201 238	< 1	0.02	106	4360	16	< 5	< 10	74	0.08	< 10	< 10	42	< 5	98
L5+OON 06+50W	201 238	< 1	0.02	8	2800	2	< 5	10	46	0.17	< 10	< 10	76	< 5	76
L5+OON 07+00W	201 238	< 1	0.03	8	980	6	5	10	52	0.22	< 10	< 10	80	< 5	80
L5+OON 07+50W	201 238	< 1	0.03	6	1140	8	< 5	< 10	93	0.11	< 10	< 10	54	< 5	82
L5+OON 08+00W	201 238	9	0.02	38	790	22	< 5	10	105	0.14	< 10	< 10	111	< 5	114
L5+OON 08+50W	201 238	< 1	0.02	7	1480	30	< 5	10	94	0.14	< 10	< 10	64	< 5	259
L5+OON 09+00W	201 238	3	0.01	8	1030	10	< 5	< 10	25	0.16	< 10	< 10	84	< 5	56
L5+OON 09+50W	201 238	3	0.05	27	1060	< 2	< 5	10	80	0.10	< 10	< 10	100	< 5	100
L5+OON 10+00W	201 238	2	0.02	2	780	2	< 5	< 10	75	0.09	< 10	< 10	81	< 5	17
L6+OON 00+00W	201 238	< 1	0.03	22	760	6	< 5	10	27	0.18	< 10	< 10	78	< 5	101
L6+OON 00+50W	201 238	< 1	0.03	21	620	8	< 5	10	40	0.13	< 10	< 10	70	< 5	103
L6+OON 01+00W	203 238	1	0.07	8	780	< 2	< 5	10	49	0.16	< 10	< 10	79	< 5	111
L6+OON 01+50W	201 238	< 1	0.03	7	730	4	< 5	< 10	32	0.14	< 10	< 10	77	< 5	158
L6+OON 02+00W	201 238	2	0.03	46	1200	< 2	5	20	47	0.21	< 10	< 10	173	< 5	277
L6+OON 02+50W	203 238	1	0.07	7	890	16	< 5	< 10	41	0.19	< 10	< 10	87	< 5	121
L6+OON 03+00W	201 238	2	0.01	5	230	12	< 5	< 10	24	0.11	< 10	< 10	42	< 5	36
L6+OON 03+50W	217 238	3	0.02	36	1200	2	< 5	30	87	0.02	< 10	< 10	104	< 5	335
L6+OON 04+00W	201 238	7	< 0.01	65	500	10	< 5	< 10	14	0.18	< 10	< 10	686	< 5	416
L6+OON 04+50W	201 238	6	0.04	49	580	< 2	5	< 10	71	0.23	< 10	< 10	89	< 5	157
L6+OON 05+00W	201 238	10	0.02	133	830	< 2	< 5	10	73	0.11	< 10	< 10	137	< 5	83
L6+OON 05+50W	201 238	6	0.03	91	1390	18	< 5	< 10	103	0.14	< 10	< 10	107	< 5	103
L6+OON 06+00W	201 238	< 1	0.02	5	1210	2	< 5	< 10	32	0.18	< 10	< 10	76	< 5	87

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To : ARCITEK ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project : QUADRA

Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

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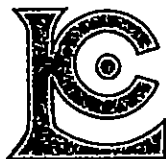
Invoice # : I-8723743

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CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA-AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L6+00N 06+50W	201 238	< 5	4.48	< 0.2	5	450	< 0.5	2	0.31	0.5	13	17	35	3.95	< 10	< 1	0.08	< 10	0.72	483
L6+00N 07+00W	201 238	< 5	2.93	< 0.2	< 5	90	< 0.5	2	0.63	0.5	10	11	20	3.17	< 10	< 1	0.10	< 10	0.43	714
L6+00N 07+50W	201 238	< 5	3.55	0.2	5	70	< 0.5	2	1.99	1.5	8	14	46	2.98	< 10	< 1	0.05	< 10	0.30	430
L6+00N 08+00W	201 238	< 5	2.45	< 0.2	5	60	< 0.5	< 2	0.26	< 0.5	10	11	13	3.66	< 10	< 1	0.06	< 10	0.45	475
L6+00N 08+50W	201 238	< 5	1.87	< 0.2	10	60	< 0.5	< 2	0.31	< 0.5	15	4	10	4.38	< 10	< 1	0.07	< 10	0.64	2010
L6+00N 09+00W	201 238	< 5	3.92	0.2	5	90	< 0.5	< 2	0.98	1.0	14	11	38	3.59	< 10	< 1	0.06	< 10	0.71	3210
L6+00N 09+50W	201 238	< 5	3.65	0.4	90	70	< 0.5	< 2	1.40	4.0	16	23	50	3.74	< 10	< 1	0.06	< 10	0.66	481
L6+00N 10+00W	201 238	< 5	2.76	< 0.2	30	60	< 0.5	2	0.57	1.0	11	15	34	3.25	< 10	< 1	0.06	< 10	0.58	570
L6+50N 10+00W	201 238	< 5	1.81	< 0.2	15	180	< 0.5	2	5.66	1.0	8	15	18	1.70	< 10	1	0.09	< 10	0.57	2380
L7+00N 00+00W	201 238	< 5	1.51	< 0.2	< 5	70	< 0.5	< 2	0.45	0.5	10	16	11	2.72	< 10	< 1	0.05	< 10	0.32	628
L7+00N 00+50W	201 238	< 5	1.64	0.2	50	30	< 0.5	< 2	0.68	3.5	7	11	49	2.59	< 10	< 1	0.02	< 10	0.14	602
L7+00N 01+00W	201 238	< 5	2.77	0.4	< 5	40	< 0.5	2	1.20	2.0	9	13	42	2.52	< 10	< 1	0.03	< 10	0.38	973
L7+00N 01+50W	201 238	< 5	3.91	0.4	10	50	< 0.5	2	1.12	2.0	17	68	44	4.15	< 10	< 1	0.01	< 10	0.06	373
L7+00N 02+00W	203 238	< 5	0.10	< 0.2	5	< 10	< 0.5	< 2	0.73	1.0	1	6	3	0.10	< 10	1	0.02	< 10	0.07	18
L7+00N 03+00W	201 238	< 5	1.40	0.8	35	30	< 0.5	2	2.04	18.0	5	41	69	1.16	< 10	< 1	0.02	< 10	0.17	184
L7+00N 03+50W	203 238	< 5	2.80	< 0.2	45	50	< 0.5	2	0.49	< 0.5	9	93	16	3.41	< 10	< 1	0.05	< 10	0.44	518
L7+00N 04+00W	201 238	< 5	3.99	< 0.2	5	100	< 0.5	2	0.28	0.5	11	21	19	3.31	< 10	< 1	0.05	< 10	0.39	488
L7+00N 04+50W	201 238	< 5	2.33	0.2	10	250	< 0.5	< 2	0.97	1.0	11	36	41	2.45	< 10	< 1	0.14	10	0.68	1435
L7+00N 05+00W	201 238	< 5	2.78	0.2	5	230	< 0.5	2	0.85	1.5	12	37	36	3.06	< 10	< 1	0.11	10	0.67	972
L7+00N 05+50W	201 238	< 5	2.86	0.2	15	4680	< 0.5	2	0.81	1.0	14	22	23	2.60	< 10	< 1	0.07	< 10	0.54	950
L7+00N 06+00W	201 238	< 5	3.30	< 0.2	15	110	< 0.5	2	1.25	0.5	31	28	39	3.27	< 10	1	0.02	< 10	0.31	2620
L7+00N 06+50W	201 238	< 5	1.19	< 0.2	5	70	< 0.5	< 2	0.34	< 0.5	6	7	10	2.44	< 10	< 1	0.03	< 10	0.18	613
L7+00N 07+00W	201 238	< 5	3.20	< 0.2	< 5	60	< 0.5	2	1.41	0.5	24	31	45	5.56	< 10	< 1	0.14	< 10	2.05	757
L7+00N 07+50W	201 238	< 5	3.34	< 0.2	< 5	50	< 0.5	2	0.34	0.5	6	8	17	2.89	< 10	< 1	0.03	< 10	0.26	674
L7+00N 08+00W	201 238	< 5	5.91	0.2	20	40	< 0.5	2	0.30	< 0.5	14	13	34	4.35	< 10	< 1	0.05	< 10	0.80	639
L7+00N 08+50W	201 238	10	3.78	0.2	225	50	< 0.5	< 2	0.44	1.0	31	31	110	4.23	< 10	5	0.07	10	1.14	1280
L7+00N 09+00W	201 238	< 5	1.86	0.2	20	180	< 0.5	< 2	1.25	0.5	9	26	17	1.68	< 10	< 1	0.07	< 10	0.61	1300
L7+00N 09+50W	201 238	< 5	3.79	0.2	130	90	< 0.5	2	1.46	17.0	15	16	43	3.27	< 10	< 1	0.07	< 10	0.61	1980
L7+00N 10+00W	201 238	< 5	3.79	< 0.2	25	250	< 0.5	< 2	1.52	1.0	11	20	25	3.73	< 10	< 1	0.08	< 10	0.70	5920
L8+00N 00+00W	201 238	< 5	3.36	< 0.2	< 5	40	< 0.5	< 2	0.54	0.5	18	54	36	4.41	< 10	< 1	0.01	< 10	0.27	211
L8+00N 00+50W	201 238	< 5	3.35	< 0.2	5	50	< 0.5	< 2	0.34	1.0	9	19	16	3.75	< 10	< 1	0.02	< 10	0.22	351
L8+00N 01+00W	201 238	< 5	3.31	0.6	35	150	< 0.5	2	1.13	16.5	13	21	93	2.21	< 10	< 1	0.08	10	0.43	2460
L8+00N 01+50W	201 238	< 5	3.21	0.2	< 5	70	< 0.5	2	0.36	1.0	10	23	26	2.79	< 10	< 1	0.08	< 10	0.42	254
L8+00N 02+00W	203 238	< 20	0.13	< 0.2	5	10	< 0.5	< 2	2.06	3.5	2	4	6	0.17	< 10	< 1	0.01	< 10	0.06	83
L8+00N 02+50W	203 238	< 10	0.35	< 0.2	< 5	10	< 0.5	< 2	2.41	46.0	< 1	12	22	0.26	< 10	< 1	< 0.01	< 10	0.04	72
L8+00N 03+00W	203 238	< 5	1.02	0.2	30	50	< 0.5	< 2	2.74	44.0	4	33	30	1.36	< 10	2	0.02	< 10	0.16	679
L8+00N 04+00W	201 238	< 5	1.77	0.2	35	70	< 0.5	< 2	0.43	1.5	9	51	27	2.37	< 10	2	0.01	10	0.13	697
L8+00N 04+50W	201 238	< 5	2.69	0.2	< 5	60	< 0.5	< 2	0.32	0.5	8	12	10	2.63	10	< 1	0.03	< 10	0.28	617
L8+00N 05+00W	201 238	< 5	5.78	0.6	40	70	< 0.5	< 2	0.78	0.5	22	41	73	5.49	10	< 1	0.03	10	0.64	419
L8+00N 05+00W A	201 238	< 5	3.85	0.4	45	40	< 0.5	< 2	0.37	1.0	10	24	44	3.56	10	1	0.03	< 10	0.43	263

CERTIFICATION :



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 PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
 VANCOUVER, B.C.
 V6K 3M3

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Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

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SAMPLE DESCRIPTION	PREP CODE	Mb 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
L6+00N 06+50W	201 238	1	0.02	14	1760	8	< 5	10	41	0.18	< 10	< 10	87	< 5	106
L6+00N 07+00W	201 238	< 1	0.02	5	760	6	< 5	10	46	0.18	< 10	< 10	73	< 5	115
L6+00N 07+50W	201 238	< 1	0.03	9	1060	4	< 5	< 10	110	0.11	< 10	< 10	67	< 5	55
L6+00N 08+00W	201 238	1	0.02	6	1150	8	< 5	< 10	24	0.23	< 10	< 10	88	< 5	81
L6+00N 08+50W	201 238	2	0.02	3	780	< 2	< 5	10	24	0.27	< 10	< 10	81	< 5	61
L6+00N 09+00W	201 238	3	0.04	7	880	2	< 5	10	55	0.20	< 10	< 10	81	< 5	66
L6+00N 09+50W	201 238	2	0.05	60	1600	4	< 5	20	83	0.17	< 10	< 10	66	< 5	188
L6+00N 10+00W	201 238	< 1	0.03	19	350	6	< 5	< 10	56	0.20	< 10	< 10	76	< 5	62
L6+50N 10+00W	201 238	< 1	0.02	16	1680	6	< 5	10	428	0.06	< 10	< 10	16	< 5	109
L7+00N 00+00W	201 238	< 1	0.01	5	440	10	< 5	10	32	0.20	< 10	< 10	81	< 5	134
L7+00N 00+50W	201 238	< 1	0.02	20	430	< 2	< 5	< 10	39	0.10	< 10	< 10	56	< 5	58
L7+00N 01+00W	201 238	1	0.05	8	1340	6	< 5	10	66	0.08	< 10	< 10	61	< 5	112
L7+00N 01+50W	201 238	3	0.07	25	620	4	< 5	20	70	0.35	< 10	< 10	167	< 5	140
L7+00N 02+00W	203 238	< 1	0.03	3	380	32	< 5	< 10	37	< 0.01	< 10	< 10	6	< 5	129
L7+00N 03+00W	201 238	2	0.02	174	480	12	< 5	10	100	0.08	< 10	< 10	87	< 5	796
L7+00N 03+50W	203 238	< 1	0.04	12	1010	< 2	< 5	10	38	0.16	< 10	< 10	113	< 5	115
L7+00N 04+00W	201 238	6	0.01	36	1780	4	< 5	< 10	27	0.15	< 10	< 10	111	< 5	122
L7+00N 04+50W	201 238	6	0.03	119	1520	18	< 5	< 10	100	0.12	< 10	< 10	139	< 5	97
L7+00N 05+00W	201 238	6	0.02	111	1260	12	< 5	< 10	74	0.16	< 10	< 10	152	< 5	93
L7+00N 05+50W	201 238	7	0.03	78	2400	4	< 5	< 10	125	0.09	< 10	< 10	118	< 5	113
L7+00N 06+00W	201 238	4	0.04	42	3770	10	< 5	10	164	0.09	< 10	< 10	54	< 5	131
L7+00N 06+50W	201 238	< 1	0.01	3	480	6	< 5	< 10	34	0.15	< 10	< 10	65	< 5	34
L7+00N 07+00W	201 238	< 1	0.03	16	1900	< 2	< 5	< 10	85	0.28	< 10	< 10	156	< 5	89
L7+00N 07+50W	201 238	1	0.02	4	940	6	< 5	< 10	34	0.12	< 10	< 10	63	< 5	45
L7+00N 08+00W	201 238	< 1	0.02	19	1540	4	< 5	10	22	0.24	< 10	< 10	88	< 5	95
L7+00N 08+50W	201 238	14	0.01	132	1480	< 2	< 5	< 10	60	0.08	< 10	< 10	228	< 5	138
L7+00N 09+00W	201 238	6	0.03	77	1950	14	< 5	< 10	133	0.07	< 10	< 10	163	< 5	165
L7+00N 09+50W	201 238	2	0.05	34	920	8	< 5	10	96	0.18	< 10	< 10	73	< 5	170
L7+00N 10+00W	201 238	3	0.04	24	5860	12	< 5	20	828	0.09	< 10	< 10	32	< 5	349
L8+00N 00+00W	201 238	1	0.01	46	500	2	< 5	10	24	0.24	< 10	< 10	93	< 5	120
L8+00N 00+50W	201 238	2	0.02	10	440	2	< 5	10	21	0.19	< 10	< 10	115	< 5	108
L8+00N 01+00W	201 238	< 1	0.03	79	1400	8	< 5	10	63	0.09	< 10	< 10	41	< 5	212
L8+00N 01+50W	201 238	3	0.02	34	260	< 2	< 5	< 10	25	0.21	< 10	< 10	83	< 5	85
L8+00N 02+00W	203 238	11	0.03	8	390	2	< 5	50	92	< 0.01	< 10	< 10	46	< 5	142
L8+00N 02+50W	203 238	8	0.01	24	870	2	10	60	119	0.01	< 10	< 10	40	< 5	313
L8+00N 03+00W	203 238	2	0.04	50	1460	12	< 5	40	157	0.04	< 10	< 10	127	< 5	494
L8+00N 04+00W	201 238	13	0.01	120	1830	4	< 5	< 10	130	0.11	< 10	< 10	287	< 5	143
L8+00N 04+50W	201 238	< 1	0.01	6	2320	< 2	< 5	< 10	39	0.14	< 10	< 10	76	< 5	101
L8+00N 05+00W	201 238	41	0.05	265	1190	6	10	10	126	0.17	< 10	< 10	133	< 5	154
L8+00N 05+00W A	201 238	6	0.02	21	410	< 2	< 5	< 10	34	0.20	< 10	< 10	140	< 5	83

CERTIFICATION :



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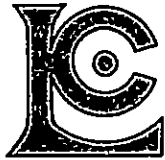
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 Tot. Pages: 6
 Date: 14-OCT-87
 Invoice #: I-8723743
 P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L8+OON 05+50W	201 238	< 5	2.49	0.4	20	140	< 0.5	2	0.41	< 0.5	14	31	26	2.91	< 10	< 1	0.03	< 10	0.64	583
L8+OON 06+00W	201 238	< 5	1.97	0.2	5	60	< 0.5	< 2	0.34	< 0.5	8	6	11	2.98	< 10	1	0.03	< 10	0.33	897
L8+OON 06+50W	201 238	< 5	5.26	0.4	15	50	< 0.5	< 2	0.32	< 0.5	11	11	18	3.55	< 10	< 1	0.04	< 10	0.50	437
L8+OON 07+00W	201 238	< 5	2.69	< 0.2	5	60	< 0.5	< 2	1.30	1.0	6	12	29	2.83	< 10	< 1	0.05	< 10	0.46	928
L8+OON 07+50W	201 238	< 5	4.57	< 0.2	< 5	40	< 0.5	< 2	0.23	1.0	8	15	29	4.26	< 10	< 1	0.03	< 10	0.48	403
L8+OON 08+00W	201 238	470	2.30	< 0.2	55	60	< 0.5	< 2	0.26	< 0.5	7	2	17	3.26	< 10	2	0.06	< 10	0.25	1960
L8+OON 08+50W	201 238	< 5	1.14	< 0.2	< 5	340	< 0.5	< 2	0.46	1.0	6	27	20	1.33	< 10	< 1	0.04	< 10	0.38	1120
L8+OON 09+00W	201 238	5	2.48	< 0.2	20	50	< 0.5	< 2	0.32	0.5	7	17	31	2.83	< 10	< 1	0.06	< 10	0.50	301
L8+OON 09+50W	201 238	< 5	2.66	< 0.2	< 5	80	< 0.5	< 2	0.46	< 0.5	5	8	16	3.00	< 10	< 1	0.05	< 10	0.36	361
L8+OON 10+00W	201 238	< 5	2.13	< 0.2	< 5	30	< 0.5	< 2	0.44	1.0	8	10	122	5.42	< 10	2	0.03	< 10	0.23	273
L8+5ON 10+00W	201 238	20	1.72	< 0.2	10	70	< 0.5	< 2	0.56	0.5	12	9	191	3.00	< 10	< 1	0.02	< 10	0.14	612
L9+OON 00+00W	201 238	< 5	2.03	< 0.2	< 5	30	< 0.5	< 2	0.32	1.0	4	25	9	5.19	< 10	< 1	0.01	< 10	0.20	312
L9+OON 00+50W	201 238	< 5	2.10	< 0.2	< 5	20	< 0.5	< 2	0.35	0.5	2	7	10	2.26	< 10	< 1	0.01	< 10	0.18	173
L9+OON 01+00W	217 238	< 5	1.67	0.2	20	60	< 0.5	< 2	1.40	36.0	7	43	46	1.93	< 10	< 1	0.03	< 10	0.21	1750
L9+OON 01+50W	217 238	< 5	0.15	0.2	< 5	10	< 0.5	< 2	3.84	31.5	2	11	17	0.51	< 10	< 1	< 0.01	< 10	0.11	156
L9+OON 02+00W	217 238	< 5	0.41	< 0.2	25	50	< 0.5	< 2	1.96	28.0	2	20	16	1.79	< 10	1	0.01	< 10	0.06	761
L9+OON 03+00W	217 238	< 5	0.45	0.2	65	100	< 0.5	< 2	4.09	73.0	5	14	22	2.28	< 10	< 1	< 0.01	< 10	0.07	4240
L9+OON 03+50W	201 238	< 5	3.39	0.4	< 5	30	< 0.5	< 2	0.30	3.0	5	101	20	4.72	< 10	5	0.01	< 10	0.20	174
L9+OON 04+00W	201 238	< 5	2.16	< 0.2	< 5	70	< 0.5	< 2	0.34	0.5	7	17	29	3.10	< 10	< 1	0.04	< 10	0.29	691
L9+OON 04+50W	201 238	15	4.66	0.2	< 5	10	< 0.5	< 2	1.05	1.5	17	31	97	4.95	< 10	< 1	0.02	< 10	0.13	195
L9+OON 05+00W	201 238	< 5	2.08	0.2	< 5	90	< 0.5	< 2	0.30	0.5	8	10	20	2.79	< 10	< 1	0.03	< 10	0.30	970
L9+OON 05+50W	201 238	< 5	3.99	< 0.2	< 5	30	< 0.5	< 2	0.26	0.5	13	36	85	3.45	< 10	< 1	0.02	< 10	0.29	202
L9+OON 06+00W	201 238	< 5	3.72	< 0.2	< 5	40	< 0.5	< 2	0.68	1.0	14	12	37	2.79	< 10	< 1	0.02	< 10	0.29	359
L9+OON 06+50W	201 238	< 5	2.40	< 0.2	15	110	< 0.5	< 2	0.34	0.5	11	12	26	3.61	< 10	< 1	0.02	< 10	0.34	1685
L9+OON 07+00W	201 238	< 5	2.40	< 0.2	< 5	50	< 0.5	< 2	0.35	< 0.5	6	10	15	3.39	< 10	< 1	0.03	< 10	0.36	634
L9+OON 07+50W	201 238	20	3.81	0.2	5	70	< 0.5	< 2	0.77	1.0	11	17	39	5.30	< 10	1	0.04	< 10	0.65	1405
L9+OON 08+00W	201 238	10	3.72	< 0.2	5	60	< 0.5	< 2	0.39	0.5	10	12	31	3.65	< 10	< 1	0.05	< 10	0.43	981
L9+OON 08+50W	201 238	< 5	4.68	0.2	20	200	< 0.5	< 2	0.64	1.5	21	12	164	5.91	< 10	< 1	0.25	< 10	1.19	1410
L9+OON 09+00W	201 238	10	2.19	< 0.2	60	50	< 0.5	< 2	0.29	< 0.5	5	14	22	3.21	< 10	1	0.04	< 10	0.34	362
L9+OON 09+50W	203 238	10	1.90	0.4	< 5	50	< 0.5	< 2	1.55	3.0	11	60	47	3.01	< 10	1	0.04	< 10	0.66	1735
L9+OON 10+00W	201 238	< 5	2.96	< 0.2	< 5	20	< 0.5	< 2	0.23	0.5	1	10	74	3.89	< 10	1	0.01	< 10	0.11	130
L9+14N 05+00W	201 238	< 5	5.22	0.2	5	80	< 0.5	< 2	0.40	1.0	12	21	34	4.39	< 10	< 1	0.04	< 10	0.45	893
L10+OON 00+00W	203 238	< 5	2.49	< 0.2	< 5	30	< 0.5	< 2	0.36	0.5	5	52	8	1.84	< 10	< 1	0.02	< 10	0.28	346
L10+OON 00+50W	201 238	< 5	4.86	0.2	< 5	50	< 0.5	< 2	0.57	3.0	9	25	22	3.03	< 10	< 1	0.02	< 10	0.31	1345
L10+OON 01+00W	201 238	< 5	3.08	0.2	< 5	60	< 0.5	< 2	1.54	2.0	24	54	86	5.90	< 10	< 1	< 0.01	< 10	0.05	432
L10+OON 01+50W	201 238	< 5	1.60	0.2	< 5	60	< 0.5	< 2	1.12	3.5	14	79	17	4.47	< 10	< 1	< 0.01	< 10	0.10	556
L10+OON 02+00W	201 238	< 5	3.41	0.4	< 5	80	< 0.5	< 2	0.94	4.0	22	68	52	4.45	< 10	< 1	< 0.01	< 10	0.12	506
L10+OON 02+50W	203 238	5	1.56	0.4	10	60	< 0.5	< 2	2.39	32.5	4	44	44	1.56	< 10	2	0.03	< 10	0.27	209
L10+OON 03+00W	201 238	< 5	1.41	0.2	45	90	< 0.5	< 2	2.22	23.5	7	24	28	2.27	< 10	1	0.03	< 10	0.26	2760
L10+OON 03+50W	201 238	< 5	3.48	0.4	< 5	60	< 0.5	< 2	0.39	1.0	14	52	31	5.22	< 10	< 1	0.04	< 10	0.31	618

CERTIFICATION :

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
 VANCOUVER, B.C.
 V6K 3M3

Project: QUADRA

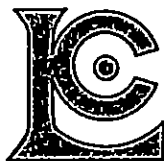
Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

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 Tot. Pages: 6
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CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L8+00N 05+50W	201 238	6	0.03	80	860	2	5	< 10	39	0.17	< 10	< 10	148	< 5	114
L8+00N 06+00W	201 238	< 1	0.01	1	2440	2	< 5	< 10	33	0.11	< 10	< 10	49	< 5	81
L8+00N 06+50W	201 238	< 1	0.02	4	2610	< 2	5	< 10	26	0.18	< 10	< 10	79	< 5	84
L8+00N 07+00W	201 238	< 1	0.03	9	610	< 2	< 5	< 10	82	0.17	< 10	< 10	65	< 5	109
L8+00N 07+50W	201 238	1	0.01	3	1010	6	< 5	< 10	21	0.22	< 10	< 10	86	< 5	58
L8+00N 08+00W	201 238	2	0.01	3	2000	10	< 5	< 10	28	0.04	< 10	< 10	23	< 5	129
L8+00N 08+50W	201 238	7	0.01	99	1690	< 2	5	< 10	82	0.07	< 10	< 10	180	< 5	199
L8+00N 09+00W	201 238	6	0.02	33	900	8	5	< 10	37	0.15	< 10	< 10	114	< 5	76
L8+00N 09+50W	201 238	< 1	0.02	4	470	< 2	< 5	< 10	47	0.16	< 10	< 10	72	< 5	43
L8+00N 10+00W	201 238	1	0.02	8	870	< 2	< 5	< 10	104	0.22	< 10	< 10	114	< 5	64
L8+00N 10+00W	201 238	< 1	0.02	16	940	32	< 5	< 10	82	0.21	< 10	< 10	65	< 5	85
L9+00N 00+00W	201 238	< 1	0.02	4	250	< 2	5	< 10	26	0.14	< 10	< 10	166	< 5	31
L9+00N 00+50W	201 238	< 1	0.02	4	300	4	< 5	< 10	29	0.11	< 10	< 10	56	< 5	22
L9+00N 01+00W	217 238	9	0.04	98	660	10	5	< 10	62	0.06	< 10	< 10	51	< 5	308
L9+00N 01+50W	217 238	2	0.03	33	660	6	10	60	93	< 0.01	< 10	< 10	27	< 5	44
L9+00N 02+00W	217 238	8	0.03	34	1150	24	5	50	108	0.01	< 10	< 10	93	< 5	177
L9+00N 03+00W	217 238	12	0.01	60	1010	8	5	30	227	0.01	< 10	< 10	140	< 5	450
L9+00N 03+50W	201 238	4	0.01	99	430	< 2	5	< 10	21	0.30	< 10	< 10	640	< 5	561
L9+00N 04+00W	201 238	2	0.02	12	2240	6	5	< 10	33	0.12	< 10	< 10	97	< 5	78
L9+00N 04+50W	201 238	35	0.06	156	1030	< 2	5	< 10	186	0.20	< 10	< 10	106	< 5	61
L9+00N 05+00W	201 238	< 1	0.02	13	2090	6	5	< 10	35	0.13	< 10	< 10	70	< 5	79
L9+00N 05+50W	201 238	23	0.01	179	780	< 2	5	< 10	21	0.18	< 10	< 10	105	< 5	93
L9+00N 06+00W	201 238	1	0.02	29	2860	8	< 5	< 10	93	0.11	< 10	< 10	44	< 5	149
L9+00N 06+50W	201 238	< 1	0.02	18	2430	14	5	< 10	57	0.11	< 10	< 10	52	< 5	85
L9+00N 07+00W	201 238	< 1	0.02	4	380	< 2	5	< 10	33	0.23	< 10	< 10	90	< 5	52
L9+00N 07+50W	201 238	< 1	0.04	11	810	< 2	< 5	< 10	58	0.25	< 10	< 10	124	< 5	86
L9+00N 08+00W	201 238	< 1	0.02	8	1520	6	< 5	< 10	37	0.18	< 10	< 10	84	< 5	104
L9+00N 08+50W	201 238	< 1	0.12	32	1900	14	< 5	< 10	92	0.22	< 10	< 10	196	< 5	423
L9+00N 09+00W	201 238	< 1	0.01	5	480	< 2	5	< 10	24	0.24	< 10	< 10	93	< 5	77
L9+00N 09+50W	203 238	2	0.07	51	1050	< 2	< 5	< 10	84	0.16	< 10	< 10	65	< 5	109
L9+00N 10+00W	201 238	< 1	0.01	6	400	< 2	< 5	< 10	21	0.18	< 10	< 10	90	< 5	21
L9+14N 05+00W	201 238	1	0.01	25	4040	4	< 5	< 10	57	0.15	< 10	< 10	98	< 5	86
L10+00N 00+00W	203 238	< 1	0.04	2	420	< 2	< 5	< 10	36	0.09	< 10	< 10	45	< 5	31
L10+00N 00+50W	201 238	< 1	0.05	36	970	< 2	< 5	< 10	43	0.13	< 10	< 10	73	< 5	206
L10+00N 01+00W	201 238	3	0.03	56	2010	< 2	5	< 10	74	0.21	< 10	< 10	126	< 5	65
L10+00N 01+50W	201 238	5	0.01	19	710	< 2	5	< 10	33	0.29	< 10	< 10	340	< 5	261
L10+00N 02+00W	201 238	1	0.05	55	530	< 2	5	< 10	43	0.27	< 10	< 10	186	< 5	266
L10+00N 02+50W	203 238	< 1	0.06	46	1210	4	5	10	161	0.06	< 10	< 10	151	< 5	432
L10+00N 03+00W	201 238	1	0.07	54	1100	2	5	10	171	0.07	< 10	< 10	107	< 5	491
L10+00N 03+50W	201 238	4	0.02	33	740	< 2	5	< 10	27	0.26	< 10	< 10	259	< 5	350

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK

CC: RUDY RIEPE

Page No. :6-A

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Date :14-OCT-87

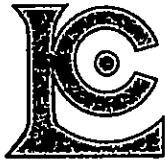
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P.O. # :NONE

CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L10+00N 04+00W	201 238	< 5	2.80	< 0.2	< 5	40	< 0.5	< 2	0.30	1.5	11	47	26	3.79	< 10	< 3	0.04	< 10	0.32	413
L10+00N 04+50W	201 238	< 5	2.70	< 0.2	< 5	50	< 0.5	< 2	0.64	1.0	10	32	42	2.58	< 10	< 1	0.03	< 10	0.35	543
L10+00N 05+00W	201 238	< 5	3.99	0.2	25	30	< 0.5	< 2	0.70	< 0.5	13	26	26	3.41	< 10	< 1	0.04	< 10	0.55	718
L10+00N 05+50W	201 238	< 5	2.52	0.2	< 5	1550	< 0.5	< 2	1.28	1.5	13	43	28	2.59	< 10	< 1	0.06	< 10	0.33	1150
L10+00N 06+00W	201 238	< 5	2.43	0.2	< 5	60	< 0.5	< 2	0.42	1.0	9	9	31	4.93	10	< 1	0.02	< 10	0.18	743
L10+00N 06+50W	201 238	< 5	3.87	0.2	< 5	40	< 0.5	< 2	0.47	1.0	18	24	67	4.29	< 10	< 1	0.03	10	0.81	397
L10+00N 07+00W	201 238	< 5	3.19	< 0.2	< 5	40	< 0.5	< 2	0.42	0.5	10	15	28	3.68	< 10	1	0.03	< 10	0.66	792
L10+00N 07+50W	201 238	< 5	3.23	0.2	10	70	< 0.5	< 2	0.71	0.5	10	15	31	4.36	10	< 1	0.05	< 10	0.69	945
L10+00N 08+00W	201 238	< 5	3.27	< 0.2	10	110	< 0.5	< 2	0.35	0.5	12	10	35	3.04	< 10	< 1	0.06	< 10	0.55	4540
L10+00N 08+50W	201 238	< 5	2.05	0.4	15	70	< 0.5	< 2	1.31	3.0	11	56	64	2.03	< 10	3	0.13	10	0.86	490
L10+00N 09+00W	201 238	< 5	2.70	0.2	10	40	< 0.5	< 2	0.37	< 0.5	6	12	13	3.00	10	< 1	0.04	< 10	0.42	343
L10+00N 09+50W	201 238	< 5	3.40	0.2	< 5	40	< 0.5	< 2	0.36	< 0.5	8	12	24	4.09	10	< 1	0.04	< 10	0.43	366
L10+00N 10+00W	201 238	< 5	4.58	0.2	< 5	100	< 0.5	< 2	0.48	0.5	14	24	37	3.81	< 10	< 1	0.11	< 10	0.72	999
L10+50N 10+00W	201 238	< 5	1.77	0.2	< 5	60	< 0.5	< 2	0.51	1.0	23	20	119	5.66	20	< 1	0.04	< 10	0.53	1630
L11+00N 00+00W	203 238	< 5	4.89	0.2	< 5	150	< 0.5	< 2	1.38	2.0	21	58	56	4.91	10	3	0.03	< 10	0.22	371
L11+00N 00+50W	201 238	< 5	3.07	0.2	< 5	140	< 0.5	< 2	1.14	2.5	15	66	33	4.42	< 10	< 1	0.01	< 10	0.17	961
L11+00N 01+00W	201 238	< 5	3.71	< 0.2	< 5	60	< 0.5	< 2	0.38	0.5	9	22	22	3.84	< 10	1	0.04	< 10	0.42	354
L11+00N 01+50W	201 238	< 5	4.68	0.4	30	30	< 0.5	< 2	9.86	1.0	25	88	93	6.17	< 10	< 1	< 0.01	< 10	0.84	555
L11+00N 02+00W	201 238	< 5	2.57	0.4	25	70	< 0.5	< 2	1.01	2.5	19	70	53	5.22	< 10	< 1	< 0.01	< 10	0.07	1125
L11+00N 02+50W	201 238	< 5	3.18	1.0	< 5	30	< 0.5	< 2	0.53	3.5	18	66	87	5.23	10	3	< 0.01	< 10	0.09	1040
L11+00N 03+00W	201 238	< 5	2.77	0.2	< 5	80	< 0.5	< 2	0.48	2.0	9	29	25	2.70	< 10	< 1	0.09	< 10	0.55	429
L11+00N 03+50W	201 238	< 5	0.69	0.2	< 5	40	< 0.5	< 2	0.18	1.0	1	9	26	2.34	< 10	< 1	0.02	< 10	0.08	134
L11+00N 04+00W	201 238	< 5	1.18	< 0.2	< 5	80	< 0.5	< 2	0.40	0.5	7	62	17	3.57	< 10	3	0.01	< 10	0.20	217
L11+00N 04+50W	201 238	< 5	2.57	< 0.2	< 5	80	< 0.5	< 2	0.45	1.0	15	44	58	2.87	< 10	< 1	0.01	< 10	0.21	596
L11+00N 05+00W	201 238	< 5	4.42	0.2	< 5	60	< 0.5	< 2	0.36	1.0	14	31	60	4.09	< 10	< 1	0.04	10	0.60	401
L11+00N 05+50W	201 238	< 5	2.10	< 0.2	15	240	< 0.5	< 2	0.59	< 0.5	7	29	27	2.19	< 10	< 1	0.01	< 10	0.20	331
L11+00N 06+00W	201 238	< 5	3.61	< 0.2	< 5	70	< 0.5	< 2	0.31	< 0.5	11	18	18	3.84	< 10	< 1	0.04	< 10	0.51	624
L11+00N 06+50W	201 238	< 5	1.23	0.2	< 5	60	< 0.5	< 2	0.33	< 0.5	4	9	9	2.22	< 10	1	0.04	< 10	0.25	799
L11+00N 07+00W	201 238	< 5	2.53	< 0.2	< 5	90	< 0.5	< 2	0.49	1.0	16	< 1	33	5.41	< 10	< 1	0.16	< 10	1.53	1180
L11+00N 07+50W	201 238	< 5	3.55	0.2	5	90	< 0.5	< 2	0.43	0.5	10	17	92	4.02	10	< 1	0.04	10	0.32	921
L11+00N 08+00W	203 238	< 5	1.44	< 0.2	10	50	< 0.5	< 2	0.94	2.0	7	75	33	1.83	< 10	< 1	0.07	< 10	0.36	1110
L11+00N 08+50W	201 238	< 5	4.67	< 0.2	10	30	< 0.5	< 2	0.30	0.5	11	13	24	3.99	< 10	< 1	0.03	< 10	0.49	442
L11+00N 09+00W	201 238	< 5	3.20	0.2	10	60	< 0.5	< 2	0.90	0.5	12	14	37	3.26	< 10	< 1	0.07	< 10	0.76	724
L11+00N 09+50W	201 238	< 5	5.50	0.2	< 5	60	< 0.5	< 2	0.34	0.5	18	15	56	4.11	< 10	< 1	0.07	10	0.46	507
L11+00N 10+00W	201 238	50	1.47	< 0.2	< 5	50	< 0.5	< 2	0.36	0.5	19	17	135	5.17	10	< 1	0.02	< 10	0.16	1980
L11+22N 05+00W	201 238	< 5	1.99	< 0.2	< 5	170	< 0.5	< 2	0.74	0.5	22	37	32	5.17	< 10	< 1	0.04	< 10	0.23	1225

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To : ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project : QUADRA

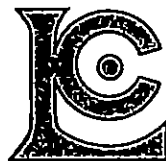
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Page No. : 6-B
Tot. Pages: 6
Date : 14-OCT-87
Invoice # : I-8723743
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8723743

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L10+0CN 04+00W	201 238	9	0.01	105	1780	< 2	5	< 10	47	0.17	< 10	< 10	441	< 5	160
L10+0CN 04+50W	201 238	10	0.01	123	1550	4	< 5	< 10	66	0.12	< 10	< 10	105	< 5	103
L10+0CN 05+00W	201 238	2	0.03	51	1880	14	< 5	< 10	128	0.13	< 10	< 10	90	< 5	115
L10+0CN 05+50W	201 238	5	0.02	90	6700	< 2	5	< 10	137	0.07	< 10	< 10	122	< 5	294
L10+0CN 06+00W	201 238	3	0.01	10	1250	2	< 5	< 10	31	0.16	< 10	< 10	68	< 5	113
L10+0CN 06+50W	201 238	9	0.04	71	900	4	< 5	< 10	59	0.16	< 10	< 10	94	< 5	110
L10+0CN 07+00W	201 238	2	0.03	21	660	14	< 5	< 10	33	0.24	< 10	< 10	90	< 5	78
L10+0CN 07+50W	201 238	1	0.04	6	870	6	< 5	< 10	60	0.20	< 10	< 10	96	< 5	78
L10+0CN 08+00W	201 238	< 1	0.02	11	1870	14	< 5	< 10	39	0.14	< 10	< 10	58	< 5	170
L10+0CN 08+50W	201 238	12	0.02	174	1790	6	5	< 10	75	0.08	10	< 10	389	< 5	242
L10+0CN 09+00W	201 238	< 1	0.02	3	490	< 2	< 5	< 10	35	0.22	< 10	< 10	91	< 5	64
L10+0CN 09+50W	201 238	< 1	0.02	5	650	< 2	< 5	< 10	38	0.21	< 10	< 10	94	< 5	68
L10+0CN 10+00W	201 238	< 1	0.03	14	590	< 2	< 5	< 10	36	0.23	< 10	< 10	81	< 5	49
L10+0CN 10+00W	201 238	< 1	0.03	13	1440	20	5	< 10	158	0.31	< 10	< 10	124	< 5	80
L11+0CN 00+00W	203 238	4	0.02	51	960	2	10	< 10	75	0.26	< 10	< 10	105	< 5	152
L11+0CN 00+50W	201 238	2	0.02	41	800	< 2	< 5	< 10	55	0.34	< 10	< 10	191	< 5	203
L11+0CN 01+00W	201 238	< 1	0.02	9	1380	< 2	5	< 10	26	0.18	< 10	< 10	100	< 5	97
L11+0CN 01+50W	201 238	< 1	0.01	51	850	8	10	< 10	125	0.21	< 10	< 10	97	< 5	101
L11+0CN 02+00W	201 238	< 1	0.02	47	1760	< 2	5	< 10	28	0.18	< 10	< 10	99	< 5	149
L11+0CN 02+50W	201 238	< 1	0.03	81	1160	< 2	< 5	< 10	34	0.23	< 10	< 10	120	< 5	239
L11+0CN 03+00W	201 238	< 1	0.03	21	570	< 2	< 5	< 10	25	0.17	< 10	< 10	88	< 5	103
L11+0CN 03+50W	201 238	2	0.01	3	210	< 2	< 5	< 10	14	0.13	< 10	< 10	74	< 5	44
L11+0CN 04+00W	201 238	7	0.01	61	1490	8	< 5	< 10	37	0.13	< 10	< 10	268	< 5	95
L11+0CN 04+50W	201 238	11	0.02	164	1820	4	< 5	< 10	152	0.09	< 10	< 10	243	< 5	106
L11+0CN 05+00W	201 238	13	0.02	71	1120	2	< 5	< 10	42	0.21	< 10	< 10	123	< 5	82
L11+0CN 05+50W	201 238	12	0.01	152	2820	< 2	< 5	< 10	46	0.07	< 10	< 10	111	< 5	132
L11+0CN 06+00W	201 238	3	0.01	34	1470	< 2	< 5	< 10	29	0.19	< 10	< 10	96	< 5	111
L11+0CN 06+50W	201 238	< 1	0.01	2	870	< 2	5	< 10	27	0.14	< 10	< 10	56	< 5	52
L11+0CN 07+00W	201 238	< 1	0.02	6	900	< 2	5	< 10	22	0.30	< 10	< 10	83	< 5	103
L11+0CN 07+50W	201 238	< 1	0.02	16	920	2	< 5	< 10	47	0.20	< 10	< 10	79	< 5	111
L11+0CN 08+00W	203 238	< 1	0.07	54	210	2	< 5	< 10	69	0.13	< 10	< 10	43	< 5	86
L11+0CN 08+50W	201 238	1	0.02	6	2870	< 2	< 5	10	24	0.17	< 10	< 10	98	< 5	79
L11+0CN 09+00W	201 238	< 1	0.06	8	1080	10	< 5	< 10	85	0.17	< 10	< 10	78	< 5	64
L11+0CN 09+50W	201 238	2	0.02	13	1130	10	< 5	10	33	0.19	< 10	< 10	83	< 5	51
L11+0CN 10+00W	201 238	< 1	0.02	12	1750	18	< 5	10	42	0.25	< 10	< 10	112	< 5	92
L11+22N 05+00W	201 238	5	0.03	37	1840	12	< 5	< 10	59	0.15	< 10	< 10	80	< 5	84

CERTIFICATION :



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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
 VANCOUVER, B.C.
 V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

Page No. : 1-A

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Date : 14-OCT-87

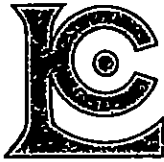
Invoice #: I-8723744

P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA-AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L12+00N 00+00W	201 238	< 5	2.99	0.2	< 5	110	< 0.5	< 2	0.95	3.0	20	41	32	4.07	< 10	< 1	0.01	< 10	0.19	601
L12+00N 00+50W	201 238	< 5	3.92	0.2	< 5	50	< 0.5	2	0.73	2.0	21	73	47	4.60	< 10	< 1	< 0.01	< 10	0.13	551
L12+00N 01+00W	201 238	< 5	4.64	0.2	20	80	< 0.5	2	0.86	3.0	31	79	62	5.13	< 10	< 1	0.02	< 10	0.19	1100
L12+00N 01+50W	217 238	< 5	2.30	0.2	5	100	< 0.5	< 2	1.47	1.5	22	42	42	3.23	< 10	< 1	0.03	< 10	0.14	1315
L12+00N 02+00W	201 238	< 5	3.52	0.4	< 5	80	< 0.5	2	0.33	1.0	12	20	68	2.72	< 10	< 1	0.08	10	0.45	232
L12+00N 02+50W	201 238	< 5	3.27	0.6	< 5	60	< 0.5	< 2	0.38	1.0	14	30	34	3.65	< 10	< 1	0.05	< 10	0.32	613
L12+00N 03+00W	203 238	< 5	2.03	< 0.4	30	80	< 0.5	2	1.50	5.0	10	49	17	2.54	< 10	< 1	0.08	< 10	0.42	1015
L12+00N 03+50W	201 238	< 5	3.42	< 0.2	< 5	50	< 0.5	2	0.28	1.0	11	17	11	3.66	< 10	< 1	0.07	< 10	0.39	426
L12+00N 04+00W	201 238	< 5	1.78	< 0.2	15	90	< 0.5	2	0.30	0.5	10	21	18	2.98	< 10	< 1	0.04	< 10	0.26	523
L12+00N 04+50W	201 238	< 5	3.70	< 0.2	5	150	< 0.5	2	0.51	< 0.5	13	20	46	2.92	< 10	< 1	0.12	< 10	0.74	532
L12+00N 05+00W	201 238	< 5	4.11	< 0.2	15	50	< 0.5	2	0.44	0.5	18	24	16	4.69	< 10	< 1	0.03	< 10	0.25	836
L12+00N 05+50W	201 238	< 5	2.78	< 0.2	5	60	< 0.5	2	0.40	0.5	12	13	18	3.64	< 10	< 1	0.06	< 10	0.58	533
L12+00N 06+00W	201 238	< 5	5.11	0.4	15	70	< 0.5	4	1.35	0.5	21	50	43	4.32	< 10	< 1	0.03	10	0.24	203
L12+00N 06+50W	201 238	< 5	2.97	< 0.2	< 5	70	< 0.5	2	1.14	1.0	17	20	46	5.26	< 10	< 1	0.02	< 10	0.39	328
L12+00N 07+00W	201 238	< 5	2.50	< 0.2	5	110	< 0.5	< 2	2.43	1.0	17	28	19	3.30	< 10	< 1	0.02	< 10	0.30	1310
L12+00N 07+50W	201 238	< 5	3.52	0.2	< 5	120	< 0.5	4	2.21	1.0	26	28	47	3.78	< 10	< 1	0.05	< 10	1.03	1755
L12+00N 08+00W	203 238	< 5	1.91	< 0.2	5	50	< 0.5	4	0.82	2.0	10	55	47	2.84	< 10	< 1	0.07	< 10	0.56	1140
L12+00N 08+50W	201 238	< 5	2.97	< 0.2	30	90	< 0.5	2	0.29	0.5	17	18	29	3.86	< 10	< 1	0.04	< 10	0.56	1760
L12+00N 09+00W	201 238	< 5	3.88	0.4	30	310	< 0.5	4	1.52	3.0	18	19	62	3.60	< 10	< 1	0.40	< 10	1.51	4340
L12+00N 09+50W	203 238	< 5	4.09	< 0.2	5	40	< 0.5	< 2	0.38	< 0.5	10	35	13	2.87	< 10	< 1	0.05	< 10	0.42	732
L12+00N 10+00W	201 238	< 5	3.97	< 0.2	20	130	< 0.5	2	0.49	0.5	12	15	18	3.26	< 10	< 1	0.05	< 10	0.49	815
L12+50N 10+00W	201 238	< 5	3.72	0.2	15	150	< 0.5	4	1.17	4.0	15	26	66	3.44	< 10	< 1	0.17	< 10	0.85	1655
L13+00N 00+00W	201 238	< 5	2.50	0.2	10	80	< 0.5	2	0.80	3.5	21	56	51	4.90	< 10	< 1	0.01	< 10	0.23	481
L13+00N 00+50W	201 238	< 5	3.67	< 0.2	20	120	< 0.5	2	1.11	2.0	23	57	24	5.22	< 10	< 1	0.02	< 10	0.17	1355
L13+00N 01+00W	201 238	< 5	3.43	0.4	30	130	< 0.5	2	1.16	2.5	26	49	42	4.45	< 10	< 1	0.02	< 10	0.22	1720
L13+00N 01+50W	201 238	< 5	2.49	0.6	10	50	< 0.5	< 2	0.81	14.5	7	40	49	2.08	< 10	< 1	0.03	< 10	0.22	160
L13+00N 02+00W	201 238	< 5	1.99	< 0.2	5	30	< 0.5	2	0.26	1.0	6	17	15	3.46	< 10	< 1	0.04	< 10	0.23	168
L13+00N 02+50W	201 238	< 5	2.84	0.6	105	70	< 0.5	2	1.75	18.0	14	50	45	3.45	< 10	< 1	0.05	< 10	0.43	723
L13+00N 03+00W	201 238	< 5	2.90	0.6	15	90	< 0.5	4	1.77	60.0	12	22	51	2.77	< 10	< 1	0.07	< 10	0.37	1425
L13+00N 03+50W	201 238	< 5	1.51	< 0.2	5	50	< 0.5	< 2	0.28	1.0	7	19	22	2.68	< 10	< 1	0.03	< 10	0.26	240
L13+00N 04+00W	201 238	< 5	3.61	0.2	15	120	< 0.5	2	1.64	3.5	40	72	95	5.05	< 10	< 1	0.03	< 10	0.25	1990
L13+00N 04+50W	201 238	< 5	3.58	0.2	60	50	< 0.5	< 2	1.74	2.5	13	34	56	2.75	< 10	< 1	0.02	< 10	0.36	497
L13+00N 05+00W	203 238	< 5	4.69	< 0.2	10	70	< 0.5	< 2	0.55	0.5	147	62	110	3.76	< 10	< 1	0.03	10	0.43	2430
L13+00N 05+50W	201 238	< 5	2.85	< 0.2	5	70	< 0.5	2	0.75	< 0.5	8	6	45	3.46	< 10	< 1	0.03	< 10	0.27	445
L13+00N 06+00W	201 238	< 5	4.08	< 0.2	< 5	40	< 0.5	2	0.32	0.5	11	10	35	3.71	< 10	< 1	0.03	< 10	0.45	307
L13+00N 06+50W	201 238	< 5	3.08	0.6	10	240	< 0.5	2	5.64	4.0	26	104	58	6.04	< 10	< 1	0.01	< 10	0.51	1995
L13+00N 07+00W	201 238	< 5	3.12	< 0.2	20	80	< 0.5	< 2	3.40	< 0.5	17	17	15	4.12	< 10	< 1	0.01	< 10	0.23	450
L13+00N 07+50W	201 238	< 5	3.17	0.4	15	130	< 0.5	2	2.79	2.5	15	23	45	3.21	< 10	< 1	0.03	< 10	0.43	5320
L13+00N 08+00W	201 238	< 5	5.39	< 0.2	10	50	< 0.5	2	0.74	< 0.5	17	19	25	4.65	< 10	< 1	0.02	< 10	0.43	910
L13+00N 08+50W	201 238	< 5	2.33	0.2	15	80	< 0.5	< 2	2.18	3.5	18	59	47	3.33	< 10	< 1	0.02	< 10	0.37	1925

CERTIFICATION :



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301 - 1855 BALSAM ST.
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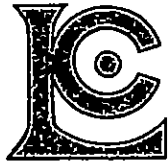
Invoice #: I-8723744

P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L12+OON 00+00W	201 238	7	0.02	55	860	6	< 5	< 10	41	0.28	< 10	< 10	169	< 5	332
L12+OON 00+50W	201 238	2	0.03	40	1060	< 2	< 5	20	36	0.26	< 10	< 10	151	< 5	127
L12+OON 01+00W	201 238	3	0.03	60	1620	< 2	< 5	10	38	0.29	< 10	< 10	182	< 5	230
L12+OON 01+50W	217 238	2	0.04	24	2360	16	< 5	10	59	0.18	< 10	< 10	114	< 5	138
L12+OON 02+00W	201 238	2	0.02	16	460	6	< 5	< 10	23	0.19	< 10	< 10	78	< 5	33
L12+OON 02+50W	201 238	< 1	0.02	14	1750	4	< 5	10	22	0.15	< 10	< 10	93	< 5	159
L12+OON 03+00W	203 238	1	0.10	36	940	< 2	< 5	< 10	131	0.13	< 10	< 10	104	< 5	319
L12+OON 03+50W	201 238	4	0.02	14	1220	8	< 5	10	22	0.18	< 10	< 10	101	< 5	195
L12+OON 04+00W	201 238	1	0.01	63	1500	6	< 5	< 10	25	0.15	< 10	< 10	119	< 5	164
L12+OON 04+50W	201 238	2	0.04	43	950	6	< 5	< 10	36	0.19	< 10	< 10	78	< 5	83
L12+OON 05+00W	201 238	8	0.01	72	2870	2	< 5	10	31	0.15	< 10	< 10	87	< 5	218
L12+OON 05+50W	201 238	2	0.02	15	1520	4	< 5	< 10	31	0.25	< 10	< 10	95	< 5	135
L12+OON 06+00W	201 238	4	0.01	262	3110	16	< 5	< 10	103	0.20	< 10	< 10	267	< 5	155
L12+OON 06+50W	201 238	5	0.03	103	850	2	< 5	10	54	0.29	< 10	< 10	256	< 5	221
L12+OON 07+00W	201 238	< 1	0.02	115	3250	6	< 5	< 10	96	0.11	< 10	< 10	81	< 5	227
L12+OON 07+50W	201 238	< 1	0.04	49	6000	12	< 5	< 10	461	0.10	< 10	< 10	52	< 5	194
L12+OON 08+00W	203 238	< 1	0.06	95	390	< 2	< 5	10	69	0.17	< 10	< 10	67	< 5	127
L12+OON 08+50W	201 238	4	0.02	26	3010	2	5	20	46	0.13	< 10	< 10	118	< 5	162
L12+OON 09+00W	201 238	< 1	0.07	37	3080	16	< 5	10	520	0.11	< 10	< 10	48	< 5	199
L12+OON 09+50W	203 238	< 1	0.03	4	1660	6	< 5	< 10	35	0.13	< 10	< 10	62	< 5	62
L12+OON 10+00W	201 238	< 1	0.02	11	1730	4	< 5	10	66	0.12	< 10	< 10	59	< 5	72
L12+OON 10+50W	201 238	1	0.05	14	580	2	< 5	10	98	0.24	< 10	< 10	80	< 5	101
L13+OON 00+00W	201 238	17	0.02	55	590	2	< 5	10	35	0.45	< 10	< 10	264	< 5	375
L13+OON 00+50W	201 238	1	0.02	31	1190	2	5	10	29	0.32	< 10	< 10	165	< 5	203
L13+OON 01+00W	201 238	< 1	0.02	38	3800	8	< 5	10	82	0.15	< 10	< 10	116	< 5	232
L13+OON 01+50W	201 238	1	0.03	74	550	8	< 5	< 10	39	0.16	< 10	< 10	66	< 5	117
L13+OON 02+00W	201 238	2	0.01	10	280	8	< 5	10	17	0.22	< 10	< 10	96	< 5	75
L13+OON 02+50W	201 238	2	0.09	99	1040	4	< 5	10	137	0.15	< 10	< 10	163	< 5	1035
L13+OON 03+00W	201 238	3	0.03	68	1120	16	< 5	20	106	0.15	< 10	< 10	124	< 5	754
L13+OON 03+50W	201 238	1	0.01	10	320	2	< 5	< 10	21	0.17	< 10	< 10	110	< 5	68
L13+OON 04+00W	201 238	17	0.09	186	2380	2	< 5	10	167	0.12	< 10	< 10	377	< 5	347
L13+OON 04+50W	201 238	3	0.02	187	2090	< 2	< 5	< 10	90	0.10	< 10	< 10	242	< 5	205
L13+OON 05+00W	203 238	5	0.03	29	1430	12	< 5	20	38	0.14	< 10	< 10	70	< 5	82
L13+OON 05+50W	201 238	1	0.02	6	2440	4	< 5	< 10	34	0.08	< 10	< 10	55	< 5	63
L13+OON 06+00W	201 238	6	0.02	9	570	4	< 5	10	29	0.21	< 10	< 10	85	< 5	52
L13+OON 06+50W	201 238	1	0.02	249	2570	22	< 5	30	153	0.18	< 10	10	616	< 5	353
L13+OON 07+00W	201 238	< 1	0.02	27	5530	< 2	< 5	< 10	104	0.08	< 10	< 10	65	< 5	125
L13+OON 07+50W	201 238	< 1	0.04	40	3940	18	< 5	20	248	0.08	< 10	< 10	28	< 5	291
L13+OON 08+00W	201 238	7	0.02	76	1540	6	< 5	10	92	0.12	< 10	< 10	82	< 5	116
L13+OON 08+50W	201 238	9	0.04	158	1570	4	< 5	10	186	0.11	< 10	< 10	325	< 5	329

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

To : ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
 VANCOUVER, B.C.
 V6K 3M3

Project : QUADRA

Comments: CC: PAUL KALLOCK

CC: RUDY RIEPE

Page No. : 2-A

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Date : 14-OCT-87

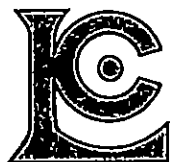
Invoice # : I-8723744

P.O. # : NONE

CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA-AA	Al %	Ag ppm	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L13+00N 09+00W	201 238	5	3.69	< 0.2	50	80	< 0.5	< 2	0.37	1.5	16	45	36	3.78	< 10	< 1	0.08	< 10	0.76	896
L13+00N 09+50W	201 238	< 5	3.36	< 0.2	15	30	< 0.5	2	0.43	< 0.5	18	155	40	3.42	< 10	< 1	0.02	< 10	1.04	640
L13+00N 10+00W	201 238	< 5	4.03	< 0.2	5	80	< 0.5	2	0.65	2.0	21	18	72	3.72	< 10	1	0.06	10	0.53	1775
L14+00N 00+00W	201 238	< 5	3.90	0.4	15	60	< 0.5	2	0.83	2.5	18	57	37	4.73	< 10	< 1	0.02	< 10	0.23	262
L14+00N 00+50W	201 238	< 5	1.76	< 0.2	35	130	< 0.5	2	1.04	2.0	13	27	37	4.65	< 10	< 1	0.03	< 10	0.19	753
L14+00N 01+00W	201 238	< 5	4.99	0.6	55	80	< 0.5	2	1.15	4.0	26	55	51	4.35	< 10	< 1	0.03	< 10	0.23	1775
L14+00N 01+50W	201 238	< 5	4.87	0.2	10	50	< 0.5	2	0.73	6.5	16	32	43	3.86	< 10	< 1	0.03	< 10	0.38	757
L14+00N 02+00W	201 238	< 5	1.87	< 0.2	10	40	< 0.5	< 2	0.68	3.0	8	16	25	2.80	< 10	< 1	0.04	< 10	0.29	217
L14+00N 02+50W	201 238	< 5	3.67	< 0.2	< 5	30	< 0.5	< 2	0.26	1.0	8	17	8	2.65	< 10	< 1	0.04	< 10	0.28	298
L14+00N 03+00W	201 238	< 5	3.74	0.2	< 5	30	< 0.5	< 2	0.55	7.0	12	36	33	4.27	< 10	< 1	0.03	< 10	0.37	472
L14+00N 03+50W	201 238	< 5	4.07	0.2	10	50	< 0.5	2	2.57	7.0	17	135	46	4.50	< 10	1	< 0.01	< 10	0.19	400
L14+00N 04+00W	217 238	< 5	1.39	< 0.2	15	80	< 0.5	2	0.92	1.0	5	45	51	8.12	< 10	1	0.03	< 10	0.13	193
L14+00N 04+50W	201 238	< 5	3.34	0.4	10	80	< 0.5	2	3.61	1.5	17	74	20	4.62	< 10	< 1	0.02	< 10	0.14	1290
L14+00N 05+00W	201 238	< 5	2.92	0.2	5	50	< 0.5	2	4.66	< 0.5	18	29	29	3.17	< 10	< 1	0.02	< 10	0.18	354
L14+00N 05+50W	201 238	< 5	0.96	0.2	< 5	40	< 0.5	< 2	0.48	< 0.5	6	26	20	1.66	< 10	< 1	0.02	< 10	0.25	190
L14+00N 06+00W	201 238	< 5	3.33	0.4	5	30	< 0.5	< 2	5.84	< 0.5	8	33	14	2.38	< 10	< 1	0.01	< 10	0.29	430
L14+00N 06+50W	201 238	< 5	3.38	0.4	10	130	< 0.5	4	3.65	1.0	35	19	66	3.64	< 10	< 1	0.02	< 10	0.23	2310
L14+00N 07+00W	201 238	< 5	3.06	< 0.2	< 5	100	< 0.5	2	0.55	< 0.5	12	5	40	7.27	< 10	< 1	0.03	< 10	0.38	1065
L14+00N 07+50W	201 238	< 5	3.99	< 0.2	20	100	< 0.5	2	3.18	< 0.5	18	16	51	3.85	< 10	< 1	0.05	< 10	0.61	1960
L14+00N 08+00W	201 238	< 5	2.71	< 0.2	10	70	< 0.5	< 2	0.41	< 0.5	15	23	17	3.75	< 10	< 1	0.07	< 10	0.57	1035
L14+00N 08+50W	201 238	< 5	6.23	< 0.2	25	100	< 0.5	4	0.69	12.0	31	26	66	6.34	< 10	1	0.07	< 10	1.71	2330
L14+00N 09+00W	201 238	< 5	3.25	< 0.2	20	120	< 0.5	2	0.31	2.0	19	55	37	4.58	< 10	< 1	0.10	< 10	0.84	1070
L14+00N 09+50W	201 238	< 5	3.12	< 0.2	< 5	30	< 0.5	2	0.37	0.5	11	13	26	3.81	< 10	2	0.04	< 10	0.47	496
L14+00N 10+00W	201 238	< 5	1.22	< 0.2	< 5	40	< 0.5	2	0.32	< 0.5	15	13	176	4.45	< 10	< 1	0.03	< 10	0.26	589
L14+50N 10+00W	201 238	< 5	3.64	< 0.2	5	70	< 0.5	2	0.42	1.0	16	32	28	4.42	< 10	< 1	0.09	< 10	0.71	588
L15+00N 00+00W	201 238	< 5	4.67	0.2	5	80	< 0.5	4	0.72	2.5	21	61	45	4.53	< 10	< 1	0.01	< 10	0.24	431
L15+00N 00+50W	201 238	< 5	1.83	0.2	5	110	< 0.5	< 2	0.76	2.0	19	38	34	3.85	< 10	2	< 0.01	< 10	0.14	1290
L15+00N 01+00W	201 238	< 5	4.89	0.4	5	70	< 0.5	< 2	0.91	2.5	29	71	59	4.99	< 10	< 1	0.01	< 10	0.21	623
L15+00N 01+50W	201 238	< 5	3.94	0.2	25	60	< 0.5	< 2	0.74	2.5	15	79	116	4.30	< 10	< 1	0.01	< 10	0.13	402
L15+00N 02+00W	201 238	< 5	3.34	0.6	5	70	< 0.5	2	0.67	4.5	22	77	40	4.40	< 10	< 1	< 0.01	< 10	0.13	1295
L15+00N 02+50W	203 238	5	2.44	0.4	25	60	< 0.5	< 2	1.36	1.0	12	113	43	3.40	< 10	< 1	0.05	< 10	0.27	699
L15+00N 03+00W	201 238	< 5	2.03	0.6	< 5	90	< 0.5	< 2	7.99	48.0	12	92	125	2.85	< 10	2	0.06	< 10	0.16	1350
L15+00N 03+50W	201 238	< 5	4.39	0.2	< 5	80	< 0.5	< 2	3.91	6.5	16	142	54	4.49	< 10	< 1	< 0.01	< 10	0.24	1145
L15+00N 04+00W	201 238	< 5	3.75	0.4	< 5	60	< 0.5	< 2	0.50	2.0	18	68	54	5.77	< 10	< 1	0.02	< 10	0.22	390
L15+00N 04+50W	201 238	< 5	3.44	0.2	< 5	90	< 0.5	< 2	0.51	0.5	13	15	62	5.25	< 10	< 1	0.07	< 10	0.53	735
L15+00N 05+00W	201 238	< 5	2.76	0.8	< 5	70	< 0.5	< 2	1.49	6.0	12	30	206	3.88	< 10	< 1	0.04	< 10	0.88	375
L15+00N 05+50W	201 238	< 5	2.80	0.2	< 5	100	< 0.5	< 2	2.88	1.5	10	33	25	2.53	< 10	< 1	0.01	< 10	0.25	1460
L15+00N 06+00W	201 238	< 5	2.47	0.2	< 5	70	< 0.5	< 2	1.37	0.5	10	26	23	5.00	< 10	2	0.02	< 10	0.30	460
L15+00N 06+50W	201 238	5	2.19	0.6	< 5	40	< 0.5	< 2	1.01	0.5	12	46	29	3.46	< 10	1	0.02	< 10	0.52	796
L15+00N 07+00W	201 238	< 5	2.97	0.2	< 5	70	< 0.5	< 2	0.62	< 0.5	14	9	24	4.73	< 10	1	0.04	< 10	0.73	1045

CERTIFICATION :



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Analytical Chemists * Geochemists * Registered Assayers

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301 - 1855 BALSAM ST.

VANCOUVER, B.C.

V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOK

CC: RUDY RIEPE

Page No. :2-B

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Date :14-OCT-87

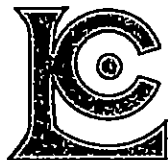
Invoice #:I-8723744

P.O. # :NONE

CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L13+00N 09+00W	201 238	24	0.02	87	2230	16	< 5	20	69	0.12	< 10	< 10	322	< 5	432
L13+00N 09+50W	201 238	1	0.04	29	720	4	< 5	10	30	0.23	< 10	< 10	76	< 5	59
L13+00N 10+00W	201 238	1	0.03	29	980	12	< 5	10	102	0.20	< 10	< 10	68	< 5	119
L14+00N 00+00W	201 238	5	0.01	51	1040	< 2	< 5	10	24	0.29	< 10	< 10	187	< 5	284
L14+00N 00+50W	201 238	2	0.01	23	1600	12	< 5	10	34	0.20	< 10	< 10	129	< 5	188
L14+00N 01+00W	201 238	3	0.01	44	1580	4	< 5	10	26	0.27	< 10	< 10	138	< 5	327
L14+00N 01+50W	201 238	1	0.03	71	1310	< 2	< 5	10	40	0.16	< 10	< 10	92	< 5	277
L14+00N 02+00W	201 238	1	0.02	18	370	6	< 5	< 10	35	0.16	< 10	< 10	81	< 5	77
L14+00N 02+50W	201 238	4	0.02	10	710	< 2	< 5	10	17	0.12	< 10	< 10	80	< 5	138
L14+00N 03+00W	201 238	4	0.01	203	1200	2	< 5	10	24	0.22	< 10	< 10	214	< 5	1170
L14+00N 03+50W	201 238	3	0.01	159	920	< 2	< 5	< 10	81	0.27	< 10	10	819	< 5	1905
L14+00N 04+00W	217 238	1	0.02	9	2500	20	5	10	74	0.15	< 10	< 10	106	< 5	139
L14+00N 04+50W	201 238	3	0.02	101	5900	18	< 5	< 10	193	0.13	< 10	< 10	324	< 5	304
L14+00N 05+00W	201 238	2	0.01	57	650	< 2	< 5	< 10	96	0.13	< 10	< 10	128	< 5	102
L14+00N 05+50W	201 238	1	0.04	11	510	12	< 5	< 10	21	0.08	< 10	< 10	46	< 5	34
L14+00N 06+00W	201 238	< 1	0.01	40	1190	6	< 5	< 10	26	0.11	< 10	< 10	136	< 5	96
L14+00N 06+50W	201 238	7	0.03	79	4880	28	< 5	10	120	0.09	< 10	< 10	62	< 5	200
L14+00N 07+00W	201 238	8	0.02	20	2370	4	< 5	< 10	137	0.18	< 10	< 10	81	< 5	133
L14+00N 07+50W	201 238	< 1	0.03	36	4310	8	< 5	10	245	0.12	< 10	< 10	33	< 5	114
L14+00N 08+00W	201 238	2	0.03	19	1760	< 2	< 5	< 10	34	0.23	< 10	< 10	88	< 5	106
L14+00N 08+50W	201 238	4	0.11	28	1510	10	5	10	61	0.20	< 10	< 10	236	< 5	2850
L14+00N 09+00W	201 238	13	0.02	106	1000	2	< 5	< 10	37	0.15	< 10	< 10	309	< 5	298
L14+00N 09+50W	201 238	5	0.02	6	620	4	< 5	10	28	0.24	< 10	< 10	93	< 5	81
L14+00N 10+00W	201 238	< 1	0.03	17	1370	6	< 5	< 10	26	0.28	< 10	< 10	85	< 5	76
L14+50N 10+00W	201 238	3	0.03	15	1090	12	< 5	10	39	0.27	< 10	< 10	87	< 5	185
L15+00N 00+00W	201 238	4	0.02	57	980	4	< 5	10	19	0.33	< 10	< 10	183	< 5	310
L15+00N 00+50W	201 238	2	0.04	34	1510	< 2	< 5	< 10	55	0.20	< 10	< 10	114	< 5	166
L15+00N 01+00W	201 238	2	0.02	68	1350	6	< 5	20	34	0.28	< 10	< 10	182	< 5	265
L15+00N 01+50W	201 238	5	0.03	63	970	< 2	5	10	34	0.28	< 10	< 10	243	< 5	285
L15+00N 02+00W	201 238	1	0.03	62	900	4	< 5	10	32	0.32	< 10	< 10	179	< 5	370
L15+00N 02+50W	203 238	< 1	0.15	31	1170	6	5	< 10	169	0.17	< 10	< 10	133	< 5	163
L15+00N 03+00W	201 238	< 1	0.03	115	3440	8	10	10	480	0.07	< 10	< 10	474	< 5	1880
L15+00N 03+50W	201 238	< 1	0.02	135	1670	10	10	< 10	119	0.29	< 10	< 10	851	< 5	1425
L15+00N 04+00W	201 238	12	0.01	161	1240	< 2	5	< 10	68	0.18	< 10	< 10	451	< 5	448
L15+00N 04+50W	201 238	5	0.02	61	1250	4	5	< 10	47	0.18	< 10	< 10	100	< 5	138
L15+00N 05+00W	201 238	8	0.03	125	1490	2	< 5	< 10	95	0.21	< 10	< 10	188	< 5	237
L15+00N 05+50W	201 238	< 1	0.01	109	2180	2	10	< 10	164	0.13	< 10	< 10	242	< 5	176
L15+00N 06+00W	201 238	2	0.02	33	2250	6	< 5	< 10	88	0.19	< 10	< 10	172	< 5	149
L15+00N 06+50W	201 238	4	0.01	155	1060	124	5	< 10	60	0.15	< 10	< 10	259	< 5	347
L15+00N 07+00W	201 238	< 1	0.04	6	1600	6	5	< 10	47	0.20	< 10	< 10	74	< 5	133

CERTIFICATION :



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To: ARCTEX ENGINEERING

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Project: QUADRA

Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

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Tot. Pages: 6

Date: 14-OCT-87

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P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA-AA	Al %	Ag ppm	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L15+OON 07+50W	201 238	< 5	2.56	< 0.2	< 5	90	< 0.5	< 2	0.42	0.5	12	21	33	2.76	< 10	< 1	0.05	< 10	0.58	1340
L15+OON 08+00W	201 238	< 5	3.68	< 0.2	< 5	30	< 0.5	< 2	0.37	1.0	13	30	33	3.72	< 10	< 1	0.04	< 10	0.87	562
L15+OON 08+50W	201 238	< 5	3.45	0.6	10	120	< 0.5	< 2	0.29	3.0	20	78	47	4.93	< 10	6	0.08	10	0.89	2490
L15+OON 09+00W	201 238	< 5	3.06	0.2	< 5	60	< 0.5	< 2	0.28	1.0	10	16	24	3.38	< 10	1	0.04	< 10	0.45	1430
L15+OON 09+50W	201 238	< 5	4.30	0.2	< 5	50	< 0.5	< 2	0.38	4.0	13	24	64	3.95	< 10	< 1	0.04	< 10	0.70	598
L15+OON 10+00W	201 238	< 5	4.95	0.4	< 5	50	< 0.5	< 2	1.35	13.0	10	18	30	3.58	< 10	3	0.03	< 10	0.41	954
L15+OON 10+50W	201 238	< 5	3.36	0.2	< 5	120	< 0.5	< 2	0.58	1.5	8	38	19	3.07	< 10	< 1	0.04	< 10	0.23	706
L16+OON 00+50E	201 238	< 5	1.93	0.2	25	60	< 0.5	< 2	1.13	0.5	24	35	89	4.28	< 10	< 1	< 0.01	< 10	0.22	351
L16+OON 01+00E	203 238	< 5	3.04	0.2	35	240	< 0.5	< 2	4.36	1.5	33	68	72	3.85	< 10	< 1	0.04	< 10	0.59	1525
L16+OON 01+50E	201 238	< 5	3.52	0.2	75	200	< 0.5	< 2	0.75	1.5	13	25	64	3.53	< 10	< 1	0.20	< 10	0.87	539
L16+OON 02+00E	201 238	< 5	2.47	< 0.2	< 5	80	< 0.5	< 2	0.38	0.5	5	13	12	2.41	< 10	2	0.02	< 10	0.22	506
L16+OON 02+50E	201 238	< 5	2.07	< 0.2	< 5	30	< 0.5	< 2	0.28	1.0	2	11	11	2.35	< 10	< 1	0.03	< 10	0.23	154
L16+OON 03+00E	201 238	< 5	0.99	< 0.2	< 5	110	< 0.5	< 2	0.51	0.5	4	19	46	1.99	< 10	< 1	0.02	< 10	0.14	251
L16+OON 03+50E	203 238	< 5	2.95	< 0.2	< 5	80	< 0.5	< 2	0.75	0.5	7	41	24	2.91	< 10	< 1	0.08	< 10	0.56	499
L16+OON 04+00E	201 238	< 5	2.30	< 0.2	< 5	90	< 0.5	< 2	0.32	< 0.5	6	14	20	2.80	< 10	1	0.04	< 10	0.25	401
L16+OON 04+50E	201 238	< 5	4.59	0.2	< 5	50	< 0.5	< 2	0.50	< 0.5	17	29	55	3.62	< 10	< 1	0.13	< 10	0.84	719
L16+OON 05+00E	201 238	< 5	2.80	< 0.2	< 5	70	< 0.5	< 2	0.41	< 0.5	9	15	20	2.88	< 10	2	0.07	< 10	0.44	590
L16+OON 00+00W	201 238	< 5	4.16	0.4	< 5	110	< 0.5	< 2	0.96	2.5	19	61	85	5.05	< 10	< 1	0.02	< 10	0.57	267
L16+OON 00+50W	201 238	< 5	2.75	< 0.2	< 5	40	< 0.5	< 2	0.69	1.5	14	58	30	3.80	< 10	< 1	< 0.01	< 10	0.16	682
L16+OON 01+00W	201 238	< 5	3.57	0.2	< 5	70	< 0.5	< 2	0.93	2.5	33	38	71	5.12	< 10	< 1	0.02	< 10	0.42	1380
L16+OON 01+50W	201 238	< 5	4.78	0.6	< 5	90	< 0.5	< 2	1.18	2.5	18	75	79	4.87	< 10	1	< 0.01	< 10	0.15	571
L16+OON 02+00W	201 238	< 5	3.44	0.2	10	90	< 0.5	< 2	1.01	6.0	20	72	61	4.42	< 10	< 1	< 0.01	< 10	0.21	1050
L16+OON 02+50W	201 238	< 5	3.24	0.6	15	100	< 0.5	< 2	0.80	3.0	17	92	31	6.18	< 10	< 1	0.01	< 10	0.17	725
L16+OON 03+00W	203 238	< 5	2.33	0.2	< 5	60	< 0.5	< 2	1.52	2.5	9	96	43	2.86	< 10	< 1	0.04	< 10	0.43	685
L16+OON 03+50W	201 238	< 5	4.04	0.8	< 5	30	< 0.5	< 2	3.42	7.0	13	146	18	4.60	< 10	< 1	< 0.01	< 10	0.18	661
L16+OON 04+00W	203 238	10	3.66	< 0.2	20	70	< 0.5	< 2	0.53	1.0	11	53	24	3.24	< 10	< 1	0.08	< 10	0.59	639
L16+OON 04+50W	201 238	< 5	3.66	0.2	15	90	< 0.5	< 2	0.95	1.0	9	59	37	3.56	< 10	3	0.02	10	0.27	412
L16+OON 05+00W	201 238	< 5	1.88	< 0.2	< 5	30	< 0.5	< 2	0.23	0.5	9	54	11	2.90	< 10	1	0.01	< 10	0.15	171
L16+OON 05+50W	201 238	< 5	2.48	< 0.2	25	90	< 0.5	< 2	0.32	0.5	11	74	25	3.10	< 10	2	0.02	10	0.32	648
L16+OON 06+00W	201 238	< 5	2.54	0.2	< 5	250	< 0.5	< 2	0.64	0.5	10	55	50	1.95	< 10	4	0.23	10	0.82	81
L16+OON 06+50W	203 238	< 5	3.30	0.4	< 5	120	< 0.5	< 2	0.53	2.0	24	153	63	7.92	< 10	< 1	0.03	< 10	1.11	1730
L16+OON 07+00W	201 238	< 5	4.45	0.2	< 5	110	< 0.5	< 2	1.42	1.0	28	52	56	6.06	< 10	< 1	0.02	< 10	0.42	1100
L16+OON 07+50W	201 238	< 5	3.56	0.2	60	100	< 0.5	< 2	0.54	1.5	20	39	57	4.27	< 10	< 1	0.09	< 10	1.06	1320
L16+OON 08+00W	201 238	< 5	2.06	< 0.2	< 5	70	< 0.5	< 2	0.39	0.5	9	21	16	3.51	< 10	< 1	0.05	< 10	0.42	521
L16+OON 08+50W	201 238	< 5	1.79	< 0.2	< 5	60	< 0.5	< 2	0.42	1.0	7	14	18	2.50	< 10	1	0.03	< 10	0.27	1225
L16+OON 09+00W	201 238	< 5	2.02	< 0.2	10	30	< 0.5	< 2	0.21	1.0	11	39	32	3.60	< 10	1	0.04	< 10	0.35	440
L16+OON 09+50W	203 238	< 5	2.14	0.4	< 5	140	< 0.5	< 2	0.47	3.0	25	107	62	5.17	< 10	2	0.13	< 10	0.58	1565
L16+OON 10+00W	201 238	< 5	3.55	0.2	< 5	90	< 0.5	< 2	0.72	6.0	13	24	39	4.24	< 10	2	0.07	10	0.41	1450
L16+OON 05+00W	201 238	< 5	3.97	0.2	< 5	40	< 0.5	< 2	0.37	0.5	12	21	23	5.40	< 10	< 1	0.04	< 10	0.42	580
L17+OON 00+50E	203 238	< 5	2.79	0.2	< 5	130	< 0.5	< 2	2.90	2.5	16	107	28	4.96	10	< 1	0.04	< 10	0.25	1180

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK

CC: RUDY RIEPE

Page No. :3-B

Tot. Pages:6

Date :14-OCT-87

Invoice #: I-8723744

P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L15+00N 07+50W	201 238	< 1	0.01	17	2890	14	< 5	< 10	78	0.09	< 10	< 10	48	< 5	122
L15+00N 08+00W	201 238	3	0.03	42	870	4	< 5	< 10	29	0.22	< 10	< 10	111	< 5	121
L15+00N 08+50W	201 238	8	0.01	98	1430	12	5	< 10	21	0.19	< 10	< 10	373	< 5	1005
L15+00N 09+00W	201 238	2	0.01	20	1780	10	< 5	< 10	25	0.15	< 10	< 10	100	< 5	225
L15+00N 09+50W	201 238	3	0.02	212	670	10	< 5	< 10	32	0.21	< 10	< 10	107	< 5	714
L15+00N 10+00W	201 238	1	0.03	18	1130	2	5	< 10	87	0.16	< 10	< 10	65	< 5	166
L15+50N 10+00W	201 238	10	0.02	123	1810	2	< 5	< 10	192	0.14	< 10	< 10	321	< 5	85
L16+00N 00+50E	201 238	1	0.01	75	590	< 2	5	< 10	36	0.24	< 10	< 10	70	< 5	93
L16+00N 01+00E	203 238	< 1	0.04	62	850	< 2	15	< 10	163	0.24	< 10	< 10	70	< 5	148
L16+00N 01+50E	201 238	< 1	0.05	39	380	2	< 5	< 10	59	0.20	< 10	< 10	79	< 5	76
L16+00N 02+00E	201 238	< 1	0.02	3	300	< 2	< 5	< 10	35	0.12	< 10	< 10	56	< 5	38
L16+00N 02+50E	201 238	< 1	0.01	3	330	< 2	< 5	< 10	19	0.16	< 10	< 10	55	< 5	28
L16+00N 03+00E	201 238	< 1	0.03	11	540	< 2	< 5	< 10	40	0.10	< 10	< 10	58	< 5	61
L16+00N 03+50E	203 238	< 1	0.07	7	930	< 2	5	< 10	55	0.13	< 10	< 10	75	< 5	42
L16+00N 04+00E	201 238	< 1	0.02	4	620	< 2	< 5	< 10	23	0.14	< 10	< 10	68	< 5	66
L16+00N 04+50E	201 238	< 1	0.04	21	550	< 2	5	< 10	28	0.24	< 10	< 10	79	< 5	72
L16+00N 05+00E	201 238	< 1	0.03	7	460	10	< 5	< 10	32	0.19	< 10	< 10	66	< 5	49
L16+00N 00+00W	201 238	11	0.03	69	810	< 2	< 5	< 10	42	0.34	< 10	< 10	135	< 5	264
L16+00N 00+50W	201 238	1	0.03	30	560	< 2	5	< 10	28	0.35	< 10	< 10	129	< 5	126
L16+00N 01+00W	201 238	< 1	0.08	71	1200	2	5	< 10	81	0.28	< 10	< 10	102	< 5	245
L16+00N 01+50W	201 238	< 1	0.04	51	1350	< 2	< 5	< 10	42	0.39	< 10	< 10	170	< 5	177
L16+00N 02+00W	201 238	< 1	0.03	61	1420	6	< 5	< 10	36	0.28	< 10	< 10	167	< 5	311
L16+00N 02+50W	201 238	< 1	0.02	60	1850	< 2	< 5	< 10	31	0.26	< 10	< 10	231	< 5	318
L16+00N 03+00W	203 238	< 1	0.04	36	490	< 2	< 5	< 10	56	0.18	< 10	< 10	135	< 5	266
L16+00N 03+50W	201 238	1	0.01	68	930	< 2	5	< 10	75	0.39	< 10	< 10	879	< 5	1195
L16+00N 04+00W	203 238	< 1	0.03	23	850	< 2	< 5	< 10	31	0.20	< 10	< 10	88	< 5	178
L16+00N 04+50W	201 238	3	0.02	82	2220	8	5	< 10	155	0.16	< 10	< 10	341	< 5	143
L16+00N 05+00W	201 238	15	< 0.01	124	700	4	< 5	< 10	20	0.19	< 10	< 10	491	< 5	125
L16+00N 05+50W	201 238	3	0.01	98	1290	12	< 5	< 10	37	0.17	< 10	< 10	329	< 5	146
L16+00N 06+00W	201 238	14	0.02	201	2570	< 2	< 5	< 10	257	0.08	< 10	< 10	293	< 5	87
L16+00N 06+50W	203 238	1	0.04	15	2460	< 2	< 5	< 10	125	0.13	< 10	< 10	139	< 5	67
L16+00N 07+00W	201 238	2	0.02	110	3960	4	5	< 10	84	0.15	< 10	< 10	88	< 5	170
L16+00N 07+50W	201 238	5	0.07	65	2120	16	5	< 10	51	0.20	< 10	< 10	188	< 5	275
L16+00N 08+00W	201 238	< 1	0.02	41	600	2	5	< 10	31	0.26	< 10	< 10	93	< 5	91
L16+00N 08+50W	201 238	< 1	0.02	8	580	< 2	< 5	< 10	35	0.19	< 10	< 10	65	< 5	118
L16+00N 09+00W	201 238	13	0.01	56	430	< 2	< 5	< 10	19	0.13	< 10	< 10	247	< 5	453
L16+00N 09+50W	203 238	15	0.02	88	690	6	10	< 10	46	0.09	< 10	< 10	312	< 5	503
L16+00N 10+00W	201 238	1	0.03	31	1080	8	5	< 10	64	0.22	< 10	< 10	83	< 5	252
L16+50N 05+00W	201 238	4	0.02	10	1200	< 2	< 5	< 10	32	0.24	< 10	< 10	150	< 5	96
L17+00N 00+50E	203 238	1	0.03	30	1130	< 2	< 5	< 10	47	0.28	< 10	< 10	154	< 5	220

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOK CC: RUDY RIEPE

Page No.: 4-A

Tot. Pages: 6

Date: 14-OCT-87

Invoice #: I-8723744

P.O. # NONE

CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	PREP CODE	Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L17+00N 01+00E	201 238	15	2.98	0.2	< 5	50	< 0.5	< 2	0.84	3.5	21	55	26	4.73	< 10	< 1	0.01	< 10	0.28	476
L17+00N 01+50E	201 238	5	2.82	0.4	< 5	100	< 0.5	< 2	1.58	3.0	25	37	82	4.01	< 10	2	0.01	< 10	0.45	945
L17+00N 02+00E	201 238	25	1.23	< 0.2	< 5	70	< 0.5	< 2	0.85	1.0	8	28	17	3.74	< 10	1	0.03	< 10	0.18	506
L17+00N 02+50E	201 238	25	2.28	< 0.2	< 5	50	< 0.5	< 2	0.67	< 0.5	9	29	15	3.81	< 10	< 1	0.03	< 10	0.25	436
L17+00N 03+00E	201 238	20	1.09	< 0.2	< 5	40	< 0.5	< 2	0.22	< 0.5	1	11	7	2.49	< 10	< 1	0.02	< 10	0.12	180
L17+00N 03+50E	201 238	25	4.24	< 0.2	< 5	70	< 0.5	< 2	0.45	0.5	12	23	24	3.38	< 10	< 1	0.12	< 10	0.71	435
L17+00N 04+00E	201 238	15	5.12	0.2	< 5	110	< 0.5	< 2	0.53	< 0.5	12	21	42	3.13	< 10	< 1	0.18	< 10	0.88	547
L17+00N 04+50E	201 238	25	3.08	< 0.2	15	60	< 0.5	< 2	0.35	< 0.5	8	17	25	2.71	< 10	2	0.09	< 10	0.58	339
L17+00N 05+00E	201 238	15	1.51	< 0.2	< 5	70	< 0.5	< 2	0.29	0.5	5	14	15	2.34	< 10	< 1	0.06	< 10	0.30	447
L17+00N 00+00V	201 238	10	2.07	< 0.2	15	70	< 0.5	< 2	1.41	2.0	17	55	15	4.55	< 10	< 1	< 0.01	< 10	0.14	778
L17+00N 00+50W	201 238	15	2.48	0.2	< 5	70	< 0.5	< 2	0.77	4.5	23	51	44	4.84	< 10	< 1	0.02	< 10	0.33	1155
L17+00N 01+00W	201 238	10	4.39	0.2	< 5	140	< 0.5	< 2	1.42	5.0	29	58	39	5.05	< 10	< 1	0.01	< 10	0.20	1530
L17+00N 01+50W	201 238	25	2.86	0.2	< 5	160	< 0.5	< 2	1.56	7.0	25	67	47	4.93	< 10	1	< 0.01	< 10	0.15	1465
L17+00N 02+00W	201 238	30	4.03	0.6	10	100	< 0.5	< 2	1.76	5.0	23	57	131	5.58	< 10	< 1	< 0.01	< 10	0.11	2190
L17+00N 02+50W	201 238	10	5.39	0.4	< 5	80	< 0.5	< 2	2.31	4.5	14	209	36	5.48	< 10	2	< 0.01	< 10	0.14	809
L17+00N 03+00W	201 238	30	4.76	1.4	< 5	20	< 0.5	< 2	2.39	5.0	8	159	173	4.83	< 10	3	< 0.01	< 10	0.05	124
L17+00N 03+50W	201 238	25	4.02	< 0.2	< 5	250	< 0.5	< 2	0.72	4.5	12	32	48	3.69	< 10	< 1	0.16	10	0.86	612
L17+00N 04+00W	201 238	15	3.74	< 0.2	< 5	80	< 0.5	< 2	0.49	2.5	12	28	26	3.83	< 10	< 1	0.08	< 10	0.63	429
L17+00N 05+00W	201 238	20	2.43	0.2	5	70	< 0.5	< 2	0.46	2.0	10	70	85	2.77	< 10	2	0.07	20	0.22	251
L17+00N 05+50W	201 238	15	1.13	< 0.2	15	60	< 0.5	< 2	0.26	2.0	9	55	24	2.46	< 10	3	0.02	< 10	0.18	1050
L17+00N 06+00W	201 238	10	2.48	< 0.2	< 5	60	< 0.5	< 2	0.36	0.5	10	63	20	3.09	< 10	< 1	0.04	< 10	0.55	1020
L17+00N 06+50W	201 238	15	3.49	< 0.2	< 5	30	< 0.5	< 2	0.25	1.0	14	30	48	2.87	< 10	< 1	0.03	< 10	0.75	405
L17+00N 07+00W	201 238	< 5	3.11	< 0.2	15	160	< 0.5	< 2	0.34	< 0.5	9	79	19	2.94	< 10	1	0.11	< 10	0.71	1085
L17+00N 07+50W	201 238	< 5	0.76	< 0.2	10	40	< 0.5	< 2	0.27	0.5	4	12	10	2.92	< 10	< 1	0.02	< 10	0.18	312
L17+00N 08+00W	201 238	5	1.02	< 0.2	< 5	40	< 0.5	< 2	0.47	0.5	3	7	9	2.01	< 10	< 1	0.03	< 10	0.24	364
L17+00N 08+50W	201 238	< 5	3.36	0.2	< 5	130	< 0.5	< 2	0.20	2.5	15	49	32	4.28	< 10	1	0.05	< 10	0.72	1455
L17+00N 09+00W	201 238	70	2.72	0.2	35	70	< 0.5	4	0.24	3.0	23	43	32	4.19	< 10	< 1	0.05	< 10	0.40	2100
L17+00N 09+50W	201 238	5	2.53	< 0.2	290	90	< 0.5	4	0.21	2.0	16	46	36	3.41	< 10	< 1	0.07	< 10	0.75	926
L17+00N 10+00W	201 238	< 5	5.98	< 0.2	20	620	< 0.5	2	2.41	0.5	13	41	13	4.51	< 10	< 1	0.18	< 10	0.85	1090
L17+33N 04+30W	201 238	< 5	5.64	< 0.2	25	180	< 0.5	< 2	1.04	2.5	16	56	60	4.23	< 10	< 1	0.05	< 10	0.12	517
L17+50N 05+00W	201 238	5	3.71	0.2	35	110	< 0.5	2	2.80	2.5	14	73	52	3.45	< 10	3	0.04	< 10	0.15	519
L18+00N 00+50E	201 238	< 5	2.75	0.2	5	170	< 0.5	2	1.37	3.0	29	63	73	4.27	< 10	< 1	0.03	< 10	0.56	1020
L18+00N 01+00E	201 238	< 5	6.23	1.0	105	70	< 0.5	< 2	0.58	7.5	19	14	191	0.83	< 10	< 1	0.01	60	0.12	195
L18+00N 01+50E	201 238	< 5	0.98	< 0.2	5	70	< 0.5	< 2	0.49	0.5	11	52	33	3.84	< 10	< 1	0.01	< 10	0.19	349
L18+00N 02+00E	201 238	< 5	2.44	< 0.2	20	190	< 0.5	2	0.71	1.5	62	10	99	5.91	< 10	< 1	0.05	< 10	0.21	3000
L18+00N 02+50E	201 238	< 5	2.97	< 0.2	< 5	70	< 0.5	< 2	0.44	0.5	10	17	23	2.44	< 10	< 1	0.10	< 10	0.52	390
L18+00N 03+00E	201 238	< 5	1.63	< 0.2	5	20	< 0.5	< 2	0.29	< 0.5	6	9	7	1.89	< 10	< 1	0.03	< 10	0.20	196
L18+00N 03+50E	201 238	< 5	1.98	< 0.2	< 5	40	< 0.5	2	0.29	0.5	8	16	15	2.69	< 10	< 1	0.04	< 10	0.32	174
L18+00N 04+00E	201 238	< 5	1.84	< 0.2	< 5	30	< 0.5	< 2	0.28	< 0.5	6	8	11	1.64	< 10	< 1	0.05	< 10	0.28	271
L18+00N 04+50E	201 238	< 5	3.64	0.2	< 5	90	< 0.5	2	0.46	0.5	17	11	40	2.76	< 10	< 1	0.06	< 10	0.49	961

CERTIFICATION :



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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

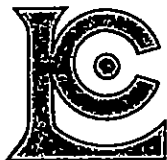
Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

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CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	FREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L17+00N 01+00E	201 238	< 1	0.03	50	620	< 2	5	< 10	28	0.36	< 10	< 10	92	< 5	163
L17+00N 01+50E	201 238	< 1	0.05	63	930	< 2	10	< 10	67	0.22	< 10	< 10	69	< 5	159
L17+00N 02+00E	201 238	< 1	0.01	6	440	< 2	< 5	< 10	19	0.27	< 10	< 10	88	< 5	130
L17+00N 02+50E	201 238	< 1	0.02	9	720	< 2	5	< 10	30	0.25	< 10	< 10	107	< 5	84
L17+00N 03+00E	201 238	< 1	0.01	1	730	< 2	< 5	< 10	21	0.10	< 10	< 10	70	< 5	40
L17+00N 03+50E	201 238	< 1	0.03	9	670	8	< 5	< 10	26	0.20	< 10	< 10	69	< 5	94
L17+00N 04+00E	201 238	< 1	0.04	10	780	< 2	5	< 10	29	0.22	< 10	< 10	63	< 5	65
L17+00N 04+50E	201 238	< 1	0.02	8	450	6	< 5	< 10	24	0.17	< 10	< 10	69	< 5	37
L17+00N 05+00E	201 238	< 1	0.02	5	340	4	< 5	< 10	23	0.16	< 10	< 10	60	< 5	45
L17+00N 00+00W	201 238	< 1	0.01	15	780	< 2	< 5	< 10	19	0.31	< 10	< 10	150	< 5	120
L17+00N 00+50W	201 238	1	0.02	39	1710	< 2	5	< 10	33	0.26	< 10	< 10	150	< 5	233
L17+00N 01+00W	201 238	< 1	0.02	42	3690	< 2	5	< 10	43	0.20	< 10	< 10	146	< 5	268
L17+00N 01+50W	201 238	1	0.02	61	1400	2	< 5	< 10	45	0.27	< 10	< 10	157	< 5	358
L17+00N 02+00W	201 238	< 1	0.02	94	2750	2	5	< 10	56	0.19	< 10	< 10	124	< 5	320
L17+00N 02+50W	201 238	1	0.02	59	2820	< 2	< 5	< 10	93	0.22	< 10	< 10	610	< 5	835
L17+00N 03+00W	201 238	8	0.01	125	800	< 2	< 5	< 10	72	0.35	< 10	< 10	1070	< 5	1100
L17+00N 03+50W	201 238	7	0.04	32	550	< 2	< 5	< 10	67	0.25	< 10	< 10	117	< 5	157
L17+00N 04+00W	201 238	8	0.03	29	550	< 2	< 5	< 10	38	0.24	< 10	< 10	104	< 5	109
L17+00N 05+00W	201 238	13	0.01	198	1270	< 2	< 5	< 10	139	0.12	< 10	< 10	490	< 5	151
L17+00N 05+50W	201 238	6	< 0.01	84	800	22	5	< 10	34	0.15	< 10	< 10	323	< 5	120
L17+00N 06+00W	201 238	< 1	0.03	17	1700	12	< 5	< 10	32	0.15	< 10	< 10	82	< 5	76
L17+00N 06+50W	201 238	2	< 0.01	38	890	30	5	< 10	24	0.15	< 10	< 10	106	< 5	79
L17+00N 07+00W	201 238	< 1	0.01	14	3560	20	< 5	< 10	49	0.11	< 10	< 10	42	< 5	138
L17+00N 07+50W	201 238	1	0.01	16	610	16	5	< 10	20	0.20	< 10	< 10	82	< 5	53
L17+00N 08+00W	201 238	< 1	0.02	1	450	18	< 5	< 10	39	0.14	< 10	< 10	56	< 5	54
L17+00N 08+50W	201 238	11	0.01	103	2340	2	5	< 10	33	0.13	< 10	< 10	344	< 5	182
L17+00N 09+00W	201 238	22	0.01	98	2860	12	< 5	< 10	25	0.08	< 10	< 10	264	< 5	356
L17+00N 09+50W	201 238	21	0.01	134	1450	10	5	10	23	0.08	< 10	< 10	308	< 5	288
L17+00N 10+00W	201 238	3	0.16	5	2670	4	< 5	10	616	0.14	< 10	< 10	34	< 5	112
L17+33N 04+30W	201 238	20	0.04	193	1430	2	< 5	20	256	0.18	< 10	< 10	337	< 5	132
L17+50N 05+00W	201 238	21	0.04	201	3520	< 2	< 5	10	242	0.14	< 10	< 10	313	< 5	114
L18+00N 00+50E	201 238	1	0.05	77	1210	< 2	< 5	10	92	0.21	< 10	< 10	77	< 5	162
L18+00N 01+00E	201 238	1	0.02	48	3920	2	< 5	10	37	0.05	< 10	< 10	33	< 5	23
L18+00N 01+50E	201 238	1	0.03	14	830	< 2	< 5	< 10	31	0.19	< 10	< 10	52	< 5	55
L18+00N 02+00E	201 238	< 1	0.02	29	2050	6	< 5	10	46	0.13	< 10	< 10	44	< 5	229
L18+00N 02+50E	201 238	< 1	0.03	12	480	2	< 5	< 10	25	0.19	< 10	< 10	60	< 5	85
L18+00N 03+00E	201 238	< 1	0.02	3	240	4	< 5	< 10	19	0.13	< 10	< 10	45	< 5	47
L18+00N 03+50E	201 238	1	0.02	8	250	6	< 5	< 10	26	0.19	< 10	< 10	94	< 5	28
L18+00N 04+00E	201 238	< 1	0.02	4	480	6	< 5	< 10	22	0.09	< 10	< 10	42	< 5	30
L18+00N 04+50E	201 238	< 1	0.03	10	740	20	< 5	< 10	33	0.13	< 10	< 10	61	< 5	73

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
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PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

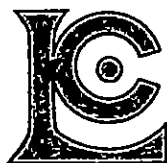
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Page No.: 5-A
Tot. Pages: 6
Date: 14-OCT-87
Invoice #: I-8723744
P.O. # NONE

CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	PREP CODE	Au ppb FATAA	Al %	Ag ppm	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L18+OON 05+0OE	201 238	< 5	2.68	< 0.2	10	70	< 0.5	< 2	0.45	1.0	22	17	47	2.87	< 10	< 1	0.03	< 10	0.48	2310
L18+OON 00+0OW	201 238	< 5	3.24	< 0.2	5	130	< 0.5	< 2	1.08	1.5	24	48	39	4.12	< 10	< 1	0.01	< 10	0.20	950
L18+OON 00+5OW	201 238	< 5	2.35	0.2	5	70	< 0.5	< 2	0.84	4.5	20	68	35	5.18	< 10	< 1	0.01	< 10	0.35	1160
L18+OON 01+0OW	201 238	< 5	4.61	0.4	< 5	60	< 0.5	< 2	0.81	3.0	22	105	38	5.15	< 10	< 1	0.01	< 10	0.33	822
L18+OON 01+5OW	201 238	< 5	3.17	< 0.2	5	80	< 0.5	2	0.76	3.0	24	42	59	4.16	< 10	< 1	0.02	< 10	0.28	1490
L18+OON 02+0OW	201 238	< 5	2.78	0.2	< 5	80	< 0.5	< 2	1.87	5.0	26	61	37	4.01	< 10	< 1	< 0.01	< 10	0.12	624
L18+OON 02+5OW	201 238	< 5	3.58	0.2	10	100	< 0.5	< 2	1.32	3.5	22	71	55	4.95	< 10	< 1	0.01	< 10	0.13	827
L18+OON 03+0OW	201 238	< 5	3.20	0.4	5	70	< 0.5	< 2	0.47	3.0	18	50	100	3.71	< 10	< 1	0.05	10	0.77	822
L18+OON 03+5OW	203 238	< 5	2.22	0.4	5	20	< 0.5	< 2	1.11	2.0	7	163	28	2.77	< 10	< 1	< 0.01	< 10	0.09	244
L18+OON 04+0OW	201 238	< 5	0.35	< 0.2	< 5	20	< 0.5	< 2	0.22	1.0	3	11	17	1.59	< 10	< 1	< 0.01	< 10	0.04	86
L18+OON 04+5OW	201 238	< 5	2.87	0.6	10	50	< 0.5	2	1.62	26.0	8	39	70	2.98	< 10	< 1	0.03	< 10	0.20	836
L18+OON 05+0OW	201 238	< 5	3.06	< 0.2	25	140	< 0.5	2	0.48	1.0	13	68	23	3.56	< 10	< 1	0.04	< 10	0.17	427
L18+OON 05+5OW	201 238	15	2.60	0.2	55	180	< 0.5	2	0.37	2.0	10	80	37	3.26	< 10	1	0.04	10	0.34	226
L18+OON 06+0OW	201 238	< 5	3.69	< 0.2	20	170	< 0.5	2	0.29	1.5	17	50	37	2.71	< 10	< 1	0.16	10	1.05	286
L18+OON 06+5OW	201 238	10	2.95	0.2	125	80	< 0.5	2	0.26	1.5	14	43	31	3.56	< 10	< 1	0.12	10	0.81	1165
L18+OON 07+0OW	201 238	< 5	3.37	0.2	10	80	< 0.5	2	0.63	1.0	21	23	48	4.12	< 10	< 1	0.05	< 10	0.84	1915
L18+OON 07+5OW	201 238	< 5	4.70	0.2	30	80	< 0.5	2	0.28	0.5	15	35	50	3.62	< 10	< 1	0.13	10	1.05	578
L18+OON 08+0OW	201 238	< 5	3.15	0.2	10	80	< 0.5	< 2	0.99	3.0	14	16	51	3.73	< 10	< 1	0.07	< 10	0.85	2220
L18+OON 08+5OW	201 238	80	2.74	< 0.2	10	100	< 0.5	< 2	0.40	1.0	18	25	20	3.18	< 10	< 1	0.03	< 10	0.59	755
L18+OON 09+0OW	201 238	40	2.43	0.4	50	200	< 0.5	2	1.26	3.5	20	41	61	2.90	< 10	< 1	0.07	< 10	0.81	1805
L18+OON 09+5OW	201 238	< 5	2.70	< 0.2	20	150	< 0.5	2	0.35	1.5	18	29	28	3.56	< 10	< 1	0.05	< 10	0.65	1735
L18+OON 10+0OW	201 238	< 5	1.86	< 0.2	45	60	< 0.5	2	0.20	2.5	24	51	45	4.82	< 10	< 1	0.04	< 10	0.40	1215
L18+OON 05+0OW	201 238	< 5	3.96	0.4	70	110	< 0.5	< 2	1.03	8.5	19	53	70	3.78	< 10	< 1	0.13	10	0.83	745
L18+OON 10+0OW	217 238	< 5	3.13	< 0.2	40	160	< 0.5	2	0.61	2.5	55	67	246	5.42	< 10	< 1	0.04	< 10	0.71	>10000
L19+OON 00+5OE	203 238	< 5	2.24	< 0.2	30	70	< 0.5	2	0.92	2.5	45	98	187	5.40	< 10	< 1	0.04	< 10	0.19	1100
L19+OON 01+0OE	203 238	< 5	0.96	< 0.2	< 5	180	< 0.5	< 2	0.52	1.5	14	78	19	2.66	< 10	< 1	0.32	< 10	0.46	1515
L19+OON 01+5OE	201 238	< 5	2.69	< 0.2	70	80	< 0.5	4	0.53	4.0	20	25	45	4.15	< 10	< 1	0.08	< 10	0.49	1115
L19+OON 02+0OE	201 238	< 5	2.99	< 0.2	15	110	< 0.5	2	0.36	2.5	10	14	34	2.80	< 10	< 1	0.06	< 10	0.33	385
L19+OON 02+5OE	201 238	< 5	4.10	< 0.2	< 5	130	< 0.5	2	0.65	0.5	13	24	36	3.02	< 10	< 1	0.23	< 10	1.03	478
L19+OON 03+0OE	201 238	< 5	2.45	< 0.2	< 5	40	< 0.5	< 2	0.21	< 0.5	6	14	15	2.06	< 10	< 1	0.04	< 10	0.28	118
L19+OON 03+5OE	201 238	< 5	2.58	< 0.2	< 5	40	< 0.5	< 2	0.32	< 0.5	8	14	13	2.49	< 10	< 1	0.06	< 10	0.36	300
L19+OON 04+0OE	203 238	< 5	0.84	< 0.2	< 5	30	< 0.5	2	0.53	0.5	8	75	37	3.51	< 10	< 1	0.02	< 10	0.27	280
L19+OON 00+0OW	201 238	< 5	4.65	0.2	10	70	< 0.5	< 2	1.05	1.5	24	53	66	4.38	< 10	< 1	0.02	< 10	0.35	656
L19+OON 00+5OW	201 238	15	2.04	< 0.2	15	120	< 0.5	2	0.72	4.0	24	42	31	5.49	< 10	< 1	0.02	< 10	0.31	1580
L19+OON 01+0OW	217 238	< 5	3.39	0.2	35	110	< 0.5	2	3.64	2.0	21	137	55	5.53	< 10	< 1	0.06	< 10	1.10	1135
L19+OON 01+5OW	201 238	< 5	2.63	0.2	10	40	< 0.5	2	0.89	5.5	27	95	59	5.52	< 10	< 1	< 0.01	< 10	0.21	815
L19+OON 02+0OW	201 238	< 5	3.19	0.4	< 5	20	< 0.5	< 2	0.69	2.0	15	46	80	3.48	< 10	< 1	< 0.01	< 10	0.06	466
L19+OON 02+5OW	201 238	< 5	1.19	< 0.2	5	50	< 0.5	< 2	0.44	3.0	8	28	29	2.88	< 10	< 1	0.02	< 10	0.14	274
L19+OON 03+0OW	201 238	< 5	4.07	< 0.2	5	50	< 0.5	< 2	0.42	6.0	15	48	48	4.02	< 10	< 1	0.03	< 10	0.53	609
L19+OON 03+5OW	201 238	< 5	2.52	0.4	15	20	< 0.5	< 2	0.20	3.0	10	105	23	4.68	< 10	< 1	< 0.01	< 10	0.12	343

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 934-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
 VANCOUVER, B.C.
 V6K 3M3

Project: QUADRA

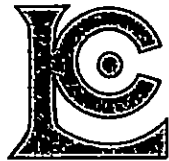
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Page No. :5-B
 Tot. Pages:6
 Date :14-OCT-87
 Invoice #:I-8723744
 P.O. # :NONE

CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	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
L18+00N 05+00E	201 238	< 1	0.05	12	720	4	< 5	< 10	33	0.07	< 10	< 10	59	< 5	87
L18+00N 00+00W	201 238	1	0.04	51	910	< 2	< 5	< 10	50	0.36	< 10	< 10	67	< 5	138
L18+00N 00+50W	201 238	5	0.02	37	680	6	< 5	< 10	27	0.48	< 10	< 10	225	< 5	410
L18+00N 01+00W	201 238	1	0.02	54	1250	6	< 5	< 10	24	0.34	< 10	< 10	239	< 5	244
L18+00N 01+50W	201 238	2	0.04	43	2330	8	< 5	< 10	49	0.20	< 10	< 10	121	< 5	250
L18+00N 02+00W	201 238	2	0.02	41	2220	< 2	< 5	< 10	45	0.21	< 10	< 10	205	< 5	322
L18+00N 02+50W	201 238	4	0.02	55	1150	2	< 5	< 10	50	0.30	< 10	< 10	192	< 5	318
L18+00N 03+00W	201 238	1	0.01	106	690	< 2	< 5	< 10	19	0.28	< 10	< 10	128	< 5	441
L18+00N 03+50W	203 238	5	0.01	39	560	2	< 5	10	24	0.20	< 10	< 10	657	< 5	420
L18+00N 04+00W	201 238	1	0.01	6	80	10	< 5	< 10	18	0.12	< 10	< 10	77	< 5	45
L18+00N 04+50W	201 238	4	0.02	127	1020	< 2	< 5	10	102	0.14	< 10	< 10	209	< 5	1410
L18+00N 05+00W	201 238	6	0.01	89	3890	4	< 5	< 10	52	0.12	< 10	< 10	235	< 5	168
L18+00N 05+50W	201 238	15	0.01	151	830	6	5	10	19	0.15	< 10	< 10	516	< 5	181
L18+00N 06+00W	201 238	12	0.02	161	2040	10	< 5	< 10	149	0.14	< 10	< 10	274	< 5	198
L18+00N 06+50W	201 238	7	0.01	128	1310	38	< 5	10	46	0.17	< 10	< 10	285	< 5	169
L18+00N 07+00W	201 238	1	0.11	20	930	38	< 5	10	64	0.27	< 10	< 10	132	< 5	141
L18+00N 07+50W	201 238	12	0.02	75	1470	14	< 5	< 10	41	0.17	< 10	< 10	132	< 5	119
L18+00N 08+00W	201 238	1	0.05	90	1180	10	< 5	< 10	74	0.21	< 10	< 10	72	< 5	229
L18+00N 08+50W	201 238	2	0.01	33	2220	10	< 5	10	30	0.13	< 10	< 10	107	< 5	187
L18+00N 09+00W	201 238	13	0.02	142	2810	6	< 5	< 10	137	0.08	< 10	< 10	244	< 5	569
L18+00N 09+50W	201 238	9	0.02	53	2530	10	< 5	< 10	36	0.08	< 10	< 10	132	< 5	256
L18+00N 10+00W	201 238	18	< 0.01	87	880	20	< 5	< 10	23	0.09	< 10	< 10	343	< 5	453
L18+50N 05+00W	201 238	3	0.05	431	420	6	< 5	10	64	0.28	< 10	< 10	162	< 5	1790
L18+50N 10+00W	217 238	5	0.04	29	3950	12	< 5	20	57	0.16	< 10	< 10	127	< 5	248
L19+00N 00+50E	203 238	3	0.03	41	1060	16	5	10	30	0.27	< 10	< 10	105	< 5	140
L19+00N 01+00E	203 238	1	0.04	6	710	26	5	10	45	0.18	< 10	< 10	51	< 5	117
L19+00N 01+50E	201 238	1	0.03	79	1200	12	< 5	10	44	0.21	< 10	< 10	75	< 5	365
L19+00N 02+00E	201 238	2	0.02	18	490	14	< 5	10	25	0.14	< 10	< 10	67	< 5	60
L19+00N 02+50E	201 238	< 1	0.05	12	470	< 2	< 5	10	32	0.25	< 10	< 10	74	< 5	58
L19+00N 03+00E	201 238	< 1	0.02	8	340	4	< 5	10	19	0.14	< 10	< 10	51	< 5	17
L19+00N 03+50E	201 238	< 1	0.02	5	340	4	< 5	< 10	22	0.17	< 10	< 10	66	< 5	44
L19+00N 04+00E	203 238	< 1	0.09	12	300	22	< 5	< 10	42	0.09	< 10	< 10	139	< 5	33
L19+00N 00+00W	201 238	1	0.03	45	1290	4	< 5	< 10	37	0.30	< 10	< 10	108	< 5	120
L19+00N 00+50W	201 238	6	0.02	28	1280	6	< 5	10	31	0.29	< 10	< 10	204	< 5	358
L19+00N 01+00W	217 238	1	0.05	31	830	4	< 5	20	68	0.35	< 10	< 10	242	< 5	192
L19+00N 01+50W	201 238	3	0.02	45	610	2	< 5	10	25	0.49	< 10	< 10	282	< 5	287
L19+00N 02+00W	201 238	4	0.06	28	720	< 2	< 5	< 10	53	0.29	< 10	< 10	128	< 5	121
L19+00N 02+50W	201 238	2	0.01	26	410	16	< 5	< 10	19	0.20	< 10	< 10	101	< 5	116
L19+00N 03+00W	201 238	5	0.02	112	790	6	< 5	10	31	0.23	< 10	< 10	313	< 5	975
L19+00N 03+50W	201 238	9	0.01	52	1110	10	5	< 10	14	0.27	< 10	< 10	679	< 5	463

CERTIFICATION :



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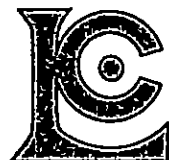
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CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L19+00N 04+00V	201 238	< 5	3.31	0.2	30	50	0.5	< 2	0.33	3.5	14	98	60	3.76	< 10	1	0.01	< 10	0.22	659
L19+00N 04+50V	201 238	< 5	3.59	0.2	5	130	0.5	4	1.77	32.0	16	41	71	3.48	< 10	1	0.09	< 10	0.61	1015
L19+00N 05+00V	201 238	< 5	3.21	< 0.2	< 5	300	0.5	2	1.26	2.5	14	27	42	3.29	< 10	< 1	0.32	< 10	1.11	560
L19+00N 05+50V	201 238	10	1.78	< 0.2	5	640	< 0.5	2	0.30	0.5	10	49	14	3.35	< 10	< 1	0.03	< 10	0.32	301
L19+00N 06+00V	201 238	< 5	3.62	< 0.2	5	90	0.5	4	0.29	0.5	12	22	21	3.43	< 10	< 1	0.05	< 10	0.49	310
L19+00N 06+50V	201 238	< 5	3.50	< 0.2	< 5	60	0.5	2	0.93	1.0	7	9	13	1.86	< 10	< 1	0.06	< 10	0.51	559
L19+00N 07+00V	201 238	< 5	2.52	< 0.2	5	170	0.5	2	0.47	0.5	10	20	14	3.12	< 10	< 1	0.05	< 10	0.54	1120
L19+00N 07+50V	201 238	< 5	2.32	< 0.2	10	50	< 0.5	2	0.35	< 0.5	7	14	17	3.03	< 10	< 1	0.03	< 10	0.36	483
L19+00N 08+00V	201 238	< 5	2.21	< 0.2	5	50	< 0.5	2	0.36	< 0.5	11	17	14	3.13	< 10	< 1	0.04	< 10	0.49	484
L19+00N 08+50V	201 238	< 5	2.57	< 0.2	20	80	0.5	2	0.62	0.5	10	13	17	3.09	< 10	< 1	0.04	< 10	0.45	1350
L19+00N 09+00V	201 238	< 5	2.39	< 0.2	10	160	0.5	2	0.63	4.0	15	44	34	2.97	< 10	< 1	0.09	10	0.83	1685
L19+00N 09+50V	201 238	< 5	1.08	< 0.2	15	70	< 0.5	< 2	0.21	1.5	8	20	14	2.20	< 10	< 1	0.03	< 10	0.22	535
L19+00N 10+00V	201 238	< 5	5.21	< 0.2	150	230	< 0.5	< 2	0.78	3.0	19	25	45	5.03	< 10	< 1	0.16	< 10	1.69	1060
L19+50N 05+00V	201 238	< 5	4.49	< 0.2	< 5	50	< 0.5	2	0.37	2.0	13	21	23	3.98	< 10	< 1	0.05	< 10	0.52	414
L20+00N 00+00V	201 238	< 5	3.43	< 0.2	30	90	0.5	< 2	0.65	4.5	26	69	77	4.43	< 10	< 1	0.01	< 10	0.24	1280
L20+00N 00+50V	201 238	< 5	4.65	< 0.2	15	90	0.5	< 2	0.82	3.0	26	57	72	4.11	< 10	< 1	0.01	< 10	0.17	922
L20+00N 01+00V	201 238	< 5	5.24	0.2	10	50	0.5	< 2	0.89	3.0	24	69	67	4.37	< 10	< 1	0.01	< 10	0.26	368
L20+00N 01+50V	201 238	< 5	3.71	< 0.2	10	60	0.5	< 2	0.57	3.5	16	65	30	4.21	< 10	1	0.01	< 10	0.19	756
L20+00N 02+00V	201 238	< 5	0.09	< 0.2	< 5	10	< 0.5	< 2	1.80	3.0	< 1	1	10	0.12	< 10	< 1	0.01	< 10	0.05	28
L20+00N 03+00V	201 238	< 5	4.63	0.6	15	40	0.5	2	0.44	3.5	12	53	29	3.41	< 10	< 1	0.02	10	0.48	208
L20+00N 03+50V	201 238	< 5	3.10	0.2	25	30	< 0.5	2	0.19	1.5	4	54	28	3.48	< 10	< 1	0.01	< 10	0.15	214
L20+00N 04+00V	201 238	< 5	2.85	0.4	35	70	< 0.5	< 2	0.70	8.0	15	119	55	3.69	< 10	1	0.01	< 10	0.21	2050
L20+00N 04+50V	201 238	< 5	4.33	< 0.2	5	50	0.5	< 2	0.58	42.0	9	38	35	3.69	< 10	< 1	0.03	10	0.41	1245
L20+00N 05+00V	201 238	< 5	4.87	< 0.2	< 5	60	1.5	< 2	0.41	2.5	15	26	55	4.75	< 10	< 1	0.05	< 10	0.75	507
L20+00N 05+50V	201 238	< 5	4.35	0.2	5	240	1.0	< 2	1.27	1.5	26	139	71	4.96	< 10	< 1	0.04	10	1.38	628
L20+00N 06+00V	201 238	< 5	1.45	< 0.2	5	2060	0.5	< 2	0.34	0.5	8	31	18	2.11	< 10	1	0.10	< 10	0.44	2010
L20+00N 06+50V	201 238	< 5	0.90	< 0.2	< 5	80	< 0.5	< 2	0.31	0.5	2	9	5	2.27	< 10	< 1	0.02	< 10	0.19	202
L20+00N 07+00V	201 238	< 5	4.61	< 0.2	< 5	150	0.5	< 2	0.52	0.5	13	19	31	3.54	< 10	< 1	0.11	< 10	0.69	968
L20+00N 07+50V	201 238	< 5	0.90	< 0.2	< 5	20	< 0.5	< 2	0.28	0.5	< 1	12	4	1.62	< 10	< 1	0.02	< 10	0.10	158
L20+00N 08+00V	201 238	< 5	2.38	< 0.2	< 5	50	0.5	< 2	0.27	0.5	6	9	20	2.82	< 10	1	0.03	< 10	0.41	554
L20+00N 08+50V	201 238	< 5	1.40	< 0.2	5	80	< 0.5	< 2	0.17	0.5	7	21	21	2.45	< 10	< 1	0.02	< 10	0.37	885
L20+00N 09+00V	201 238	< 5	1.80	< 0.2	< 5	30	< 0.5	< 2	0.23	1.0	4	11	8	2.45	< 10	3	0.03	< 10	0.23	751
L20+00N 09+50V	201 238	< 5	1.58	< 0.2	35	80	0.5	< 2	0.20	1.5	14	33	31	3.87	< 10	3	0.04	< 10	0.39	850
L20+00N 10+00V	201 238	< 5	0.36	< 0.2	15	190	< 0.5	< 2	>15.00	< 0.5	2	5	4	0.38	< 10	1	0.01	< 10	0.23	1695
L20+50N 05+00V	201 238	< 5	5.33	0.6	< 5	40	1.0	< 2	1.46	4.0	9	38	35	3.62	< 10	< 1	0.02	< 10	0.40	343

CERTIFICATION :



Chemex Labs Ltd.

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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK CC: RUDY RIEPE

Page No. :6-B

Tot. Pages:6

Date :14-OCT-87

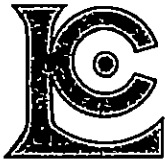
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P.O. # :NONE

CERTIFICATE OF ANALYSIS A8723744

SAMPLE DESCRIPTION	PREP CODE	Mb ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L19+00N 04+00W	201 238	10	0.02	79	1560	4	5	10	54	0.21	< 10	< 10	510	< 5	620
L19+00N 04+50W	201 238	4	0.04	219	1500	2	5	10	133	0.17	< 10	< 10	121	< 5	2850
L19+00N 05+00W	201 238	1	0.07	28	610	4	< 5	< 10	126	0.25	< 10	< 10	112	< 5	102
L19+00N 05+50W	201 238	4	0.02	32	880	4	< 5	< 10	35	0.17	< 10	< 10	181	< 5	126
L19+00N 06+00W	201 238	2	0.02	23	2580	4	< 5	< 10	28	0.18	< 10	< 10	123	< 5	150
L19+00N 06+50W	201 238	< 1	0.10	12	1320	12	< 5	< 10	191	0.13	< 10	< 10	41	< 5	94
L19+00N 07+00W	201 238	1	0.02	17	2370	16	< 5	< 10	51	0.15	< 10	< 10	62	< 5	93
L19+00N 07+50W	201 238	2	0.02	10	1160	14	< 5	< 10	29	0.15	< 10	< 10	83	< 5	64
L19+00N 08+00W	201 238	2	0.02	7	1180	12	< 5	< 10	26	0.21	< 10	< 10	88	< 5	79
L19+00N 08+50W	201 238	< 1	0.03	8	2250	6	5	< 10	50	0.14	< 10	< 10	71	< 5	80
L19+00N 09+00W	201 238	12	0.02	130	1670	16	< 5	< 10	98	0.09	< 10	< 10	263	< 5	485
L19+00N 09+50W	201 238	11	0.01	35	560	14	< 5	< 10	21	0.03	< 10	< 10	167	< 5	131
L19+00N 10+00W	201 238	4	0.12	40	1150	4	< 5	< 10	92	0.23	< 10	< 10	197	< 5	490
L19+50N 05+00W	201 238	5	0.03	19	1500	12	< 5	< 10	33	0.20	< 10	< 10	105	< 5	124
L20+00N 00+00W	201 238	6	0.02	58	750	2	< 5	< 10	30	0.29	< 10	< 10	161	< 5	241
L20+00N 00+50W	201 238	3	0.02	52	1010	6	< 5	< 10	40	0.28	< 10	< 10	109	< 5	123
L20+00N 01+00W	201 238	3	0.02	69	1040	8	< 5	< 10	33	0.32	< 10	< 10	156	< 5	150
L20+00N 01+50W	201 238	2	0.02	52	890	< 2	< 5	< 10	17	0.32	< 10	< 10	208	< 5	309
L20+00N 02+00W	201 238	4	0.01	11	410	36	< 5	< 10	62	< 0.01	< 10	< 10	8	< 5	50
L20+00N 03+00W	201 238	12	0.02	74	390	< 2	5	< 10	72	0.25	< 10	< 10	233	< 5	686
L20+00N 03+50W	201 238	11	0.01	43	930	6	5	< 10	34	0.21	< 10	< 10	476	< 5	371
L20+00N 04+00W	201 238	8	0.06	88	1740	30	10	< 10	173	0.21	< 10	< 10	589	< 5	714
L20+00N 04+50W	201 238	1	0.04	103	2270	6	< 5	< 10	69	0.15	< 10	< 10	145	< 5	1450
L20+00N 05+00W	201 238	1	0.03	100	1340	< 2	5	< 10	34	0.24	< 10	< 10	122	< 5	246
L20+00N 05+50W	201 238	10	0.15	118	2130	14	10	< 10	150	0.21	< 10	< 10	315	< 5	98
L20+00N 06+00W	201 238	4	0.01	71	2300	10	< 5	< 10	62	0.09	< 10	< 10	129	< 5	101
L20+00N 06+50W	201 238	< 1	0.01	4	410	2	< 5	< 10	31	0.17	< 10	< 10	69	< 5	34
L20+00N 07+00W	201 238	< 1	0.02	16	1820	< 2	< 5	< 10	29	0.20	< 10	< 10	85	< 5	129
L20+00N 07+50W	201 238	< 1	0.01	1	590	10	< 5	< 10	24	0.12	< 10	< 10	50	< 5	23
L20+00N 08+00W	201 238	< 1	0.02	6	960	12	5	< 10	24	0.14	< 10	< 10	68	< 5	54
L20+00N 08+50W	201 238	7	< 0.01	37	1060	16	< 5	< 10	22	0.14	< 10	< 10	113	< 5	100
L20+00N 09+00W	201 238	< 1	0.01	4	1320	< 2	5	< 10	19	0.12	< 10	< 10	73	< 5	83
L20+00N 09+50W	201 238	20	< 0.01	82	1740	10	< 5	< 10	24	0.07	< 10	< 10	224	< 5	237
L20+00N 10+00W	201 238	< 1	0.01	4	1070	8	15	< 10	2070	< 0.01	< 10	< 10	3	< 5	28
L20+50N 05+00W	201 238	< 1	0.03	96	990	2	< 5	< 10	89	0.18	< 10	< 10	140	< 5	365

CERTIFICATION :



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To: ARCTEX ENGINEERING

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Project: QUADRA

Comments: CC: PAUL KALLOCK

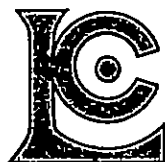
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Page No.: 1-A
 Tot. Pages: 5
 Date: 14-OCT-87
 Invoice #: I-8723745
 P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723745

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Pb %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L21+OON 00+OOW	201 238	< 5	3.91	0.2	< 5	100	1.0	< 2	0.96	5.0	29	88	62	5.82	< 10	2	0.01	< 10	0.22	1950
L21+OON 00+5OW	201 238	< 5	1.97	< 0.2	< 5	110	0.5	< 2	0.62	0.5	12	24	22	4.02	< 10	2	0.06	< 10	0.48	1425
L21+OON 01+OOW	201 238	< 5	3.99	0.2	< 5	90	1.0	< 2	0.95	3.0	29	59	69	5.28	< 10	< 1	0.01	< 10	0.59	1345
L21+OON 01+5OW	201 238	< 5	2.62	0.2	< 5	80	1.0	< 2	1.19	3.5	24	49	47	4.71	< 10	1	0.01	< 10	0.09	1795
L21+OON 03+OOW	201 238	5	2.58	1.6	< 5	10	0.5	< 2	0.25	1.0	3	76	48	3.98	< 10	5	< 0.01	< 10	0.09	140
L21+OON 03+5OW	201 238	5	4.18	2.0	< 5	30	1.0	< 2	0.21	1.5	8	75	46	3.47	< 10	< 1	0.01	< 10	0.23	413
L21+OON 04+OOW	201 238	10	4.59	0.6	< 5	20	1.0	< 2	0.29	4.0	12	130	101	4.03	< 10	4	0.01	< 10	0.30	546
L21+OON 04+5OW	201 238	< 5	2.55	< 0.2	< 5	40	0.5	< 2	0.18	2.0	10	22	19	3.70	< 10	< 1	0.02	< 10	0.33	552
L21+OON 05+OOW	201 238	< 5	3.11	< 0.2	20	80	1.0	< 2	0.29	1.5	7	26	15	3.15	< 10	< 1	0.02	< 10	0.24	786
L21+OON 05+5OW	201 238	< 5	1.63	< 0.2	5	100	0.5	< 2	0.20	0.5	6	40	21	2.14	< 10	< 1	0.02	< 10	0.34	235
L21+OON 06+OOW	201 238	< 5	1.22	< 0.2	< 5	40	0.5	< 2	0.29	< 0.5	4	14	6	2.64	< 10	< 1	0.03	< 10	0.27	398
L21+OON 06+5OW	201 238	< 5	2.89	< 0.2	< 5	560	0.5	< 2	0.63	1.5	15	34	27	2.88	< 10	< 1	0.06	< 10	0.59	1915
L21+OON 07+OOW	201 238	< 5	1.43	< 0.2	5	70	0.5	< 2	0.24	0.5	5	11	10	2.31	< 10	< 1	0.03	< 10	0.32	1350
L21+OON 07+5OW	201 238	< 5	2.30	< 0.2	< 5	80	0.5	< 2	0.40	< 0.5	7	14	18	2.70	< 10	< 1	0.05	< 10	0.38	561
L21+OON 08+OOW	201 238	< 5	1.68	< 0.2	20	40	0.5	< 2	0.26	< 0.5	6	10	10	2.53	< 10	< 1	0.03	< 10	0.18	2080
L21+OON 08+5OW	201 238	< 5	1.71	< 0.2	10	110	0.5	< 2	0.56	0.5	12	5	45	2.93	< 10	< 1	0.05	< 10	0.40	1505
L21+OON 09+OOW	201 238	< 5	2.56	< 0.2	40	100	0.5	< 2	0.29	< 0.5	19	16	32	4.66	< 10	2	0.04	< 10	0.66	1210
L21+OON 09+5OW	201 238	< 5	4.01	< 0.2	< 5	280	0.5	< 2	0.76	1.0	17	24	28	2.67	< 10	< 1	0.11	< 10	1.30	2360
L21+OON 10+OOW	201 238	< 5	4.19	< 0.2	< 5	400	0.5	< 2	0.83	1.0	12	16	15	2.53	< 10	3	0.07	10	0.67	3570
L21+SON 05+OOW	201 238	< 5	4.10	0.4	30	1750	1.0	< 2	1.27	4.0	18	141	79	4.58	< 10	4	0.05	10	0.33	691
L22+OON 00+OOW	201 238	< 5	2.48	< 0.2	< 5	90	0.5	< 2	0.88	1.5	21	33	49	6.14	< 10	2	0.02	< 10	0.64	763
L22+OON 00+5OW	201 238	< 5	3.13	< 0.2	< 5	40	0.5	< 2	0.83	2.0	23	43	55	3.47	< 10	3	0.01	< 10	0.16	949
L22+OON 01+OOW	201 238	< 5	3.59	< 0.2	< 5	60	0.5	< 2	0.79	3.0	22	65	42	4.81	< 10	< 1	< 0.01	< 10	0.15	884
L22+OON 01+5OW	201 238	< 5	4.31	< 0.2	25	80	0.5	< 2	0.76	3.5	18	74	29	4.93	< 10	1	< 0.01	< 10	0.08	1475
L22+OON 02+OOW	201 238	5	3.72	< 0.2	< 5	130	0.5	< 2	0.50	1.0	12	29	51	3.83	< 10	1	0.05	< 10	0.65	463
L22+OON 03+5OW	201 238	< 5	0.32	< 0.2	< 5	20	< 0.5	< 2	0.21	1.5	< 1	11	27	1.64	< 10	< 1	< 0.01	< 10	0.03	88
L22+OON 04+OOW	201 238	< 5	1.73	< 0.2	< 5	30	< 0.5	< 2	0.24	0.5	2	20	13	4.13	< 10	< 1	0.02	< 10	0.15	372
L22+OON 04+5OW	201 238	< 5	4.97	0.8	30	30	0.5	2	0.37	6.0	15	148	130	4.96	< 10	4	0.02	10	0.33	1190
L22+OON 05+OOW	201 238	< 5	4.61	< 0.2	< 5	160	0.5	< 2	0.48	4.5	13	32	26	4.05	< 10	2	0.10	< 10	0.72	775
L22+OON 05+5OW	201 238	< 5	1.44	< 0.2	< 5	70	< 0.5	< 2	0.36	0.5	6	23	11	2.41	< 10	< 1	0.04	< 10	0.33	502
L22+OON 06+OOW	201 238	< 5	3.10	< 0.2	25	580	0.5	< 2	0.28	0.5	12	52	24	2.49	< 10	< 1	0.19	< 10	0.94	908
L22+OON 06+5OW	201 238	< 5	2.86	< 0.2	< 5	80	< 0.5	< 2	1.59	0.5	26	74	47	3.32	< 10	< 1	0.03	< 10	0.78	1615
L22+OON 07+OOW	201 238	< 5	3.13	< 0.2	< 5	60	< 0.5	< 2	0.43	0.5	6	16	19	3.38	< 10	3	0.05	< 10	0.40	579
L22+OON 07+5OW	201 238	< 5	3.32	< 0.2	< 5	100	0.5	< 2	0.34	0.5	10	32	26	3.44	< 10	< 1	0.16	10	1.07	1060
L22+OON 08+OOW	201 238	< 5	1.65	< 0.2	< 5	50	< 0.5	< 2	0.28	0.5	4	10	13	2.38	< 10	< 1	0.04	< 10	0.24	617
L22+OON 08+5OW	201 238	< 5	2.68	< 0.2	< 5	40	< 0.5	< 2	0.31	0.5	7	12	15	2.64	< 10	< 1	0.04	< 10	0.40	447
L22+OON 09+OOW	201 238	< 5	2.91	< 0.2	5	60	< 0.5	< 2	0.29	< 0.5	14	15	18	3.28	< 10	< 1	0.06	< 10	0.41	1765
L22+OON 09+5OW	201 238	< 5	2.78	< 0.2	< 5	70	< 0.5	< 2	0.47	0.5	11	18	20	3.32	< 10	< 1	0.08	< 10	0.69	661
L22+OON 10+OOW	201 238	< 5	3.48	< 0.2	< 5	120	< 0.5	< 2	0.25	0.5	7	7	10	2.42	< 10	< 1	0.05	< 10	0.77	1170
L22+SON 05+OOW	201 238	< 5	3.72	< 0.2	20	250	< 0.5	< 2	0.52	1.5	12	48	39	3.84	< 10	< 1	0.05	< 10	0.55	515

CERTIFICATION :



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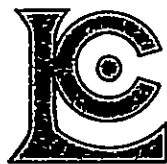
Invoice #:I-8723745

P.O. #:NONE

CERTIFICATE OF ANALYSIS A8723745

SAMPLE DESCRIPTION	PREP CODE	Mb ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L21+00N 00+00W	201 238	4	0.01	64	970	< 2	< 5	< 10	29	0.41	< 10	< 10	210	< 5	391
L21+00N 00+50W	201 238	< 1	0.02	12	770	< 2	< 5	< 10	39	0.25	< 10	< 10	115	< 5	181
L21+00N 01+00W	201 238	2	0.04	46	1370	< 2	< 5	< 10	66	0.33	< 10	< 10	176	< 5	238
L21+00N 01+50W	201 238	2	0.03	32	920	< 2	5	< 10	44	0.31	< 10	< 10	202	< 5	297
L21+00N 03+00W	201 238	11	< 0.01	53	460	< 2	10	< 10	21	0.21	< 10	< 10	689	< 5	387
L21+00N 03+50W	201 238	9	0.01	132	1090	18	15	< 10	21	0.23	< 10	< 10	650	< 5	1490
L21+00N 04+00W	201 238	13	0.01	90	1420	< 2	5	< 10	45	0.18	< 10	< 10	757	< 5	758
L21+00N 04+50W	201 238	1	0.01	21	2330	< 2	< 5	< 10	21	0.20	< 10	< 10	178	< 5	527
L21+00N 05+00W	201 238	1	0.01	58	3580	< 2	5	< 10	43	0.10	< 10	< 10	123	< 5	151
L21+00N 05+50W	201 238	5	< 0.01	87	980	8	5	< 10	38	0.12	< 10	< 10	293	< 5	178
L21+00N 06+00W	201 238	< 1	0.02	4	870	2	< 5	< 10	25	0.16	< 10	< 10	72	< 5	38
L21+00N 06+50W	201 238	4	0.02	82	3310	16	5	< 10	439	0.10	< 10	< 10	139	< 5	221
L21+00N 07+00W	201 238	1	0.01	13	1860	12	5	< 10	23	0.12	< 10	< 10	57	< 5	82
L21+00N 07+50W	201 238	< 1	0.02	7	610	8	< 5	< 10	31	0.20	< 10	< 10	60	< 5	57
L21+00N 08+00W	201 238	< 1	0.01	< 1	2440	< 2	5	< 10	25	0.11	< 10	< 10	45	< 5	60
L21+00N 08+50W	201 238	< 1	0.03	5	960	8	5	< 10	72	0.21	< 10	< 10	79	< 5	91
L21+00N 09+00W	201 238	4	0.01	30	920	10	< 5	< 10	52	0.10	< 10	< 10	101	< 5	90
L21+00N 09+50W	201 238	< 1	0.04	24	2140	4	< 5	< 10	1075	0.14	< 10	< 10	37	< 5	224
L21+00N 10+00W	201 238	< 1	0.05	19	4670	12	< 5	< 10	1130	0.08	< 10	< 10	17	< 5	153
L21+50N 05+00W	201 238	12	0.03	196	2760	6	< 5	< 10	186	0.19	< 10	< 10	430	< 5	185
L22+00N 00+00W	201 238	3	0.03	30	1670	< 2	10	< 10	66	0.25	< 10	< 10	120	< 5	212
L22+00N 00+50W	201 238	3	0.09	43	840	4	< 5	< 10	67	0.28	< 10	< 10	96	< 5	155
L22+00N 01+00W	201 238	2	0.02	54	1280	< 2	5	< 10	39	0.30	< 10	< 10	158	< 5	213
L22+00N 01+50W	201 238	1	0.02	31	1920	< 2	5	< 10	41	0.23	< 10	< 10	178	< 5	261
L22+00N 02+00W	201 238	1	0.02	46	410	< 2	< 5	< 10	34	0.23	< 10	< 10	102	< 5	122
L22+00N 03+50W	201 238	< 1	0.01	3	90	< 2	< 5	< 10	19	0.09	< 10	< 10	53	< 5	29
L22+00N 04+00W	201 238	< 1	0.01	18	2700	< 2	5	< 10	26	0.09	< 10	< 10	137	< 5	225
L22+00N 04+50W	201 238	25	0.01	127	2010	< 2	10	< 10	65	0.27	< 10	< 10	952	< 5	1180
L22+00N 05+00W	201 238	12	0.03	75	960	< 2	< 5	< 10	43	0.24	< 10	< 10	119	< 5	1465
L22+00N 05+50W	201 238	2	0.02	25	1240	< 2	< 5	< 10	37	0.13	< 10	< 10	122	< 5	97
L22+00N 06+00W	201 238	11	0.01	121	3250	< 2	< 5	< 10	65	0.11	< 10	< 10	217	< 5	144
L22+00N 06+50W	201 238	< 1	0.07	40	2680	6	5	< 10	82	0.13	< 10	< 10	64	< 5	92
L22+00N 07+00W	201 238	< 1	0.02	5	1490	< 2	5	< 10	43	0.13	< 10	< 10	84	< 5	51
L22+00N 07+50W	201 238	< 1	0.01	33	1280	12	5	< 10	43	0.17	< 10	< 10	72	< 5	85
L22+00N 08+00W	201 238	< 1	0.02	5	880	< 2	< 5	< 10	26	0.12	< 10	< 10	54	< 5	53
L22+00N 08+50W	201 238	< 1	0.01	7	1230	< 2	< 5	< 10	28	0.11	< 10	< 10	62	< 5	61
L22+00N 09+00W	201 238	< 1	0.02	9	1300	20	< 5	< 10	28	0.18	< 10	< 10	68	< 5	198
L22+00N 09+50W	201 238	< 1	0.03	9	830	2	< 5	< 10	41	0.23	< 10	< 10	77	< 5	87
L22+00N 10+00W	201 238	< 1	0.01	3	3580	< 2	< 5	< 10	201	0.08	< 10	< 10	13	< 5	151
L22+50N 05+00W	201 238	9	0.02	43	2420	< 2	5	< 10	60	0.17	< 10	< 10	169	< 5	184

CERTIFICATION :



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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK

CC: RUDY RIEPE

Page No.: 2-A

Tot. Pages: 5

Date: 14-OCT-87

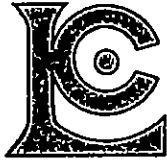
Invoice #: I-8723745

P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723745

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L23+OQN 00+00W	201 238	< 5	2.51	< 0.2	< 5	40	< 0.5	< 2	0.54	1.0	5	58	26	6.79	< 10	< 1	0.01	< 10	0.36	191
L23+OQN 00+50W	201 238	< 5	2.32	< 0.2	< 5	100	< 0.5	< 2	1.08	2.5	29	62	26	5.56	< 10	< 1	0.01	< 10	0.18	2550
L23+OQN 01+00W	201 238	< 5	2.69	< 0.2	130	60	< 0.5	< 2	0.41	1.5	12	35	18	4.61	< 10	< 1	0.02	< 10	0.23	868
L23+OQN 01+50W	201 238	< 5	5.15	0.2	< 5	40	0.5	< 2	0.51	2.0	21	60	35	4.47	< 10	< 1	< 0.01	< 10	0.10	1330
L23+OQN 02+00W	201 238	< 5	3.13	0.2	< 5	80	< 0.5	< 2	0.75	2.0	14	76	56	5.22	< 10	4	< 0.01	< 10	0.12	318
L23+OQN 03+00W	201 238	< 5	4.49	1.6	< 5	110	1.0	< 2	1.76	2.0	12	140	79	3.67	< 10	1	< 0.01	< 10	0.11	343
L23+OQN 03+50W	201 238	25	1.53	< 0.2	< 5	20	< 0.5	< 2	0.27	< 0.5	4	12	9	2.11	< 10	< 1	0.02	< 10	0.17	236
L23+OQN 04+00W	201 238	< 5	2.68	0.8	365	20	0.5	< 2	1.41	3.5	9	92	106	3.94	< 10	5	< 0.01	< 10	0.10	832
L23+OQN 04+50W	201 238	< 5	4.19	0.8	20	20	0.5	2	0.49	3.5	11	93	109	3.91	< 10	3	0.01	10	0.22	438
L23+OQN 05+00W	201 238	< 5	2.63	0.4	55	210	0.5	< 2	3.31	5.0	11	78	65	2.96	< 10	4	0.07	< 10	0.48	828
L23+OQN 05+50W	201 238	< 5	2.29	< 0.2	< 5	130	< 0.5	< 2	0.41	< 0.5	6	22	14	4.39	< 10	< 1	0.03	< 10	0.30	729
L23+OQN 06+00W	201 238	< 5	3.51	< 0.2	< 5	90	0.5	< 2	0.40	0.5	16	37	34	3.83	< 10	< 1	0.04	< 10	0.86	927
L23+OQN 06+50W	201 238	< 5	4.88	< 0.2	< 5	100	< 0.5	< 2	0.37	< 0.5	14	23	54	4.31	< 10	< 1	0.07	< 10	0.69	779
L23+OQN 07+00W	201 238	< 5	2.33	< 0.2	40	60	< 0.5	< 2	0.32	< 0.5	14	26	27	3.89	< 10	2	0.04	< 10	0.46	498
L23+OQN 07+50W	201 238	< 5	3.53	< 0.2	< 5	160	0.5	< 2	0.45	4.0	15	31	60	4.03	< 10	1	0.08	10	0.56	1158
L23+OQN 08+00W	201 238	< 5	2.54	< 0.2	< 5	40	< 0.5	< 2	0.32	< 0.5	6	22	13	5.48	< 10	< 1	0.02	< 10	0.18	965
L23+OQN 08+50W	201 238	< 5	2.98	< 0.2	< 5	40	< 0.5	< 2	0.37	0.5	6	21	19	5.52	< 10	< 1	0.02	< 10	0.23	541
L23+OQN 09+00W	201 238	< 5	0.85	< 0.2	< 5	20	< 0.5	< 2	0.25	< 0.5	1	13	4	3.22	< 10	< 1	< 0.01	< 10	0.08	226
L23+OQN 09+50W	201 238	< 5	3.08	< 0.2	< 5	120	< 0.5	< 2	0.40	< 0.5	16	11	24	4.02	< 10	< 1	0.04	< 10	0.71	2180
L23+OQN 10+00W	201 238	< 5	3.30	< 0.2	20	60	< 0.5	< 2	0.26	< 0.5	13	16	15	4.24	< 10	3	0.04	< 10	0.27	1485
L23+SQN 05+00W	201 238	< 5	3.01	< 0.2	< 5	50	< 0.5	< 2	0.30	1.5	9	20	20	4.66	< 10	< 1	0.02	< 10	0.26	500
L24+OQN 00+00W	201 238	< 5	2.30	0.2	< 5	150	< 0.5	< 2	0.67	1.0	27	37	63	5.48	< 10	1	0.05	< 10	0.50	1615
L24+OQN 00+50W	201 238	< 5	3.90	< 0.2	< 5	30	< 0.5	< 2	0.69	0.5	19	63	65	4.45	< 10	< 1	< 0.01	< 10	0.14	325
L24+OQN 01+00W	201 238	< 5	2.21	< 0.2	15	100	0.5	< 2	1.02	1.5	22	70	28	5.62	< 10	< 1	0.01	< 10	0.20	1350
L24+OQN 01+50W	201 238	< 5	4.14	< 0.2	10	60	< 0.5	2	0.42	0.5	14	50	57	3.76	< 10	< 1	0.07	< 10	0.52	437
L24+OQN 02+00W	201 238	< 5	1.54	< 0.2	5	40	< 0.5	< 2	0.38	0.5	4	18	13	3.15	< 10	< 1	0.03	< 10	0.22	613
L24+OQN 03+50W	201 238	< 5	0.11	< 0.2	70	20	< 0.5	< 2	2.92	34.0	< 1	9	15	1.34	< 10	< 1	0.04	< 10	0.03	307
L24+OQN 04+00W	201 238	< 5	1.39	< 0.2	< 5	50	< 0.5	< 2	0.23	0.5	6	13	20	2.56	< 10	< 1	0.03	< 10	0.19	472
L24+OQN 04+50W	201 238	< 5	3.86	1.0	30	40	0.5	4	0.31	4.5	14	80	97	3.20	< 10	< 1	0.08	10	0.51	593
L24+OQN 05+00W	201 238	< 5	2.36	0.8	25	50	0.5	2	1.64	14.0	15	78	115	3.39	< 10	1	0.05	< 10	0.41	534
L24+OQN 05+50W	201 238	< 5	2.50	< 0.2	5	260	< 0.5	< 2	1.04	2.0	6	65	29	3.01	< 10	< 1	0.06	< 10	0.33	1160
L24+SQN 05+00W	201 238	< 5	2.11	< 0.2	15	80	< 0.5	< 2	0.88	1.5	28	43	69	4.36	< 10	< 1	0.02	< 10	0.22	1225
L25+OQN 00+00W	201 238	10	4.16	< 0.2	25	90	0.5	< 2	0.75	1.0	24	47	117	6.07	< 10	< 1	0.02	< 10	0.38	373
L25+OQN 00+50W	201 238	< 5	2.28	< 0.2	40	100	< 0.5	< 2	2.28	1.5	17	108	44	3.08	< 10	1	0.02	< 10	0.10	1520
L25+OQN 01+50W	201 238	< 5	3.64	< 0.2	< 5	60	0.5	< 2	0.26	0.5	15	18	32	3.63	< 10	< 1	0.06	< 10	0.42	648
L25+OQN 02+00W	201 238	< 5	4.08	< 0.2	5	40	0.5	< 2	0.24	< 0.5	8	19	17	3.34	< 10	< 1	0.06	< 10	0.38	335
L25+OQN 03+50W	201 238	< 5	5.67	3.4	35	40	0.5	< 2	0.15	1.5	2	144	36	4.53	< 10	< 1	< 0.01	10	0.19	186
L25+OQN 04+00W	201 238	< 5	1.30	< 0.2	10	30	< 0.5	2	0.20	1.0	5	22	14	2.57	< 10	< 1	0.03	< 10	0.19	498
L25+OQN 04+50W	201 238	< 5	3.82	0.8	50	70	0.5	4	1.37	9.0	14	115	121	3.81	< 10	< 1	0.06	< 10	0.32	996
L25+OQN 05+00W	201 238	< 5	3.75	< 0.2	5	80	0.5	2	0.28	0.5	13	18	22	3.69	< 10	< 1	0.06	< 10	0.46	355

CERTIFICATION :



Chemex Labs Ltd.

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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK

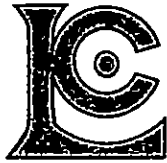
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Page No. :2-B
Tot. Pages:5
Date :14-OCT-87
Invoice # I-8723745
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8723745

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L23+00N 00+00W	201 238	< 1	0.03	16	1490	< 4	< 5	< 10	20	0.24	< 10	< 10	177	< 5	132
L23+00N 00+50W	201 238	< 1	0.02	33	770	< 2	< 5	< 10	33	0.38	< 10	< 10	186	< 5	252
L23+00N 01+00W	201 238	< 1	0.01	21	1050	< 2	< 5	< 10	21	0.23	< 10	< 10	150	< 5	268
L23+00N 01+50W	201 238	2	0.02	37	1700	< 4	< 5	< 10	23	0.25	< 10	< 10	144	< 5	197
L23+00N 02+00W	201 238	8	0.05	36	510	< 2	< 5	< 10	95	0.34	< 10	< 10	191	< 5	171
L23+00N 03+00W	201 238	< 1	0.01	88	4800	2	< 5	< 10	81	0.11	< 10	< 10	345	< 5	369
L23+00N 03+50W	201 238	< 1	0.01	6	660	6	< 5	< 10	18	0.11	< 10	< 10	59	< 5	84
L23+00N 04+00W	201 238	9	< 0.01	110	1010	< 2	< 5	< 10	31	0.13	< 10	< 10	678	< 5	1040
L23+00N 04+50W	201 238	15	0.02	118	1130	12	< 5	< 10	68	0.23	< 10	< 10	876	< 5	811
L23+00N 05+00W	201 238	6	0.03	166	1970	< 2	10	< 10	193	0.15	< 10	< 10	368	< 5	390
L23+00N 05+50W	201 238	< 1	0.02	10	3120	10	< 5	< 10	46	0.11	< 10	< 10	122	< 5	80
L23+00N 06+00W	201 238	< 1	0.01	40	2340	2	< 5	< 10	58	0.18	< 10	< 10	119	< 5	156
L23+00N 06+50W	201 238	< 1	0.02	21	1740	< 2	< 5	< 10	31	0.20	< 10	< 10	94	< 5	96
L23+00N 07+00W	201 238	3	0.03	10	2270	8	< 5	< 10	75	0.12	< 10	< 10	79	< 5	89
L23+00N 07+50W	201 238	< 1	0.03	100	630	10	< 5	< 10	49	0.22	< 10	< 10	85	< 5	185
L23+00N 08+00W	201 238	1	0.02	3	1180	6	< 5	< 10	34	0.14	< 10	< 10	144	< 5	51
L23+00N 08+50W	201 238	2	0.02	10	630	6	< 5	< 10	39	0.18	< 10	< 10	137	< 5	62
L23+00N 09+00W	201 238	< 1	0.01	< 1	650	8	< 5	< 10	28	0.10	< 10	< 10	93	< 5	23
L23+00N 09+50W	201 238	< 1	0.04	5	4530	6	< 5	< 10	103	0.10	< 10	< 10	75	< 5	82
L23+00N 10+00W	201 238	< 1	0.02	4	3260	22	< 5	< 10	25	0.18	< 10	< 10	80	< 5	104
L24+50N 05+00W	201 238	6	0.01	33	1560	< 2	< 5	< 10	27	0.23	< 10	< 10	201	< 5	406
L24+00N 00+00W	201 238	< 1	0.03	29	1620	< 2	< 5	< 10	40	0.25	< 10	< 10	97	< 5	205
L24+00N 00+50W	201 238	< 1	0.01	42	760	< 2	< 5	< 10	22	0.35	< 10	< 10	69	< 5	72
L24+00N 01+00W	201 238	3	0.01	43	830	2	< 5	< 10	34	0.40	< 10	< 10	155	< 5	205
L24+00N 01+50W	201 238	2	0.03	32	1240	8	< 5	10	26	0.19	< 10	< 10	80	< 5	84
L24+00N 02+00W	201 238	2	0.01	10	520	2	< 5	< 10	21	0.22	< 10	< 10	95	< 5	115
L24+00N 03+50W	201 238	5	0.03	20	1570	32	< 5	40	163	< 0.01	< 10	10	223	< 5	167
L24+00N 04+00W	201 238	< 1	0.02	6	880	2	< 5	< 10	19	0.14	< 10	< 10	73	< 5	113
L24+00N 04+50W	201 238	14	0.03	134	1320	10	< 5	10	97	0.18	< 10	< 10	734	< 5	1035
L24+00N 05+00W	201 238	14	0.04	183	1110	8	< 5	10	271	0.19	< 10	< 10	778	< 5	1340
L24+50N 05+50W	201 238	10	0.02	114	2850	12	< 5	< 10	240	0.12	< 10	< 10	313	< 5	224
L24+50N 05+00W	201 238	1	0.02	55	730	2	< 5	< 10	33	0.20	< 10	< 10	76	< 5	149
L25+00N 00+00W	201 238	6	0.02	78	1250	< 2	< 5	< 10	62	0.27	< 10	< 10	125	< 5	257
L25+00N 00+50W	201 238	3	0.01	37	720	34	< 5	10	40	0.19	< 10	< 10	73	< 5	85
L25+00N 01+50W	201 238	1	0.02	36	710	8	< 5	< 10	17	0.19	< 10	< 10	77	< 5	106
L25+00N 02+00W	201 238	1	0.02	10	660	8	< 5	< 10	16	0.18	< 10	< 10	76	< 5	74
L25+00N 03+50W	201 238	7	0.01	30	1110	2	15	10	24	0.22	< 10	< 10	587	< 5	318
L25+00N 04+00W	201 238	1	0.02	34	820	2	< 5	< 10	16	0.18	< 10	< 10	155	< 5	487
L25+00N 04+50W	201 238	19	0.05	160	2350	12	15	< 10	212	0.16	< 10	< 10	1040	< 5	1100
L25+00N 05+00W	201 238	3	0.02	15	1160	12	< 5	10	27	0.24	< 10	< 10	123	< 5	137

CERTIFICATION :



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Project: QUADRA

Comments: CC: PAUL KALLOCK

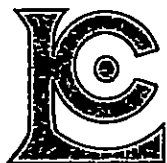
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Page No. : 3-A
Tot. Pages: 5
Date : 14-OCT-87
Invoice #: I-8723745
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723745

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L25+50N 05+00W	201 238	< 5	2.43	< 0.2	10	150	< 0.5	< 2	0.98	1.0	6	47	33	2.53	< 10	< 1	0.05	< 10	0.37	835
L26+00N 05+00W	201 238	< 5	1.39	< 0.2	10	90	< 0.5	2	0.16	0.5	7	38	14	1.72	< 10	< 1	0.03	< 10	0.28	473
L26+50N 05+00W	201 238	< 5	3.44	< 0.2	10	280	< 0.5	< 2	0.20	1.5	15	57	18	3.57	< 10	< 1	0.04	< 10	0.32	748
L27+00N 05+00W	201 238	< 5	2.26	< 0.2	10	70	< 0.5	< 2	0.27	0.5	6	14	15	3.09	< 10	< 1	0.04	< 10	0.33	770
L27+50N 05+00W	201 238	< 5	2.01	< 0.2	5	70	0.5	< 2	1.87	0.5	7	24	9	2.46	< 10	< 1	0.01	< 10	0.11	372
L28+00N 05+00W	201 238	< 5	2.42	< 0.2	25	30	1.0	2	5.02	1.0	17	30	48	4.42	< 10	< 1	< 0.01	< 10	0.10	492
L28+00N 05+50W	201 238	< 5	2.71	< 0.2	10	30	0.5	< 2	0.30	< 0.5	7	11	12	2.53	< 10	1	0.03	< 10	0.25	430
L28+00N 06+00W	201 238	< 5	2.06	< 0.2	< 5	40	< 0.5	< 2	0.33	0.5	4	15	13	3.41	< 10	< 1	0.04	< 10	0.26	243
L28+00N 06+50W	201 238	< 5	2.11	< 0.2	< 5	60	< 0.5	2	0.37	0.5	5	15	14	2.78	< 10	< 1	0.06	< 10	0.31	760
L28+00N 07+00W	201 238	5	2.92	< 0.2	< 5	90	0.5	2	0.44	0.5	14	20	18	3.29	< 10	< 1	0.14	< 10	0.78	896
L28+00N 07+50W	201 238	10	2.89	< 0.2	15	80	0.5	2	0.44	< 0.5	12	15	23	3.19	< 10	< 1	0.08	< 10	0.64	639
L28+00N 08+00W	201 238	< 5	3.79	< 0.2	10	110	0.5	< 2	0.42	0.5	14	25	23	3.72	< 10	< 1	0.13	< 10	0.72	773
L28+00N 08+50W	201 238	< 5	2.14	< 0.2	< 5	50	< 0.5	4	0.33	0.5	6	13	14	2.05	< 10	< 1	0.05	< 10	0.30	483
L28+00N 09+00W	201 238	< 5	2.17	< 0.2	5	40	< 0.5	2	0.23	0.5	6	9	11	2.46	< 10	< 1	0.05	< 10	0.29	778
L28+00N 09+50W	201 238	5	1.28	< 0.2	< 5	30	< 0.5	2	0.39	< 0.5	5	11	25	2.72	< 10	< 1	0.02	< 10	0.20	731
L28+00N 10+00W	201 238	5	2.71	< 0.2	25	40	0.5	2	0.27	< 0.5	15	14	64	4.57	< 10	< 1	0.04	< 10	0.25	1000
L28+00N 10+50W	201 238	5	4.37	< 0.2	5	110	< 0.5	2	0.23	0.5	16	19	20	4.65	< 10	< 1	0.06	< 10	0.41	1335
L28+00N 11+00W	201 238	10	5.41	< 0.2	35	40	< 0.5	2	0.22	< 0.5	17	7	46	4.72	< 10	< 1	0.03	< 10	0.42	1520
L28+00N 11+50W	201 238	20	2.21	< 0.2	20	90	< 0.5	< 2	0.61	0.5	8	39	45	1.70	< 10	< 1	0.22	10	0.99	927
L28+00N 12+00W	201 238	< 5	1.59	< 0.2	5	60	< 0.5	< 2	0.28	< 0.5	6	12	12	2.21	< 10	< 1	0.06	< 10	0.31	424
L28+50N 05+00W	201 238	10	1.14	< 0.2	< 5	30	< 0.5	< 2	0.67	< 0.5	4	13	4	2.25	< 10	< 1	0.02	< 10	0.12	916
L28+50N 12+00W	201 238	10	1.57	< 0.2	5	40	< 0.5	< 2	0.18	< 0.5	5	9	7	2.13	< 10	< 1	0.03	< 10	0.10	688
L29+00N 05+00W	201 238	15	3.24	< 0.2	55	70	< 0.5	< 2	1.59	0.5	14	24	74	3.63	< 10	< 1	0.07	< 10	0.84	707
L29+00N 05+50W	201 238	< 5	3.37	< 0.2	< 5	130	< 0.5	2	0.39	< 0.5	13	19	28	2.98	< 10	< 1	0.12	10	0.69	835
L29+00N 06+00W	201 238	< 5	4.23	< 0.2	< 5	170	< 0.5	2	0.43	0.5	15	25	24	3.54	< 10	< 1	0.19	< 10	0.82	647
L29+00N 06+50W	201 238	< 5	3.44	< 0.2	< 5	130	< 0.5	2	0.36	0.5	13	22	28	3.10	< 10	< 1	0.16	< 10	0.86	513
L29+00N 07+00W	201 238	< 5	3.21	< 0.2	5	120	< 0.5	< 2	0.32	0.5	14	22	25	3.43	< 10	< 1	0.12	< 10	0.81	1535
L29+00N 07+50W	201 238	< 5	2.24	< 0.2	< 5	80	< 0.5	2	0.44	< 0.5	10	20	9	3.12	< 10	< 1	0.08	< 10	0.50	800
L29+00N 08+00W	201 238	< 5	1.63	< 0.2	< 5	40	< 0.5	< 2	0.21	< 0.5	6	11	6	2.48	< 10	< 1	0.05	< 10	0.20	221
L29+00N 08+50W	201 238	< 5	3.36	< 0.2	< 5	150	< 0.5	2	0.42	0.5	14	22	25	3.12	< 10	2	0.13	< 10	0.76	927
L29+00N 09+00W	201 238	< 5	3.65	< 0.2	10	370	< 0.5	4	4.49	8.0	17	11	24	2.61	< 10	1	0.08	< 10	0.65	7200
L29+00N 09+50W	201 238	< 5	4.64	< 0.2	35	90	< 0.5	2	0.71	1.5	15	26	26	3.93	< 10	< 1	0.09	10	0.62	634
L29+00N 10+00W	201 238	< 5	2.23	< 0.2	15	50	< 0.5	< 2	0.55	0.5	7	16	10	2.79	< 10	< 1	0.05	10	0.33	285
L29+00N 10+50W	201 238	< 5	4.46	< 0.2	5	170	< 0.5	2	0.33	0.5	13	28	27	3.32	< 10	< 1	0.15	< 10	1.06	315
L29+00N 11+00W	201 238	< 5	3.38	< 0.2	5	70	< 0.5	< 2	0.18	0.5	13	13	28	3.75	< 10	< 1	0.04	< 10	0.44	2130
L29+00N 11+50W	201 238	< 5	2.29	< 0.2	5	80	< 0.5	< 2	0.30	0.5	11	36	11	3.17	< 10	< 1	0.05	< 10	0.32	949
L29+00N 12+00W	201 238	< 5	2.20	< 0.2	5	40	< 0.5	< 2	0.16	< 0.5	6	12	12	2.96	< 10	< 1	0.03	< 10	0.21	940
L29+50N 05+00W	201 238	< 5	2.84	< 0.2	20	50	< 0.5	< 2	0.21	< 0.5	11	13	21	3.06	< 10	< 1	0.03	< 10	0.33	649
L30+00N 05+00W	201 238	< 5	3.32	< 0.2	15	90	0.5	2	0.82	0.5	15	40	68	3.17	< 10	1	0.02	10	1.18	873
L30+00N 05+50W	201 238	< 5	4.91	< 0.2	< 5	40	< 0.5	2	0.41	0.5	15	14	28	3.65	< 10	< 1	0.04	< 10	0.77	617

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
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Project: QUADRA

Comments: CC: PAUL KALLOCK

CC: RUDY RIEPE

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Date: 14-OCT-87

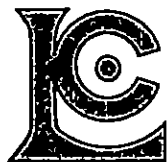
Invoice #: I-8723745

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CERTIFICATE OF ANALYSIS A8723745

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L25+50N 05+00W	201 238	9	0.02	99	1530	20	< 5	< 10	76	0.12	< 10	< 10	305	< 5	143
L26+00N 05+00W	201 238	6	0.01	79	1820	2	< 5	< 10	31	0.07	< 10	< 10	259	< 5	100
L26+50N 05+00W	201 238	8	0.01	81	4520	12	< 5	< 10	35	0.15	< 10	< 10	269	< 5	164
L27+00N 05+00W	201 238	< 1	0.02	8	2570	4	< 5	< 10	25	0.12	< 10	< 10	80	< 5	98
L27+50N 05+00W	201 238	2	0.01	28	2480	12	< 5	< 10	41	0.11	< 10	< 10	150	< 5	137
L28+00N 05+00W	201 238	< 1	< 0.01	33	5640	4	< 5	< 10	56	0.11	< 10	< 10	92	< 5	109
L28+00N 05+50W	201 238	< 1	0.02	3	1180	2	< 5	< 10	26	0.09	< 10	< 10	62	< 5	40
L28+00N 06+00W	201 238	1	0.02	18	810	6	< 5	< 10	23	0.18	< 10	< 10	93	< 5	102
L28+00N 06+50W	201 238	< 1	0.03	5	1380	8	< 5	< 10	31	0.20	< 10	< 10	58	< 5	56
L28+00N 07+00W	201 238	< 1	0.04	14	920	< 2	< 5	10	33	0.22	< 10	< 10	75	< 5	93
L28+00N 07+50W	201 238	1	0.03	9	1350	4	< 5	< 10	39	0.19	< 10	< 10	72	< 5	98
L28+00N 08+00W	201 238	1	0.04	17	890	8	< 5	< 10	32	0.29	< 10	< 10	79	< 5	133
L28+00N 08+50W	201 238	2	0.03	12	410	2	< 5	< 10	26	0.17	< 10	< 10	47	< 5	73
L28+00N 09+00W	201 238	< 1	0.02	5	2240	6	< 5	< 10	20	0.13	< 10	< 10	61	< 5	78
L28+00N 09+50W	201 238	< 1	0.02	3	1150	2	< 5	< 10	28	0.21	< 10	< 10	71	< 5	59
L28+00N 10+00W	201 238	1	0.02	6	4120	8	< 5	< 10	31	0.18	< 10	< 10	78	< 5	83
L28+00N 10+50W	201 238	< 1	0.02	7	4800	< 2	< 5	< 10	22	0.16	< 10	< 10	93	< 5	136
L28+00N 11+00W	201 238	7	0.01	23	2300	10	< 5	< 10	34	0.10	< 10	< 10	44	< 5	92
L28+00N 11+50W	201 238	18	0.03	148	1560	14	< 5	< 10	86	0.07	< 10	< 10	184	< 5	103
L28+00N 12+00W	201 238	< 1	0.03	10	840	< 2	< 5	< 10	22	0.16	< 10	< 10	49	< 5	52
L28+50N 05+00W	201 238	< 1	0.02	2	680	< 2	< 5	< 10	30	0.12	< 10	< 10	60	< 5	43
L28+50N 12+00W	201 238	< 1	0.02	4	2120	4	< 5	< 10	21	0.11	< 10	< 10	44	< 5	45
L29+00N 05+00W	201 238	< 1	0.02	13	1790	< 2	< 5	< 10	56	0.14	< 10	< 10	87	< 5	63
L29+00N 05+50W	201 238	1	0.04	11	690	8	< 5	< 10	30	0.23	< 10	< 10	68	< 5	61
L29+00N 06+00W	201 238	< 1	0.03	17	1090	6	< 5	10	31	0.23	< 10	< 10	78	< 5	87
L29+00N 06+50W	201 238	< 1	0.04	13	1340	2	< 5	< 10	26	0.20	< 10	< 10	70	< 5	78
L29+00N 07+00W	201 238	1	0.02	15	1550	14	< 5	10	45	0.20	< 10	< 10	79	< 5	116
L29+00N 07+50W	201 238	< 1	0.03	8	1040	6	< 5	10	31	0.27	< 10	< 10	63	< 5	67
L29+00N 08+00W	201 238	< 1	0.02	4	1130	< 2	< 5	< 10	18	0.15	< 10	< 10	58	< 5	43
L29+00N 08+50W	201 238	< 1	0.04	13	1100	< 2	< 5	10	33	0.22	< 10	< 10	69	< 5	78
L29+00N 09+00W	201 238	< 1	0.02	14	7510	42	< 5	10	432	0.06	< 10	< 10	24	< 5	915
L29+00N 09+50W	201 238	1	0.04	21	680	< 2	< 5	< 10	61	0.23	< 10	< 10	80	< 5	133
L29+00N 10+00W	201 238	< 1	0.02	8	350	4	< 5	< 10	46	0.21	< 10	< 10	61	< 5	53
L29+00N 10+50W	201 238	4	0.03	34	1550	14	< 5	10	119	0.10	< 10	< 10	65	< 5	111
L29+00N 11+00W	201 238	2	0.01	14	3370	6	< 5	10	31	0.08	< 10	< 10	50	< 5	92
L29+00N 11+50W	201 238	6	0.02	64	3020	10	< 5	< 10	52	0.10	< 10	< 10	136	< 5	99
L29+00N 12+00W	201 238	< 1	0.02	5	3000	4	< 5	< 10	16	0.12	< 10	< 10	69	< 5	62
L29+50N 05+00W	201 238	< 1	0.02	8	2720	6	< 5	< 10	22	0.11	< 10	< 10	72	< 5	59
L30+00N 05+00W	201 238	2	0.13	53	1120	10	< 5	10	3600	0.16	< 10	< 10	53	< 5	97
L30+00N 05+50W	201 238	< 1	0.03	12	2770	4	< 5	10	48	0.17	< 10	< 10	81	< 5	68

CERTIFICATION :



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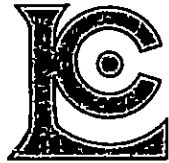
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CERTIFICATE OF ANALYSIS A8723745

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L30+OON 06+00W	201 238	< 5	1.81	< 0.2	< 5	70	< 0.5	< 2	0.29	< 0.5	7	12	13	1.70	< 10	< 1	0.07	< 10	0.40	270
L30+OON 06+50W	201 238	< 5	4.14	< 0.2	10	150	< 0.5	< 2	0.45	< 0.5	14	26	36	3.38	< 10	< 1	0.17	10	0.84	559
L30+OON 07+00W	201 238	< 5	2.32	< 0.2	< 5	40	< 0.5	2	0.20	< 0.5	6	12	11	2.51	< 10	< 1	0.04	< 10	0.29	432
L30+OON 07+50W	203 238	< 5	3.83	< 0.2	5	60	< 0.5	2	0.41	0.5	13	92	22	3.69	< 10	2	0.07	10	0.63	875
L30+OON 08+00W	203 238	< 5	1.90	< 0.2	< 5	50	< 0.5	2	0.44	< 0.5	7	78	11	2.33	< 10	< 1	0.08	< 10	0.46	485
L30+OON 08+50W	201 238	130	3.27	< 0.2	615	110	< 0.5	2	0.34	1.5	42	9	86	3.94	< 10	< 1	0.05	< 10	0.65	1510
L30+OON 09+00W	201 238	5	2.91	< 0.2	15	220	< 0.5	2	0.40	0.5	18	22	39	3.34	< 10	< 1	0.05	< 10	0.95	825
L30+OON 09+50W	201 238	< 5	3.61	< 0.2	< 5	110	< 0.5	< 2	0.44	0.5	14	26	19	4.03	< 10	< 1	0.11	< 10	0.71	443
L30+OON 10+00W	201 238	< 5	1.69	< 0.2	< 5	70	< 0.5	< 2	0.23	< 0.5	6	13	11	2.36	< 10	< 1	0.05	< 10	0.27	330
L30+OON 10+50W	201 238	10	1.95	< 0.2	55	60	< 0.5	< 2	0.22	0.5	48	9	326	7.71	< 10	< 1	0.03	< 10	0.17	1870
L30+OON 11+00W	201 238	< 5	0.95	< 0.2	< 5	20	< 0.5	2	0.17	< 0.5	5	7	7	1.54	< 10	< 1	0.02	< 10	0.12	348
L30+OON 11+50W	201 238	< 5	2.18	< 0.2	10	80	< 0.5	< 2	0.40	< 0.5	8	40	25	1.83	< 10	< 1	0.12	10	0.70	539
L30+OON 12+00W	201 238	< 5	2.24	< 0.2	10	70	< 0.5	2	0.26	< 0.5	6	13	29	2.40	< 10	< 1	0.05	< 10	0.38	371
L30+50N 05+00W	203 238	< 5	3.65	< 0.2	15	70	< 0.5	2	0.66	0.5	15	62	29	4.24	< 10	2	0.05	< 10	0.72	787
L30+50N 10+00W	201 238	< 5	2.43	< 0.2	< 5	60	< 0.5	2	0.31	< 0.5	12	16	18	3.01	< 10	< 1	0.07	< 10	0.43	367
L30+50N 12+00W	203 238	< 5	3.72	< 0.2	< 5	270	< 0.5	< 2	0.43	0.5	16	71	36	4.03	< 10	< 1	0.07	< 10	0.51	1750
L31+OON 05+00W	217 238	< 5	3.90	< 0.2	< 5	70	< 0.5	2	1.44	1.0	60	44	48	4.17	< 10	< 1	0.03	< 10	0.28	2250
L31+OON 05+50W	201 238	< 5	3.23	< 0.2	< 5	80	< 0.5	< 2	0.29	0.5	11	16	16	3.71	< 10	< 1	0.06	< 10	0.53	519
L31+OON 06+00W	201 238	< 5	3.81	< 0.2	< 5	170	< 0.5	< 2	0.51	0.5	14	24	27	3.93	< 10	< 1	0.15	10	0.70	1310
L31+OON 06+50W	201 238	< 5	3.80	< 0.2	10	200	< 0.5	2	0.52	< 0.5	14	26	35	3.31	< 10	< 1	0.21	< 10	0.97	492
L31+OON 07+00W	201 238	35	2.39	< 0.2	10	70	< 0.5	< 2	0.29	< 0.5	6	16	16	2.47	< 10	< 1	0.08	< 10	0.49	703
L31+OON 07+50W	201 238	< 5	3.44	< 0.2	5	140	< 0.5	4	0.85	0.5	7	15	19	2.58	< 10	2	0.09	< 10	1.17	865
L31+OON 08+00W	201 238	< 5	1.65	< 0.2	< 5	50	< 0.5	< 2	0.29	< 0.5	6	15	7	2.53	< 10	< 1	0.05	< 10	0.30	392
L31+OON 08+50W	201 238	< 5	3.09	< 0.2	50	100	< 0.5	2	0.46	1.0	25	20	189	3.92	< 10	< 1	0.04	10	0.91	1455
L31+OON 09+00W	203 238	< 5	2.63	< 0.2	< 5	100	< 0.5	2	0.36	< 0.5	8	63	20	2.38	< 10	< 1	0.11	< 10	0.56	385
L31+OON 09+50W	201 238	< 5	2.55	< 0.2	< 5	70	< 0.5	< 2	0.32	0.5	14	15	18	3.06	< 10	< 1	0.06	< 10	0.42	1050
L31+OON 10+00W	201 238	< 5	2.47	< 0.2	< 5	80	< 0.5	< 2	0.41	< 0.5	10	20	18	2.83	< 10	< 1	0.09	< 10	0.64	555
L31+OON 10+50W	201 238	< 5	2.84	< 0.2	< 5	50	< 0.5	< 2	0.16	< 0.5	8	9	16	1.89	< 10	< 1	0.03	< 10	0.58	380
L31+OON 11+00W	201 238	< 5	1.48	< 0.2	5	10	< 0.5	< 2	0.13	< 0.5	4	5	5	1.59	< 10	< 1	0.01	< 10	0.11	190
L31+OON 11+50W	201 238	< 5	3.08	< 0.2	< 5	60	< 0.5	2	0.19	1.0	14	23	22	3.78	< 10	< 1	0.02	< 10	0.26	749
L31+OON 12+00W	201 238	< 5	3.09	< 0.2	< 5	50	< 0.5	2	0.26	1.0	57	12	231	11.85	< 10	< 1	0.02	< 10	0.19	2210
L31+50N 05+00W	201 238	< 5	3.14	< 0.2	35	80	< 0.5	2	0.90	1.0	29	21	54	4.06	< 10	< 1	0.03	< 10	0.40	939
L31+50N 10+00W	201 238	< 5	2.22	< 0.2	20	160	< 0.5	< 2	0.39	< 0.5	10	15	12	2.50	< 10	< 1	0.10	< 10	0.55	899
L32+OON 05+00W	201 238	< 5	3.00	< 0.2	< 5	160	< 0.5	2	1.58	2.0	35	48	51	4.36	< 10	< 1	0.03	< 10	0.64	1245
L32+OON 05+50W	201 238	< 5	3.12	< 0.2	5	60	< 0.5	< 2	0.36	0.5	11	17	20	3.43	< 10	< 1	0.05	< 10	0.31	579
L32+OON 06+00W	201 238	35	4.75	< 0.2	< 5	60	< 0.5	< 2	0.26	0.5	7	11	11	2.64	< 10	< 1	0.03	< 10	0.18	220
L32+OON 06+50W	201 238	< 5	4.53	< 0.2	< 5	70	< 0.5	2	3.72	1.0	24	15	45	6.65	< 10	1	0.01	< 10	0.04	337
L32+OON 07+00W	201 238	< 5	3.81	< 0.2	< 5	170	< 0.5	2	0.45	< 0.5	14	23	29	3.03	< 10	< 1	0.15	< 10	0.81	543
L32+OON 07+50W	201 238	< 5	2.41	< 0.2	< 5	50	< 0.5	2	0.36	0.5	6	15	14	2.44	< 10	< 1	0.05	< 10	0.41	221
L32+OON 08+00W	201 238	< 5	1.42	< 0.2	5	70	< 0.5	< 2	0.23	0.5	4	11	14	2.40	< 10	< 1	0.02	< 10	0.16	333

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
 VANCOUVER, B.C.
 V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK

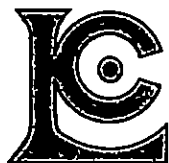
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Page No. :4-B
 Tot. Pages: 5
 Date :14-OCT-87
 Invoice #: I-8723745
 P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723745

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L30+OON 06+OOW	201 238	< 1	0.03	6	460	< 2	< 5	< 10	22	0.13	< 10	< 10	42	< 5	32
L30+OON 06+5OW	201 238	1	0.04	14	550	< 2	< 5	10	39	0.26	< 10	< 10	31	< 5	61
L30+OON 07+OOW	201 238	1	0.02	7	1520	4	< 5	< 10	17	0.12	< 10	< 10	53	< 5	47
L30+OON 07+5OW	203 238	2	0.05	14	1950	4	< 5	< 10	40	0.17	< 10	< 10	44	< 5	101
L30+OON 08+OOW	203 238	< 1	0.07	8	670	< 2	< 5	< 10	49	0.13	< 10	< 10	54	< 5	52
L30+OON 08+5OW	201 238	< 1	0.02	12	2230	6	< 5	10	240	0.10	< 10	< 10	39	< 5	234
L30+OON 09+OOW	201 238	6	0.03	45	2120	2	< 5	10	69	0.13	< 10	< 10	112	< 5	115
L30+OON 09+5OW	201 238	< 1	0.04	15	730	< 2	< 5	< 10	31	0.30	< 10	< 10	92	< 5	77
L30+OON 10+OOW	201 238	< 1	0.02	5	650	6	< 5	< 10	21	0.17	< 10	< 10	57	< 5	35
L30+OON 10+5OW	201 238	< 1	0.01	38	2490	2	5	< 10	28	0.09	< 10	< 10	38	< 5	57
L30+OON 11+OOW	201 238	< 1	0.01	4	1110	2	< 5	< 10	15	0.08	< 10	< 10	38	< 5	30
L30+OON 11+5OW	201 238	15	0.02	118	2520	6	< 5	< 10	74	0.09	< 10	< 10	212	< 5	137
L30+OON 12+OOW	201 238	< 1	0.02	10	730	6	< 5	< 10	22	0.17	< 10	< 10	58	< 5	56
L30+5ON 05+OOW	203 238	2	0.04	19	2090	6	< 5	< 10	82	0.21	< 10	< 10	90	< 5	113
L30+5ON 10+OOW	201 238	1	0.03	8	660	2	< 5	< 10	25	0.21	< 10	< 10	68	< 5	81
L30+5ON 12+OOW	203 238	< 1	0.05	12	2780	6	< 5	< 10	95	0.19	< 10	< 10	76	< 5	90
L31+OON 05+OOW	217 238	< 1	0.08	40	3680	2	< 5	10	335	0.10	< 10	< 10	49	< 5	120
L31+OON 05+5OW	201 238	2	0.02	10	4230	14	< 5	< 10	38	0.17	< 10	< 10	72	< 5	99
L31+OON 06+OOW	201 238	< 1	0.04	12	2520	2	< 5	10	55	0.21	< 10	< 10	83	< 5	94
L31+OON 06+5OW	201 238	< 1	0.05	16	490	4	< 5	20	31	0.26	< 10	< 10	81	< 5	86
L31+OON 07+OOW	201 238	< 1	0.03	9	710	4	< 5	< 10	19	0.17	< 10	< 10	56	< 5	58
L31+OON 07+5OW	201 238	< 1	0.11	18	3360	2	< 5	< 10	138	0.12	< 10	< 10	40	< 5	184
L31+OON 08+OOW	201 238	< 1	0.02	7	540	< 2	< 5	< 10	23	0.17	< 10	< 10	62	< 5	72
L31+OON 08+5OW	201 238	3	0.04	29	2290	14	< 5	10	79	0.13	< 10	< 10	71	< 5	213
L31+OON 09+OOW	203 238	< 1	0.05	9	710	8	< 5	< 10	32	0.16	< 10	< 10	55	< 5	56
L31+OON 09+5OW	201 238	< 1	0.02	9	880	2	< 5	< 10	28	0.22	< 10	< 10	64	< 5	105
L31+OON 10+OOW	201 238	< 1	0.03	10	920	6	< 5	< 10	38	0.22	< 10	< 10	65	< 5	64
L31+OON 10+5OW	201 238	1	0.01	13	1350	2	< 5	10	58	0.08	< 10	< 10	15	< 5	84
L31+OON 11+OOW	201 238	< 1	0.01	< 1	2610	< 2	< 5	< 10	11	0.06	< 10	< 10	36	< 5	21
L31+OON 11+5OW	201 238	17	0.01	67	1410	6	< 5	< 10	48	0.13	< 10	< 10	93	< 5	126
L31+OON 12+OOW	201 238	< 1	0.01	21	4210	8	< 5	< 10	28	0.24	< 10	< 10	122	< 5	100
L31+5ON 05+OOW	201 238	6	0.01	79	2380	8	< 5	10	54	0.14	< 10	< 10	132	< 5	115
L31+5ON 10+OOW	201 238	< 1	0.02	11	2040	8	< 5	< 10	350	0.16	< 10	< 10	45	< 5	179
L32+OON 05+OOW	201 238	3	0.07	151	1760	10	< 5	20	158	0.15	< 10	< 10	94	< 5	198
L32+OON 05+5OW	201 238	1	0.02	10	1030	2	< 5	< 10	36	0.15	< 10	< 10	93	< 5	95
L32+OON 06+OOW	201 238	1	0.02	2	1790	< 2	< 5	< 10	32	0.10	< 10	< 10	57	< 5	61
L32+OON 06+5OW	201 238	8	0.03	58	1940	2	5	10	276	0.16	< 10	< 10	102	< 5	44
L32+OON 07+OOW	201 238	< 1	0.04	14	890	< 2	< 5	< 10	30	0.22	< 10	< 10	69	< 5	61
L32+OON 07+5OW	201 238	1	0.03	16	580	6	< 5	< 10	26	0.16	< 10	< 10	55	< 5	51
L32+OON 08+OOW	201 238	< 1	0.02	4	880	6	< 5	< 10	23	0.09	< 10	< 10	67	< 5	49

CERTIFICATION :



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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
 VANCOUVER, B.C.
 V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK

CC: RUDY RIEPE

Page No. : 5-A

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Date : 14-OCT-87

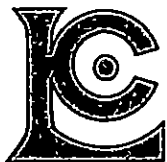
Invoice #: I-8723745

P.O. #: NONE

CERTIFICATE OF ANALYSIS A8723745

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
L32+OON 08+50W	201 238	< 5	3.85	< 0.2	10	60	< 0.5	2	0.47	0.5	16	19	23	3.75	< 10	< 1	0.05	< 10	1.22	526
L32+OON 09+00W	201 238	< 5	2.04	< 0.2	< 5	80	< 0.5	< 2	0.63	0.5	13	3	23	2.94	< 10	< 1	0.09	< 10	0.51	758
L32+OON 09+50W	201 238	< 5	3.53	< 0.2	15	110	< 0.5	< 2	0.26	0.5	14	22	22	3.22	< 10	< 1	0.07	< 10	0.71	827
L32+OON 10+00W	201 238	300	6.25	< 0.2	5880	10	< 0.5	< 2	0.04	< 0.5	11	3	867	>15.00	< 10	< 1	0.02	< 10	0.26	875
L32+OON 10+50W	201 238	25	2.82	< 0.2	75	100	< 0.5	2	0.48	0.5	13	24	36	3.52	< 10	< 1	0.08	10	0.63	625
L32+OON 11+00W	201 238	100	2.92	< 0.2	< 5	90	< 0.5	< 2	0.36	< 0.5	11	19	22	2.68	< 10	< 1	0.09	< 10	0.61	497
L32+OON 11+50W	201 238	< 5	3.60	< 0.2	5	140	< 0.5	< 2	0.41	< 0.5	14	24	28	3.37	< 10	< 1	0.13	< 10	0.77	427
L32+OON 12+00W	201 238	< 5	1.70	< 0.2	< 5	60	< 0.5	< 2	0.25	< 0.5	7	14	9	2.37	< 10	< 1	0.05	< 10	0.25	531
L32+50N 05+00W	201 238	< 5	3.22	0.2	25	260	< 0.5	< 2	4.09	3.5	16	99	30	3.65	< 10	< 1	0.02	< 10	0.19	814
L32+50N 10+00W	201 238	< 5	1.34	< 0.2	20	60	< 0.5	< 2	0.39	0.5	12	3	9	1.93	< 10	< 1	0.04	< 10	0.25	3210
L32+50N 12+00W	201 238	10	2.68	< 0.2	< 5	60	< 0.5	4	0.27	< 0.5	11	20	22	3.13	< 10	< 1	0.07	< 10	0.50	494
L33+OON 05+00W	201 238	< 5	0.21	< 0.2	5	10	< 0.5	< 2	3.43	8.0	< 1	16	36	0.25	< 10	< 1	< 0.01	< 10	0.03	20
L33+OON 05+50W	201 238	< 5	0.14	< 0.2	5	10	< 0.5	< 2	3.13	1.0	< 1	2	17	0.38	< 10	< 1	0.01	< 10	0.03	10
L33+OON 06+00W	201 238	< 5	2.61	< 0.2	< 5	60	< 0.5	< 2	0.35	< 0.5	9	21	16	4.09	< 10	< 1	0.06	< 10	0.44	228
L33+OON 06+50W	201 238	< 5	4.24	< 0.2	10	60	< 0.5	2	1.17	0.5	14	42	29	4.13	< 10	< 1	0.03	< 10	0.38	239
L33+OON 07+00W	201 238	10	2.18	< 0.2	5	50	< 0.5	< 2	0.28	< 0.5	8	15	11	2.58	< 10	< 1	0.06	< 10	0.45	240
L33+OON 07+50W	201 238	10	0.15	< 0.2	5	10	< 0.5	< 2	4.81	6.5	< 1	12	17	0.20	< 10	< 1	0.01	< 10	0.03	199
L33+OON 08+00W	201 238	< 5	1.99	< 0.2	< 5	40	< 0.5	< 2	0.24	0.5	10	15	13	2.70	< 10	< 1	0.04	< 10	0.31	305
L33+OON 08+50W	201 238	< 5	3.01	< 0.2	10	90	< 0.5	< 2	0.43	1.0	14	29	26	3.49	< 10	< 1	0.06	< 10	0.56	480
L33+OON 09+00W	201 238	< 5	3.48	< 0.2	25	210	< 0.5	< 2	0.90	< 0.5	32	1	42	5.38	< 10	1	0.06	< 10	0.98	1835
L33+OON 09+50W	201 238	< 5	3.26	< 0.2	5	60	< 0.5	4	0.39	0.5	15	22	31	2.77	< 10	< 1	0.05	< 10	0.84	734
L33+OON 10+00W	201 238	30	2.41	< 0.2	15	110	< 0.5	2	0.56	0.5	12	3	44	3.83	< 10	< 1	0.04	< 10	0.72	1780
L33+OON 10+50W	201 238	5	3.36	< 0.2	15	80	< 0.5	2	0.47	0.5	15	22	37	3.43	< 10	< 1	0.10	< 10	0.84	726
L33+OON 11+00W	201 238	< 5	1.63	< 0.2	< 5	30	< 0.5	< 2	0.20	< 0.5	6	10	12	1.68	< 10	< 1	0.04	< 10	0.23	212
L33+OON 11+50W	201 238	< 5	1.81	< 0.2	< 5	40	< 0.5	< 2	0.28	< 0.5	7	13	14	2.08	< 10	< 1	0.07	< 10	0.43	232
L33+OON 12+00W	201 238	< 5	1.01	< 0.2	< 5	10	< 0.5	< 2	0.15	< 0.5	3	5	4	1.17	< 10	< 1	0.01	< 10	0.11	220

CERTIFICATION :



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To: ARCTEX ENGINEERING

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V6K 3M3

Project: QUADRA

Comments: CC: PAUL KALLOCK

CC: RUDY RIEPE

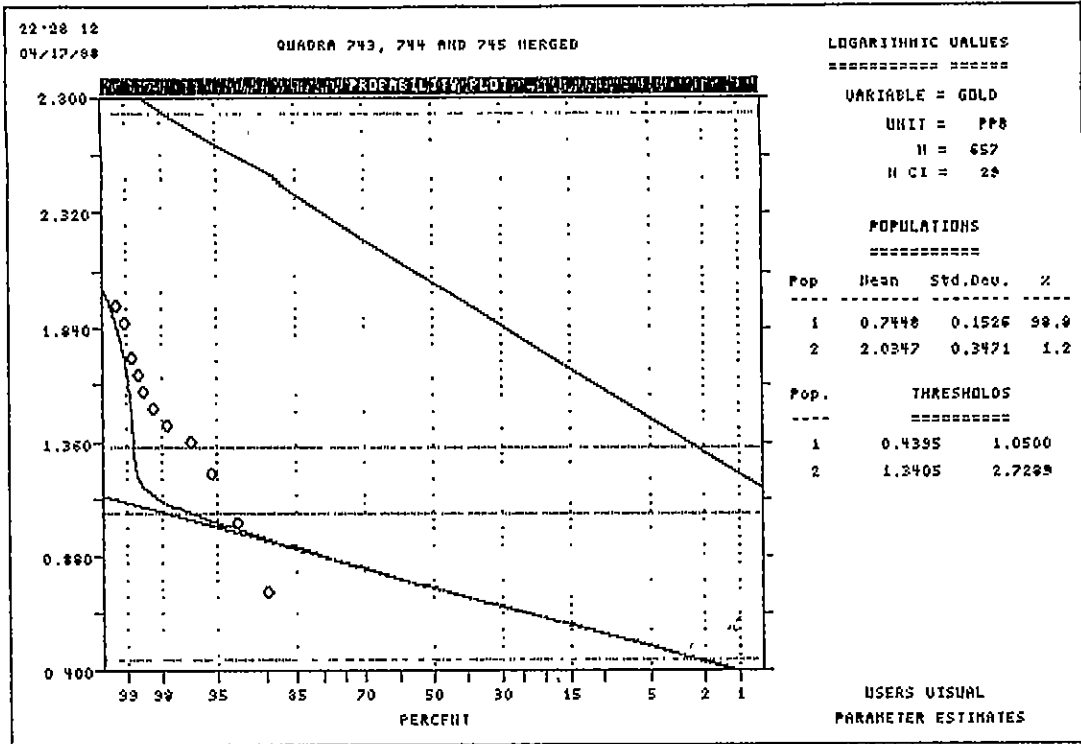
Page No. : 5-B
Tot. Pages: 5
Date : 14-OCT-87
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P.O. # : NONE

CERTIFICATE OF ANALYSIS A8723745

SAMPLE DESCRIPTION	PREP CODE	Mb ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L32+00N 08+50W	201 238	< 1	0.04	16	1220	4	< 5	< 10	67	0.20	< 10	< 10	97	< 5	112
L32+00N 09+00W	201 238	< 1	0.03	3	1400	2	< 5	< 10	54	0.20	< 10	< 10	63	< 5	158
L32+00N 09+50W	201 238	1	0.01	23	1800	4	< 5	< 10	28	0.15	< 10	< 10	61	< 5	213
L32+00N 10+00W	201 238	4	< 0.01	3	4880	6	< 5	< 10	5	0.05	< 10	10	19	< 5	226
L32+00N 10+50W	201 238	1	0.04	11	620	6	5	< 10	42	0.26	< 10	< 10	80	< 5	91
L32+00N 11+00W	201 238	< 1	0.03	10	770	4	< 5	10	28	0.19	< 10	< 10	63	< 5	62
L32+00N 11+50W	201 238	< 1	0.04	12	980	2	< 5	< 10	29	0.24	< 10	< 10	74	< 5	77
L32+00N 12+00W	201 238	< 1	0.02	5	1860	4	< 5	10	25	0.12	< 10	< 10	57	< 5	57
L32+50N 05+00W	201 238	1	0.02	140	1920	10	< 5	10	426	0.18	< 10	< 10	365	< 5	199
L32+50N 10+00W	201 238	< 1	0.02	5	780	40	< 5	10	28	0.13	< 10	< 10	45	< 5	67
L32+50N 12+00W	201 238	< 1	0.02	11	2060	2	< 5	< 10	20	0.16	< 10	< 10	69	< 5	87
L33+00N 05+00W	201 238	17	0.02	52	670	< 2	5	80	165	< 0.01	< 10	90	73	< 5	7
L33+00N 05+50W	201 238	8	0.02	1	760	6	< 5	40	176	< 0.01	< 10	30	123	< 5	7
L33+00N 06+00W	201 238	4	0.03	9	240	4	< 5	< 10	22	0.29	< 10	< 10	102	< 5	48
L33+00N 06+50W	201 238	3	0.02	59	750	6	< 5	< 10	45	0.19	< 10	< 10	199	< 5	88
L33+00N 07+00W	201 238	1	0.02	8	250	< 2	< 5	< 10	21	0.17	< 10	< 10	62	< 5	48
L33+00N 07+50W	201 238	2	0.02	18	1040	10	< 5	40	271	< 0.01	< 10	20	15	< 5	42
L33+00N 08+00W	201 238	< 1	0.02	6	300	4	< 5	10	18	0.17	< 10	< 10	62	< 5	72
L33+00N 08+50W	201 238	4	0.03	38	1660	10	< 5	< 10	41	0.19	< 10	< 10	139	< 5	194
L33+00N 09+00W	201 238	< 1	0.15	7	2680	6	< 5	10	292	0.18	< 10	< 10	113	< 5	169
L33+00N 09+50W	201 238	1	0.01	30	1510	10	< 5	< 10	54	0.12	< 10	< 10	48	< 5	55
L33+00N 10+00W	201 238	< 1	0.02	1	670	10	< 5	< 10	110	0.18	< 10	< 10	75	< 5	134
L33+00N 10+50W	201 238	< 1	0.04	12	1340	< 2	< 5	< 10	35	0.23	< 10	< 10	81	< 5	84
L33+00N 11+00W	201 238	< 1	0.02	3	590	2	< 5	< 10	16	0.11	< 10	< 10	41	< 5	31
L33+00N 11+50W	201 238	< 1	0.03	7	550	2	< 5	10	20	0.13	< 10	< 10	53	< 5	39
L33+00N 12+00W	201 238	< 1	0.01	2	950	2	< 5	< 10	13	0.06	< 10	< 10	28	< 5	19

CERTIFICATION :

GOLD



22:29:59 QUADRA 743, 744 AND 745 MERGED 04/17/88

#####

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = QUAD4.DAT

Variable = GOLD Unit = PPB N = 657
N CI = 29

Transform = Logarithmic Number of Populations = 2

of Missing Observations = 0.

Users Visual Parameter Estimates

Population	Mean	Std Dev	Percentage
1	5.556	3.909	98.80
		+ 7.896	
2	108.320	48.708	1.20
		+ 240.888	

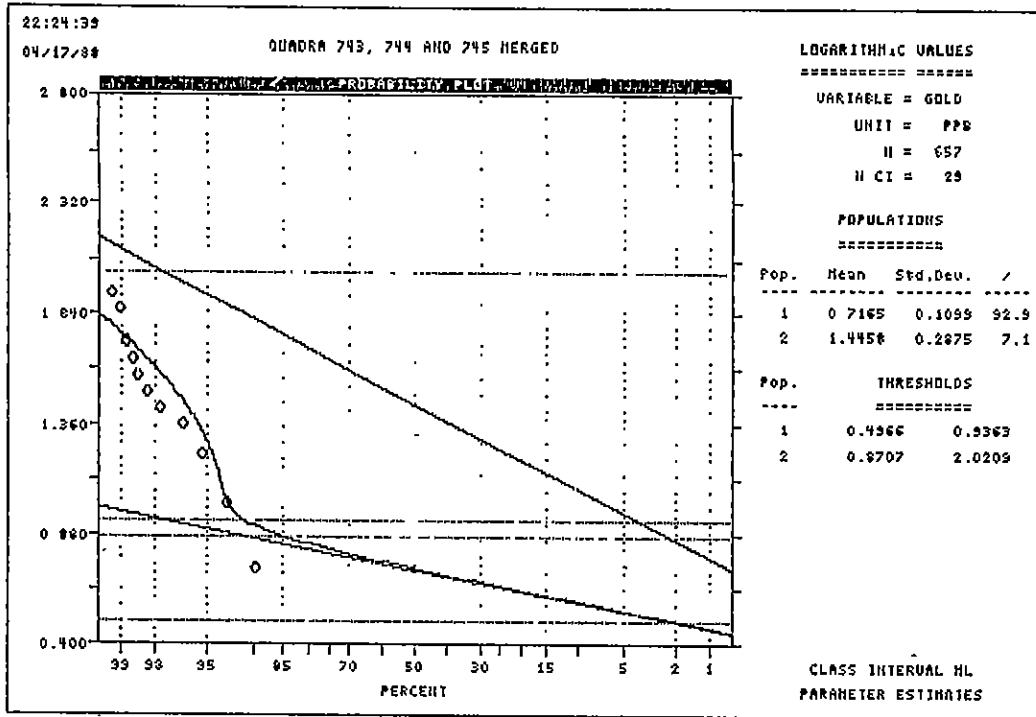
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Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	2.751	11.221
2	21.903	535.700

#####

GOLD



22:26:56 QUADRA 743, 744 AND 745 MERGED 04/17/88

#####

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = QUAD4.DAT

Variable = GOLD Unit = PPB N = 657
N CI = 29

Transform = Logarithmic Number of Populations = 2

of Missing Observations = 0.

=====

Class Interval Data Maximum Likelihood Parameter Estimates

Maximum LN Likelihood Value = -1200.775

Parameterized Degrees of Freedom = 3

Population	Mean	Std Dev	Percentage
1	5.206	4.042	92.87
		6.705	
2	27.913	14.397	7.13
		54.119	

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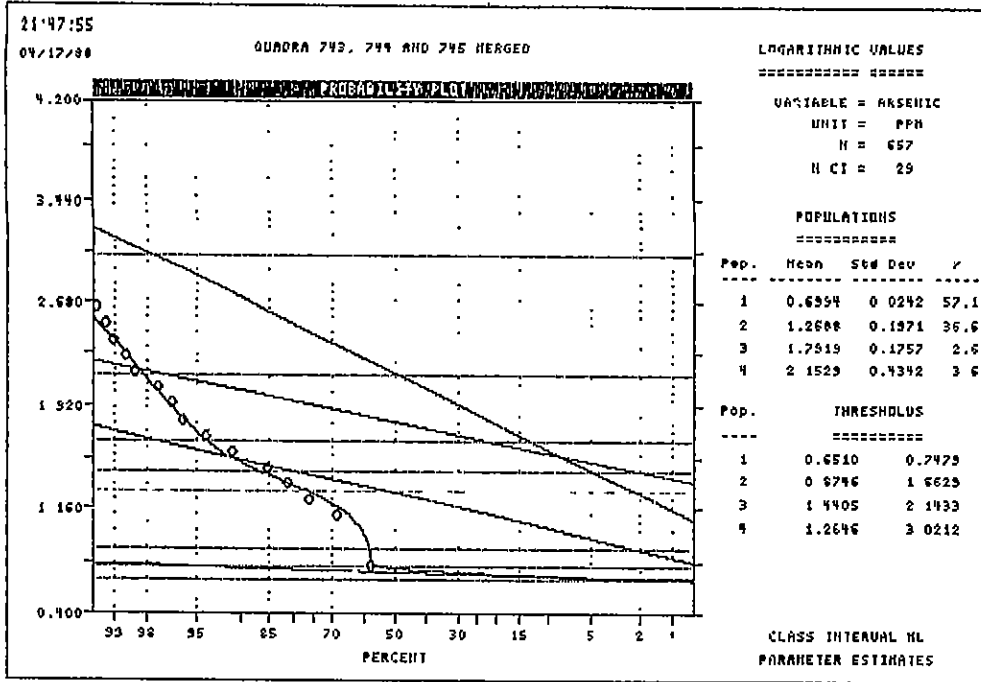
Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds
1	3.138 8.636
2	7.426 104.927

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ARSENIC



21:49:41 QUADRA 743, 744 AND 745 MERGED 04/17/88

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PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = QUAD4.DAT

Variable = ARSENIC Unit = PPM N = 657
N CI = 29

Transform = Logarithmic Number of Populations = 4

of Missing Observations = 0.

=====

Class Interval Data Maximum Likelihood Parameter Estimates

Maximum LN Likelihood Value = -1102.663

Parameterized Degrees of Freedom = 7

Population	Mean	Std Dev	Percentage
1	5.005	4.734	57.13
		+ 5.293	
2	18.568	11.795	36.62
		+ 29.231	
3	61.934	41.327	2.63
		+ 92.818	
4	142.212	52.334	3.62
		+ 386.447	

=====

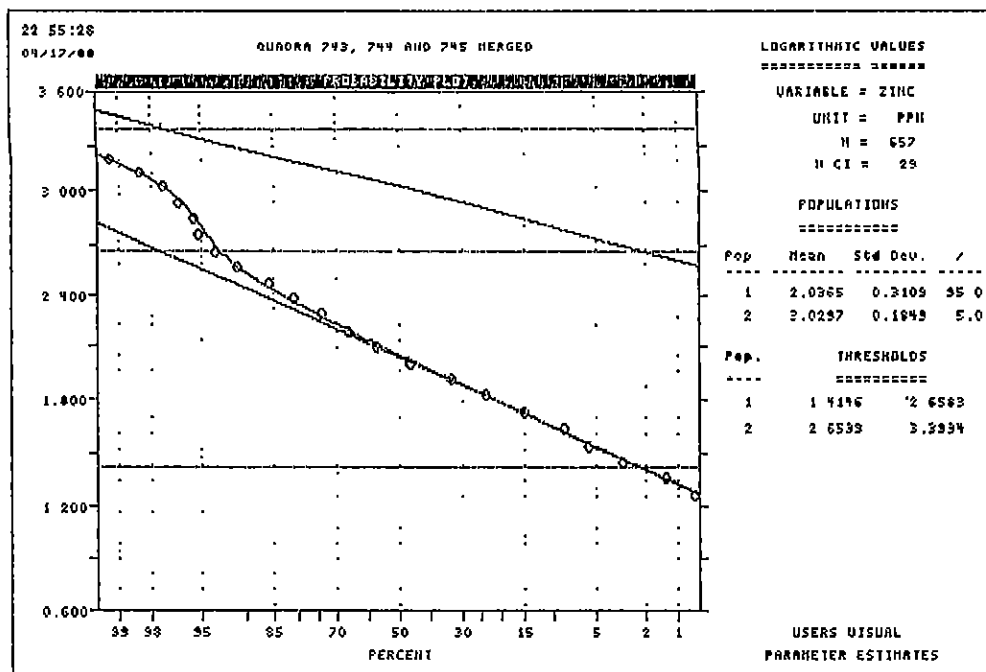
Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	4.477	5.596
2	7.493	46.016
3	27.576	139.101
4	19.259	1050.127

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ZINC



22:57:18 QUADRA 743, 744 AND 745 MERGED 04/17/88

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PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = QUAD4.DAT

Variable = ZINC Unit = PPM N = 657
N CI = 29

Transform = Logarithmic Number of Populations = 2

of Missing Observations = 0.

Users Visual Parameter Estimates

Population	Mean	Std Dev	Percentage
1	108.763	- 53.157 + 222.537	95.00
2	1070.730	- 699.524 + 1638.919	5.00

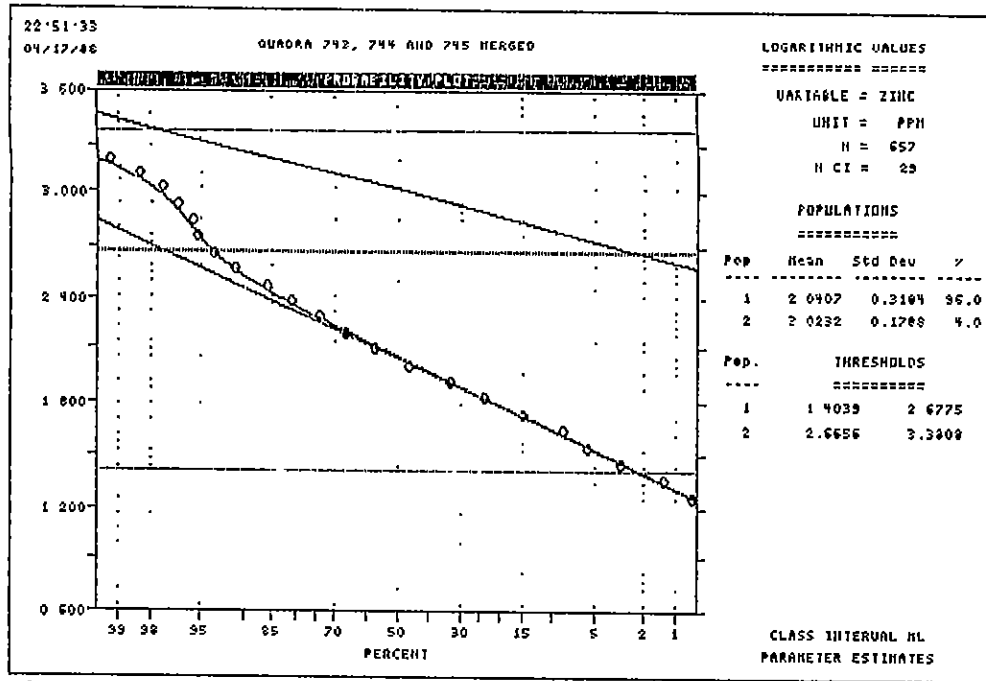
Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	25.980	455.327
2	457.010	2500.619

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ZINC



22:53:24 QUADRA 743, 744 AND 745 MERGED 04/17/88

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PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = QUAD4.DAT

Variable = ZINC Unit = PPM N = 657
N CI = 29

Transform = Logarithmic Number of Populations = 2

of Missing Observations = 0.

Class Interval Data Maximum Likelihood Parameter Estimates

Maximum LN Likelihood Value = -1811.655

Parameterized Degrees of Freedom = 3

Population	Mean	Std Dev	Percentage
1	109.027	52.760	95.95
2	1054.778	698.809	4.05

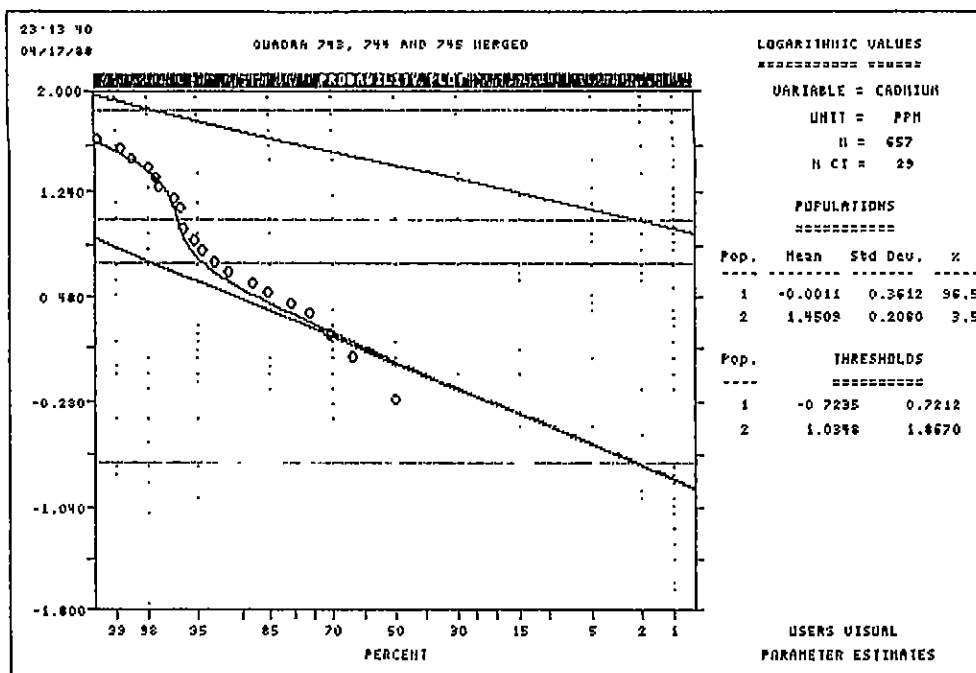
Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds
1	25.346 475.897
2	462.974 2403.069

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CADMIUM



23:15:20 QUADRA 743, 744 AND 745 MERGED 04/17/80

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PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = QUAD4.DAT

Variable = CADMIUM Unit = PPM N = 657
N CI = 29

Transform = Logarithmic Number of Populations = 2

of Missing Observations = 0.

Users Visual Parameter Estimates

Population	Mean	Std Dev	Percentage
1	0.997	- 0.434	96.50
		+ 2.291	
2	28.243	- 17.493	3.50
		+ 45.599	

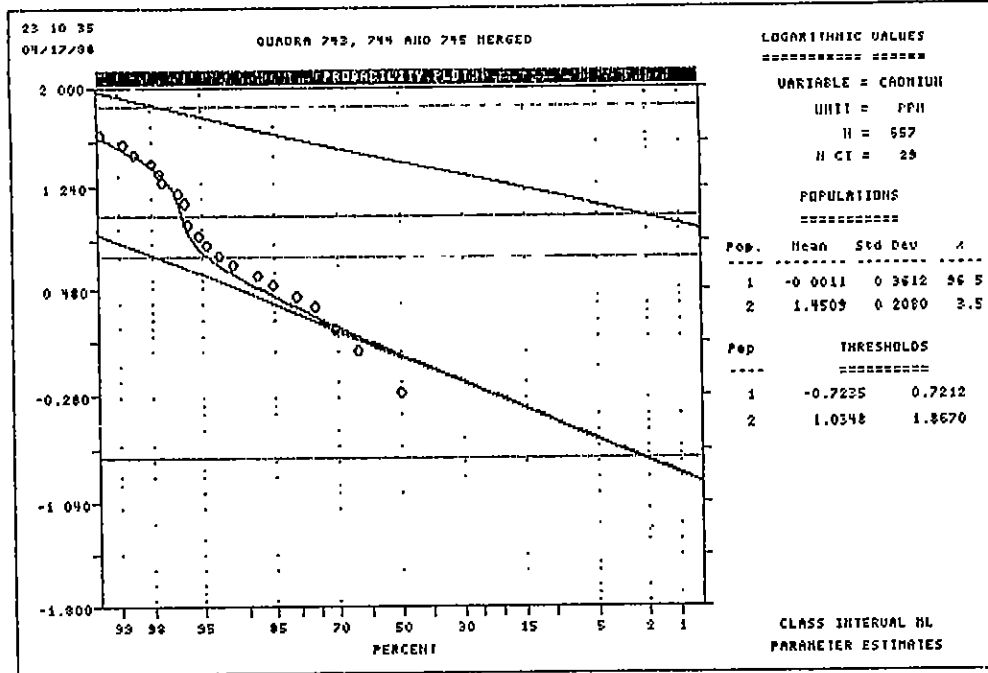
Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds
1	0.189 5.263
2	10.835 73.621

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CADMIUM



23:12:22

QUADRA 743, 744 AND 745 MERGED

04/17/88

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PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = QUAD4.DAT

Variable = CADMIUM Unit = PPM N = 657
N CI = 29

Transform = Logarithmic Number of Populations = 2

of Missing Observations = 0.

===== Class Interval Data Maximum Likelihood Parameter Estimates

Maximum LN Likelihood Value = -2019.036

Parameterized Degrees of Freedom = 3

Population	Mean	Std Dev	Percentage
1	0.997	- 0.434 + 2.291	96.50
2	28.243	- 17.493 + 45.899	3.50

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.189	5.263
2	10.835	73.621

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ROCK SAMPLE DESCRIPTIONS

Sample Number	Sample Width	Description	Au, oz/ton*
Great Gold Showing:			
2+70N 2+15E	1.1 m	Grey mottled, almost porphyritic, very fine-grained volcanic (?) strongly siliceous with 3-5% pervasive disseminated pyrite.	<0.002
2+70N 2+20E	2.0 m	Includes 0.75 m of limestone with strong iron oxide, 1.25 m of siliceous fine-grained metasediment with chlorite and 5% pyrite.	0.002
2+90N 2+20E	1.1 m	Pink and green silicified metasediment with 10% pyrite and pyrrhotite, strong black calcite and chlorite.	<0.002
3+00N 0+50E		Grab sample of dump of old trench, fine-grained skarn, silicified limestone with 1% pyrite.	0.002
3+05N 2+35E	0.35 m	Mixed green, purple and grey very fine-grained banded siliceous metasediment with 2-5% pyrite.	<0.002
3+06N 2+38E	1.5 m	Dark, fine-grained siliceous metasediment, strong iron stain, trace pyrite.	<0.002
4+99N 1+13E	2.4 m	Quartz with 5-10% pyrite, 5-10% chalcopyrite, traces bornite; in contact with granite and limestone.	0.048
5+00N 1+14E	1.7 m	3.3m north of previous sample, 20% chalcopyrite hosted in andesite porphyry (thin section suggests quartz latite porphyry); limestone on footwall.	0.036
5+09N 1+04E	1.7 m	5-8% massive chalcopyrite, lesser pink garnet (?) hosted in silicified andesite (?), granite on west wall.	0.191
5+10N 1+05E	2.0 m	Continues from previous sample; 15-20% massive chalcopyrite, lesser pyrite, abundant quartz.	0.100
5+10N 1+55E	1.2 m	Includes two narrow (5-10 cm) skarn beds in soft siltstones and silty limestone, 3-5% pyrite.	0.002
5+50N 0+78E	1.75 m	E-W horizontal chip sample includes 0.15 m of 5% chalcopyrite in green siliceous rock; west wall of trench is coarse-grained granodiorite; bulk of sample is pink and green skarn.	0.002
5+50N 0+80E	4.0 m	E-W horizontal chip continuous from previous sample, mostly pink and green skarn, trace of chalcopyrite as small pods.	0.008

*For additional elements see Geochemistry Certificates.

Sample Number	Sample Width	Description	Au, oz/ton*
Great Gold Showing (cont.)			
5+53N 0+79E	1.5 m	Skarn with 1-5% chalcopyrite; same vein as 5+50N 0+78E.	0.002
5+56N 0+73E	1.5 m	Chip may have approximately 1.0 m true width; 3-5% chalcopyrite in skarn, local quartz + limonite.	0.044
5+75N 0+78E	1.5 m	Greenish fine-grained siliceous metasediment and skarn; locally up to 15 cm of 5-8% chalcopyrite and 5% pyrite.	0.006
5+75N 0+80E	1.15 m	Continuous from previous sample; weathered calcareous argillites with skarn and 10% pyrite, 5% chalcopyrite.	0.010
5+80N 0+58E	1.1 m	Greenish, silicified metasediment, minor skarn, 5-10% chalcopyrite, 5% pyrite, adjoins limestone to west.	0.048
6+12N 0+62E	2.0 m	E-W horizontal sample on south wall of old trench or caved adit, hard to soft weathered skarn, minor quartz.	0.004
6+15N 0+65E	2.0 m	N-S horizontal sample on east wall of caved adit (?), mostly tan skarn, minor quartz.	0.002
6+18N 0+54E	0.9 m	N-S chip sample east side of old trench; pink, green and tan skarn with locally up to 5% chalcopyrite.	0.030
6+22N 0+54E		Representative sample of dump below (north) of previous sample, 10% chalcopyrite in skarn.	0.014
GEX Area (southern half of Quadra property)			
<i>Trench T-14-01, north end of GEX claim area:</i>			
23+50N 1+25W	1.0 m	Chip sample in old 2 m X 1.5 m X 0.5 m trench; is east of three T-14-01 trenches; vuggy dark moderately siliceous andesite with 10% pyrite in irregular quartz veinlets.	0.496
1+35W 23+00N		Select sample in west of three trenches as described above; andesite with 5% pyrite and greenish yellow oxide.	210 ppb Au

*For additional elements see Geochemistry Certificates.

Sample Number	Sample Width	Description	Au, oz/ton*
<i>GEX Area (cont.)</i>			
<i>Other samples in northern GEX area:</i>			
24+05N 0+90E		Near old survey Q11R, 0.25 m chip in old 2 m X 2 m X 1 m blast pit; 5% pyrite in andesite.	0.006
20+00N 2+25W		Select of old dump, bull quartz with 10% pyrite, 3-5% chalcopyrite; near 3 m X 3 m X 3 m pit; old survey Q52R.	<0.002
<i>Bull Quartz Showing, north of Village Bay Road, west of September Lake:</i>			
11+86N 0+50E	1.5 m	Bull quartz hosted in andesite, 1% pyrite in quartz, 1% pyrrhotite in andesite.	0.006
12+00N 0+50E	0.1 m	Quartz trending N70°E 60°N with 3% pyrite, 2% chalcopyrite; host is andesite, limestone within 5 m.	0.002
12+10N 0+60E	0.75 m	Chip sample of quartz with strong limonite.	0.154
<i>GEX Soil Geochemical Grid Area:</i>			
32+31N 10+33W		14-05 Trench area, trench 2A, select sample of massive arsenopyrite and pyrite.	0.030
32+30N 10+34W		14-05 Trench area, trench 2A, 2.7 m chip of dark siliceous andesite with 10-20% pyrite, 5% arsenopyrite, previous sample is select from this zone.	0.002
32+14N 10+14W		14-05 Trench area, Trench X 1.75 m chip, <5% pyrite trending N15°W, limestone on south, andesite on north wall.	0.002
31+96N 10+11W		14-05 Trench area, Trench V 2.0 m chip sample of andesite with 3% pyrite, pyrrhotite, strong limonite.	0.032
91+96N 10+09W		Same as above, 2.0 m continuation to east.	0.004
30+15N 12+00W		Select sample of 20% pyrite in dark siliceous andesite, strong limonite.	<0.002

*For additional elements see Geochemistry Certificates.

Sample Number	Sample Width	Description	Au, oz/ton*
GEX Soil (cont.)			
23+00N 4+75W		Along road to Open Bay in west bank, siliceous breccia with limestone clasts hosted in limestone, 10% pyrite, grab sample.	0.026
13+25N 5+50W		Grab sample of coarse-grained granite with 3-5% pyrite, located along Open Bay Road.	0.002
GEX 6+00W 7+80N		Grab sample, moderately silicified andesite with 2% pyrite.	<5 ppb Au
8+04W 8+00N		Chip of 2 m ² area near previous soil anomaly; andesite outcrop with quartz veinlets, limonite on fractures and 1% pyrite in west to southwest cross-cutting fractures, ridges and outcrops trend N20°W. Note: Soil re-sample contained 2270 ppb Au.	<5 ppb Au
9+10W 3+70S		Near beach at Open Bay, 10 m west of following sample, 0.35 m chip across E-W shear zone 10% pyrite, moderately siliceous.	<5 ppb Au
3+70S 9+00W	0.2 m	Chip across shear zone in andesite, several marble clasts in shear; 15% pyrite, locally up to 25% pyrite in calcareous sections; north wall is altered and fractured for up to 3.0 m with calcite, epidote and limonite.	0.126
"Epithermal Zone", GEX Grid:			
4+75N 4+55W	0.3 m	Soft iron oxide in fractured tan dyke hosted in dark grey limestone.	0.008
4+90N 4+52W	2.0 m	Chip perpendicular to road, tan, soft, weathered and locally siliceous breccia (?) with moderate clay, 10% fine pyrite, occasional limestone pod, local yellow-green arsenic (?) oxide.	<0.002
4+96N 4+51W	3.0 m	Hard dark grey siliceous fine-grained brecciated volcanic (?), shows iron and arsenic oxide, local 3-5% pyrite; may represent hangingwall side of previous sample.	<0.002
5+10N 4+55W	0.75 m	Vertical chip sample of shear zone in soft weathered limestone.	0.002

*For additional elements see Geochemistry Certificates.

Sample Number	Sample Width	Description	Au, oz/ton*
<i>"Epithermal Zone" (cont.)</i>			
<i>5+61N 4+65W</i>	<i>1.0 m</i>	<i>Siliceous rhyolite (?) dyke with 5% pyrite, dark grey limestone host.</i>	<i><0.002</i>
<i>6+00N 4+75W</i>	<i>1.5 m</i>	<i>Similar to above.</i>	<i><0.002</i>
<i>6+15N 4+80W</i>	<i>4.5 m</i>	<i>Similar to above.</i>	<i>0.002</i>

**For additional elements see Geochemistry Certificates.*

LONE JACK RESOURCES LTD. - QUADRA ISLAND PROJECT

QUADRA ISLAND, B.C.

GREAT GOLD SHOWING

Azimuth: 060°

Angle: -46°

Total Length: 49.70 m (163.0 ft)

Core Storage: Sechelt, B.C.

Logged By: P. Kallock

Metres		Rock Type	Alteration / Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
0.00	3.05	Casing.					
3.05	3.35	Grey, fine-grained crystalline limestone.					
3.35	3.41	Dark grey-green andesite.	Light green diopside on margins.				
3.41	3.48	Grey crystalline limestone.					
3.48	3.51	Dark grey andesite.					
3.51	3.61	Grey crystalline limestone.					
3.61	3.66	Dark grey andesite.					
3.66	4.27	Grey crystalline limestone.					
4.27	4.36	Dark grey andesite.					
4.36	4.57	Grey crystalline limestone.					
4.57	4.88	Dark grey andesite.	4.70-4.73 (15.4'-15.5') Bleached selvage adjacent to quartz veinlet at 70°.				
4.88	6.40	Grey crystalline limestone.					
6.40	6.46	Dark grey andesite.					
6.46	6.92	Grey crystalline limestone.					
6.92	8.38	Dark grey andesite, 2-5% light green feldspar phenocrysts less than 1 mm in diameter, grey to black groundmass.					

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
8.38	8.69	Light grey-green andesite porphyry, feldspars = 10%, 3 mm in diameter.	Cut by 2-5 cm chalcopyrite, pyrite bornite vein at 30°-40°; quartz to 20% - 8.38-8.69 m (27.5'-28.5').	1.30%	0.58 oz/ton		0.020 oz/ton
8.69	24.70	dark grey andesite 3-6%.	Light green feldspar phenocrysts.				
24.70	24.94	Coarse-grained quartz diorite, sharp contact with andesite above; below is foliated andesite (?) 4 cm wide at 45° in contact with quartz diorite.	2-3% irregular pyrite diss. and patches in the 4 cm andesite.				
24.94	27.74	Dark grey andesite as above, foliated 45° contact (~5 cm) with quartz diorite below.	30.34 m - trace diss. pyrite. Trace diss. pyrite.				
27.74	33.69	Coarse-grained quartz diorite, as above, 20% hornblende, slightly chloritic.	1-2 cm quartz veins at 30.34 m (89.5') and 30.79 m (101.0').				
33.69	40.24	Dark fine-grained andesite as above, minor small feldspar phenocrysts. Upper contact with quartz diorite at 30°. Poor core recovery through silicified contact zone between 39.02m (128.0') and 41.16m (135.0').	Occasional bleached zone 1-5 cm as at 35.37 m (116.0'). Andesite becomes grey-green with more chlorite and weakly epidotized phenocrysts below 38.11 m (125.0').				
40.24	42.38	Grey fine crystalline limestone or marble; lower contact at 45°.	5 cm quartz with chlorite at upper contact.				
42.38	47.71	Light grey-green andesite with 5% 1mm size diss. feldspar phenocrysts which alter to light greenish-tan.	Occasional quartz vein to 2 cm as at 48.09 m (161.0') and minor pyrite on fractures as at 49.24 m (161.5').				

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
47.71	49.70	<i>Weak to moderately foliated coarse-grained quartz diorite. Foliation at 65°. Moderate chlorite and epidote alteration of mafics.</i>					
49.70		<i>End of hole.</i>					

LONE JACK RESOURCES LTD. - QUADRA ISLAND PROJECT

QUADRA ISLAND, B.C.

GREAT GOLD SHOWING

Azimuth: -

Angle: -90°

Total Length: 82.93 m (272.0 ft)

Core Storage: Sechelt, B.C.

Logged By: P. Kallcock

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm,ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
0.00	3.05	Casing - no core.					
3.05	9.05	Grey andesite, weak to moderate chloritic alteration of mafics including weak epidote. Lower contact with marble is sharp at 30°.					
9.05	12.13	Grey finely crystalline limestone (marble). 9.70 - 5 cm diopside garnet skarn adjacent to 5 cm andesite dyke at 45°.					
12.13	12.29	Garnet-diopside skarn, fine-grained reddish brown garnet at 60° contact with marble.					
12.29	12.59	Andesite porphyry, 5-7 mm feldspar phenocrysts 20%.					
12.59	14.02	Light greenish-grey to pinkish green aphanitic, dense, siliceous skarn (or altered rhyolite?) commonly with <1% very fine-grained diss. pyrite. At 13.72 (45.0') layering ~25°.					
14.02	14.48	Silicified andesite porphyry.	3% diss. pyrrhotite; <1% diss. chalcopyrite.				

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
14.48	18.17	Coarse-grained granodiorite, less mafics, more quartz than diorite.	3-5% pyrrhotite and 1% chalcopyrite between 14.46-14.63 m (47.5-48.0').				
18.17	21.95	Fine-grained siliceous skarn, greenish-tan to light brown with streaks or beds (?) of dark gray siliceous aphanitic rock. Variable bedding or layering, e.g. 40° at 18.90 m (6.2'); 5° at 19.82 m (6.5'); 5° at 21.34 m (7.0').	Garnet diopside 1-7%.				
21.95	24.09	Grey, fine-grained siliceous limestone with minor skarn. Layering or bedding at 10°.					
24.09	37.5	Very fine-grained (aphanitic?) skarn or siliceous metasediment with 1-3% diss. pyrite pyrrhotite + chalcopyrite, commonly with patchy garnet-diopside skarn. Layering or bedding 35° at 23.32 m (76.5'); 35° at 30.49 m (100'); between 34.15-34.76 m (112.0-114.0') grey calcareous metasediment at 45°. 34.76-35.67 m (114.0-117.0') - siliceous metavolcanics, weakly calc., andesite(?). 35.67-37.50 m (117.0-123.0') - irregular skarn generally in layers 5-10 cm at 35-45°.	32.01-32.93 m (105-108') - Numerous pyritic stringers to 5%. 24.39-25.91 m (80-85') 25.91-27.44 m (85-90') 27.44-28.96 m (90-95') 28.96-30.49 m (95-100') 30.49-32.01 m (100-105') 32.01-33.54 m (105-110') 33.54-35.06 m (110-115') 35.06-36.59 m (115-120') 36.59-38.11 m (120-125')	84 108 247 295 147 149 82 46 62	0.2 0.5 0.6 0.2 0.1 0.3 0.1 0.1 0.1	30 50 33 30 15 17 25 15 14	<5 <5 <5 <5 <5 <5 <5 <5 <5
			Local pyrrhotite to 5%.				

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
37.5	39.94	Dark grey-brown meta andesite.	Local 3% sulphides. 38.11-39.63 m (125-130')	103	0.1	5	<5
39.94	40.55	Meta andesite interbedded with white metasediment (?) which is silicified and bleached.	39.63-41.16 m (130-135') 41.16-42.68 m (135-140') 42.68-44.21 m (140-145')	57 31 550	0.1 0.2 0.6	59 71 59	<5 <5 <5
40.55	43.60	White to brown skarn, fine-grained siliceous.	1% diss. sulphides.				
43.60	46.43	Similar to above but with grey fine-grained interlayers (limy) and coarser sporadic skarn with locally up to 10% sulphide.	44.21-45.73 m (145-150')	163	0.4	59	5
46.43	46.52	Dark grey andesite dyke, specks of feldspars, contacts at 45°.	45.73-47.87 m (150-157') 64.33-65.85 m (211-216')	38	0.1	22	<5
46.52	47.87	Coarse skarn.	20% diopside, 30-40% garnet, patches of sulphides at lower limestone contact.				
47.87	48.48	Grey fine-grained crystalline limestone, lower contact at 50°.					
48.48	49.09	Dark grey andesite, feldspar specks <2%; minor irregular limestone.					
49.09	54.27	Grey to white finely crystalline limestone bedding 50° at 51.22 m (168').					
54.27	56.10	Andesite porphyry, strong chlorite, local 2-3% pyrite-pyrrhotite; 15 cm skarn at top, 5 cm skarn at bottom.					

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
56.10	64.33	<i>White to grey crystalline limestone, commonly with pyrite-coated fractures.</i>	<i>60.37 m (198.0') - Several quartz veinlets. 64.33-64.42 m (211.0-211.3') - Shearing with skarn 2% sulphides.</i>				
64.33	65.85	<i>Skarn zone.</i>	<i>64.33-65.30 m (211.0-214.2') - Strong chlorite, some diopside with local quartz and 1-2% pyrite. 65.30-65.85 m (214.2-216.0') - Strong garnet 1-2% pyrite.</i>				
65.85	82.93	<i>Diorite gneiss, local mafic or siliceous concentrations. Foliation 45° at 67.68 m (222'), less foliated below 73.17 m (240').</i>					
82.93		<i>End of hole.</i>					

LONE JACK RESOURCES LTD. - QUADRA ISLAND PROJECT

QUADRA ISLAND, B.C.

GREAT GOLD SHOWING

Core Storage: Sechelt, B.C.

Logged By: P. Kallock

Azimuth: 063°
 Angle: -45°
 Total Length: 67.38 m (221.0')

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
0.00	8.54	Finely crystalline grey limestone or marble.					
8.54	9.15	Skarn - diopside and garnet to 80%.	Traces to 1/2 diss. chalcopyrite.				
9.15	12.13	Coarse-grained diorite.					
12.13	13.11	Skarn, fine-grained siliceous pale green, locally 5% chalcopyrite + 5% pyrite.	12.13-13.41 m (39.8-44.0')	3000	4.2	24	400
13.11	13.26	Dark, fine-grained basalt.	No phenocrysts, irregular contact.				
13.26	13.41	Skarn as above, <1% sulphides.					
13.41	14.94	Basalt as above. 13.75-13.81 m (45.1-45.3') - Chlorite-pyrrhotite vein at 45°.	14.94-16.46 m (49.0-54.0')	2220	2.8	11	1250
14.94	18.75	Skarn, pink and green (garnet-diopside), generally fine-grained except 18.29 to 18.75 m (60.0-61.5') - coarse garnet diopside.	16.46-18.75 m (54.0-61.5')	40	0.1	11	30
18.75	27.59	Dark grey limestone, locally siliceous, local garnet, chlorite, diopside bedding 65° at 26.52 m. Small dark fine-grained basalt or andesite dykes with local pods of pyrrhotite at 24.21-24.24m (79.4-79.5'); 24.45-24.63m (80.2-80.8'); 25.30-25.61 m (83.0-84.0').					

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
27.59	27.74	Skarn, fine-grained pink and green.					
27.74	30.34	Coarse-grained granodiorite, minor chlorite.					
30.34	35.61	Grey-green andesite, 5% green epidotized phenocrysts and occasional epidote veinlet.					
35.61	37.41	Coarse-grained granodiorite, occasional quartz pod or vein.					
37.41	38.11	Dark grey to black andesite or basalt, few phenocrysts, upper contact at 45°.					
38.11	38.26	Granodiorite, coarse-grained.					
38.26	38.35	Skarn, garnets, contact at 45°.					
38.35	38.72	Grey limestone.					
38.72	38.93	Skarn, fine-grained light green.					
38.93	39.73	Dark grey to black andesite or basalt, as above.	39.39-39.50 m (129.2-129.55') ~10 cm crystalline limestone with 3 cm massive pyrrhotite at 55°.	0.07%	0.01 oz/ton		<0.003 oz/ton
39.73	40.85	Limestone, finely crystalline.					
40.85	41.40	Skarn, limestone and andesite/basalt. Lower contact with granodiorite at 55°.	Local massive garnet to 7 cm, pyrite to 0.5 cm.				
41.40	53.96	Gneissic granodiorite, foliation at 70° at 41.46 m.					

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
		43.60-43.90 m (143.0-144.0') - Skarn, fine-grained, green diopside to coarse garnet.					
		44.36-45.73 m (145.5-150.0') - Basalt dyke.	Foliation in granodiorite, 65° at 50.00 m (164').				
53.96	56.40	Andesite 3-5% feldspar phenocrysts, grey groundmass.					
56.40	60.67	Andesite, <1% phenocrysts of hornblende, green groundmass, occasional quartz veinlet.					
60.67	62.5	Strong propylitic altered coarse-grained granodiorite, abundant chlorite and epidote.					
62.5	62.80	Skarn and grey limestone.	1% pyrite, 5% garnet.				
62.80	67.38	Grey to greenish-grey andesite, 1-2% large feldspar phenocrysts, common epidote.					
67.38		End of hole.					

LONE JACK RESOURCES LTD. - QUADRA ISLAND PROJECT

QUADRA ISLAND, B.C.

GREAT GOLD SHOWING

Azimuth: 090°
 Angle: -45°
 Total Length: 114.63 m (376.0')

Core Storage: Sechelt, B.C.

Logged By: P. Kallcock

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
0.00	6.10	Casing - no core.					
6.10	6.71	Andesite porphyry, light green.					
6.71	12.35	Banded argillite, siltstone and limy siltstone, bedding 60° at 29'.	Local strong quartz-filled fractures; overall 3-5% disseminated pyrite.				
12.35	13.72	Dark brownish-grey andesite or basalt, small hornblendes.					
13.72	14.02	Argillite, grey, bedded at 75°.	3% pyrite.				
14.02	18.60	Dark, very fine-grained basalt (?), massive, no bedding, irregular quartz stringers.	Local pyrite and pyrrhotite to 3%.				
18.60	22.87	Argillite and siltstone, locally calcareous, grey to black, occasional bedding as at 21.04 = 5°.	Pervasive pyrite and pyrrhotite as diss. and fine stringers 5-7%.				
22.87	28.66	Granodiorite, medium- to coarse-grained, very strong propylitic to moderate argillic alteration to 24.70 m (81.0'). Unaltered below.	No sulphides.				
28.66	29.57	Andesite or basalt dyke, unaltered.					

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
29.57	65.55	<p><i>Granodiorite, medium- to coarse-grained, local propylitic alteration; local foliation of mafics.</i></p> <p>32.47-32.62 m (106.5-107.0')</p> <p>- Aplite dyke.</p> <p>33.38-33.84 m (109.5-111.0')</p> <p>- Basalt dyke.</p> <p>34.45-35.52 m (113.0-116.5')</p> <p>- Basalt dyke, lower contact at 45°.</p> <p>36.28-37.80 m (119.0-124.0')</p> <p>- Basalt dyke.</p> <p>40.85-41.46 m (134.0-136.0')</p> <p>- Basalt dyke.</p> <p>46.65 m (153.0') - Foliation of granodiorite at 45°.</p> <p>64.63-64.94 m (212.0-213.0')</p> <p>- Aplite dyke.</p>					
65.55	69.66	<p><i>Light grey crystalline limestone, 6 cm of diopside garnet pyrrhotite skarn at top.</i></p>					
69.66	70.43	<p><i>Andesite or basalt dyke.</i></p>	1% pyrite.				
70.43	82.47	<p><i>Massive, light grey, coarse crystalline limestone; rarely with pyrite stringer; generally very clean.</i></p>					
82.47	96.49	<p><i>Grey, medium to coarse crystalline limestone;</i></p> <p>84.15 m (276.0') - beds at 35°;</p> <p>88.57 m (290.5') - 10 cm skarn pod;</p> <p>90.55 m (297.0') - beds at 45°.</p>	<p>0.5% pyrite on fractures;</p> <p>blebs of pyrrhotite at 93.60 m (307.0') and 94.06 m (308.5').</p>				

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
96.49	114.63	<p><i>Banded argillite and interbedded calcareous siltstone and silty limestone. Dark grey (argillite) and light grey (calcareous) alternating beds 1-4 cm thick.</i></p> <p><i>96.49-99.24 m - Moderate silicification and bleaching, numerous quartz and pyrite veinlets (5-7% pyrite). Upper contact with limestone shows 0.10 m shearing and brecciation.</i></p> <p><i>99.24-114.63 - Generally darker grey; 3-5% pervasive pyrite as fracture coatings. Occasional quartz veinlet;</i></p> <p><i>96.95 m - beds at 55°;</i></p> <p><i>103.96 m - beds at 65°;</i></p> <p><i>107.32 m - beds at 65°;</i></p> <p><i>114.31 m - beds at 63°.</i></p>					
114.63		<i>End of hole.</i>					

Note: Limy interbeds often show disseminated garnet and increased sulphide content.

LONE JACK RESOURCES LTD. - QUADRA ISLAND PROJECT

QUADRA ISLAND, B.C.

GREAT GOLD SHOWING

Azimuth: 172°
 Angle: -45°
 Total Length: 75.61 m (248.0')

Core Storage: Sechelt, B.C.

Logged By: P. Kallock

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
0.00	2.44	Casing.					
2.44	2.90	Overburden boulders.					
2.90	4.21	Andesite, weakly porphyritic, with epidote altered feldspar (to 1 mm) in green ground- mass.	Trace pyrite.				
4.21	21.49	Andesite porphyry, grey with light grey feldspar pheno- crysts to 4 mm. Weak to moderately fractured. Weak pervasive silicification.	3-5% pyrite as fracture coatings.				
21.49	33.08	Medium- to coarse-grained granodiorite hornblendes show weak chloritic alteration. Weakly fractured. 31.71-32.01 m (104.0-105.0') - diabase dyke at 70°.	<0.5% pyrite on fractures near contacts.				
33.08	38.57	Grey-green andesite, no phenocrysts.	No sulphides.				
38.57	42.29	Green andesite, weak epidote altered phenocrysts to 2 mm, lower contact with limestone at 55°.	No sulphides except lower 3 cm with 2% pyrite.				

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
42.29	45.12	Grey to white, fine to medium crystalline limestone, lower contact very irregular with skarn fragments in limestone.					
45.12	49.09	Skarn and fine-grained siliceous metasediment mixture. White to pink silicate and dark grey metasediment. Lower contact with limestone at 45°.	Minerals include quartz, garnet diopside, chlorite epidote, <1% pyrite.				
49.09	54.73	Grey medium crystalline limestone. 51.37 m (168.5') - Beds at 45°. 53.96 m (177.0') - Beds at 45°. 49.70-50.61 m (163.0-166.0') - Dark grey andesite dyke.					
54.73	56.10	Andesite and granodiorite with 0.3 m skarn at lower contact with limestone. Skarn includes garnet, diopside, quartz, pyrite + pyrrhotite.	1-3% pyrite + 1-3% pyrrhotite in andesite. 10% combined pyrite + pyrrhotite in skarn.				
56.10	62.71	Grey, medium crystalline limestone. 59.15 m (194.0') - Beds at 40°.	Trace pyrite.				
62.71	75.61	Granodiorite gneiss, hornblende + quartz segregations. 65.24 m (214.0') - Foliation at 30°. 68.90 m (226.0') - Foliation at 10°.	Trace sulphides.				
75.61		End of hole.					

LONE JACK RESOURCES LTD. - QUADRA ISLAND PROJECT

QUADRA ISLAND, B.C.

NORTHERN GEX AREA

Azimuth: 165°
Angle: -45°
Total Length: 61.04 m (200.2 ft)

Core Storage: Sechelt, B.C.

Logged By: P. Kallock

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
0.00	2.44	Casing - no core.					
2.44	5.64	Banded limestone and argillite, bedding 55° at 10', 60° at 15'; local breccia fragments of black argillite.					
5.64	9.15	Andesite or basalt porphyry (gabbro?); dark matrix, abundant dark feldspar (?) phenocrysts. Lower contact with limestone at 20°.	Pervasive 5-7% pyrite, local patches with pyrrhotite to 3 cm.				
9.15	17.38	Grey to white banded limestone, bedding shows folding and swirls locally dark grey.					
17.38	18.29	Skarn, fine-grained pink and green, local massive pyrite, pyrrhotite and arsenopyrite, strong quartz.	17.38-18.29 m (57.0-60.0')	185	0.1	3900	150
18.29	24.09	Dark grey crystalline limestone, irregular bedding.					
24.09	29.12	Coarse andesite porphyry (gabbro?), biotite matrix. Most <1% sulphides.	Pyrite + pyrrhotite to 5% near top.				

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
29.12	29.57	Grey to white limestone with the porphyry; porphyry has green groundmass, less phenocrysts.					
29.57	30.12	Andesite, green, nonporphyritic.					
30.12	30.18	Coarse andesite porphyry.					
30.18	34.15	Grey crystalline limestone, variable bedding.					
34.15	34.76	Limestone, andesite (non-porphyrific) and sulphides and skarn, locally massive pyrrhotite and pyrite, also diss. in andesite.	10% combined sulphides.				
34.76	39.33	Nonporphyritic andesite, green groundmass.	1-3% sulphides; locally 10% pyrrhotite as at 38.41 m (126').				
39.33	41.62	Andesite, nonporphyritic, altered, skarnified pyrite, pyrrhotite.	Strong to intensely grey-brown with local 20%, bottom contact at 50°.				
41.62	44.82	Grey crystalline limestone.	Bottom contact at 65°.				
44.82	46.34	Green nonporphyritic andesite.	Local 3% sulphides.				
46.34	49.70	Grey crystalline limestone.					
49.70	61.04	Green andesite, nonporphyritic. 60.37-60.98 m (198-200') - minor interbedded limestone.	Local quartz, pyrrhotite, pyrite. Sulphides generally 1-3%, local patches to 10%.				
61.04		End of hole					

LONE JACK RESOURCES LTD. - QUADRA ISLAND PROJECT

QUADRA ISLAND, B.C.

NORTHERN GEX AREA

Azimuth: 185°

Angle: -45°

Total Length: 91.77 m (301.0 ft)

Core Storage: Sechelt, B.C.

Logged By: P. Kallcock

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
0.00	2.44	Casing - no core.					
2.44	5.28	Grey crystalline limestone with several black argillite interbeds.	3-5% pyrite in argillite.				
5.28	11.43	Andesite porphyry (gabbroic?); 50% phenocrysts which are 50% plagioclase and 50% orthoclase feldspars; groundmass is very fine-grained, mostly hornblende; lower contact at 45°.	Strong fracture 5.27-7.93 m (17.3-26.0'); pyrite = 7%, pyrrhotite = 7%; quartz at contact; <3% sulphides below 7.93 m (26.0'). 5.27-6.71 m (17.3-22.0') 6.71-7.93 m (22.0-26.0')	210 400	0.8 0.1	420 500	870 2250
11.43	20.42	Grey crystalline limestone, irregular bedding generally 45-65°, occasional argillite interbed with weak quartz and pyrite.					
20.42	21.34	Pinkish grey silicified argillite (?), very fine grained.	Strong quartz; 3-5% pyrite, pyrrhotite.				
21.34	22.04	Grey limestone as above.					
22.04	27.53	Andesite porphyry (gabbroic?) as above; amount of feldspar phenocrysts decrease with depth to 20%.	Patchy, pyrite + pyrrhotite to 3%; 24.50-24.82 m (81.2-81.4') 75%, massive pyrrhotite skarn between 27.53-27.74 m (90.3-91.0'); 2-4% sulphides. 24.70-25.30 m (81.0-83.0')	141	0.1	9	30

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm,ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
27.53	30.40	Grey crystalline limestone.	Skarn between 27.53-27.74 m (90.3-91.0'); 2-4% sulphides.				
30.40	44.09	Green andesite, non-porphyrific. 43.60-44.09 - Diss. sulphide content increases with increased silicification near contact.	Local massive patches of pyrrhotite + pyrite + quartz; i.e., 30.40-30.46 m (99.7-99.9'); 33.23-33.35 m (109.0-109.4'); 34.42-34.45 m (112.9-113.0'); 35.40-35.46 m (116.1-116.3'); 35.98-36.07 m (118.0-118.3'); 41.28-41.34 m (135.4-135.6').				
44.09	46.65	Grey crystalline limestone.	Pyrite + pyrrhotite + chalcopyrite diss. to 5% near contact to 44.3 m (145.4').				
46.65	47.26	Green andesite.					
47.26	47.56	Grey limestone.					
47.56	60.37	Green nonporphyritic andesite; 59.91-60.37 m (196.5-198.0') increase in silicification and pink skarn(?) 3-5% diss. sulphides.	Generally 1-3% sulphides, locally massive irregular quartz, pyrrhotite, pyrite veins with traces chalcopyrite, i.e., 48.78-48.84 m (160.0-160.2'), 53.51-53.66 m (175.5-176.0').				
47.56	70.73	Grey crystalline limestone, variable bedding 5-70°.	60.37-60.46 m (198.0-198.3') - 10% pyrrhotite + pyrite concentrated near contact. 61.83-62.20 m (202.8-204.0') tan siliceous inclusion with 5% sulphides (pyrrhotite + pyrite).				
70.73	71.65	Green nonporphyritic andesite.	Numerous quartz veinlets, 3-5% pyrrhotite + pyrite.				

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
71.65	91.77	<i>Grey crystalline limestone. 73.17-79.27 m - bedding at 0-10°; 81.40 m - bedding at 45°; 85.37 m - bedding at 35°; 89.94 m - bedding at 40°.</i>					
91.77		<i>End of hole.</i>					

LONE JACK RESOURCES LTD. - QUADRA ISLAND PROJECT

QUADRA ISLAND, B.C.

CENTRAL GEX AREA

Azimuth: 030°

Angle: -45°

Total Length: 61.89 m (203.0 ft)

Core Storage: Sechelt, B.C.

Logged By: P. Kallock

Metres		Rock Type	Alteration/Mineralization	Assays (%) or Geochem (ppm, ppb)			
From	To			Cu ppm	Ag ppm	As ppm	Au ppb
0.00	1.83	Overburden.					
1.83	25.46	Grey-green nonporphyritic andesite, weak to moderately fractured; 12.50-12.80 m (41.0-42.0') and 13.41-13.72 m (44.0-45.0') - irregular quartz.	<1% sulphides, minor quartz, minor calcite on fractures.				
25.46	38.87	Grey, finely crystalline limestone contact at 90° at 25.46 m; bedding 55° at 28.35 m (93'); 50° at 32.01 m (105'); 50° at 37.5 m (123').	Traces sulphides. 33.23-33.84 m (109.0-111.0') - 5-10% pyrite, pyrrhotite.				
38.87	61.89	Grey-green, nonporphyritic andesite weakly silicified within 0.3 m of upper contact which is at 50°; zones of silicification and quartz veining with increased pyrrhotite + pyrite content to 15% at 54.57-54.88 m (179.0-180.0'), 56.55-56.71 m (185.5-186.0').	1% pyrrhotite + pyrite with irregular quartz.				
61.89		End of hole.					



Vancouver Petrographics Ltd.

* 512

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October 31, 1987

Invoice 6863

Arctex Engineering Services,
301-1855 Balsam Street,
Vancouver, B.C.,
V6K 3M3.

RE: EXAMINATION OF 7 POLISHED THIN SECTIONS, YUKON AND QUADRA ISLAND.

SUMMARY

The samples from Quadra Island consist of two altered volcanics, one a quartz latite and the other probably a basalt; an altered plutonic rock of granitic composition; and several diopside-garnet-carbonate-sulfide+quartz skarn rocks. The latter are in the right skarn facies (pyroxene-sulfide) to host significant metal concentrations. Sulfides of economic interest are mainly chalcopyrite and sphalerite, with associated pyrite and pyrrhotite. Minor amounts of what may be an Fe-rich wolframite (ferberite) are also present. Geochemistry would be necessary to confirm this identification.

The altered granitic rock contains primary pyroxene, which is very unusual. It also shows alteration to a clearer pyroxene similar to the diopside found in the nearby skarn samples, indicating that it might be responsible for skarnification. Other than the pyroxene, alteration in the granitic rock is to an alkali feldspar of albitic composition, sericite, chlorite, calcite, and secondary quartz.

Similar alteration minerals characterize the volcanic rocks, with the sulfides being obviously related to sericite, carbonate, quartz, and chlorite deposition. One sample however does possibly contain a different alteration mineral, tentatively identified as pyrophyllite (X-ray confirmation needed). The quartz latite may be a hypabyssal intrusive rather than an extrusive rock (the coarser, non-aphanitic groundmass suggests this). Although there are no economic sulfide minerals associated with the altered volcanic rocks, if there is tungsten present in the altered quartz latite, then the opaque identified tentatively as ferberite would be worthy of follow-up.

The sample from the Scheelite Dome in Yukon is a quartz vein with a highly altered margin. It contains the unusual Mg-tourmaline dravite as part of the alteration assemblage, plus interesting amounts of arsenopyrite and a possible lead-copper sulfosalt, perhaps cosalite or galenobismuthite. Other means would be required to further characterize its identity.

Craig Leitch, P.Eng.

QUADRA 499N 113E And: ALTERED PLAGIOCLASE PORPHYRY QUARTZ LATITE

This was probably originally an intermediate porphyritic volcanic rock, with 30% large (2 to 3 mm) white altered relict plagioclase phenocrysts in a grey recrystallized matrix. It contains more abundant sulfides than the skarn rocks but they are not base-metal sulfides, being only pyrrhotite. The minerals present in thin section are:

Plagioclase (phenocrysts)		30%
(groundmass)		15%
K-feldspar (groundmass)		15%
Quartz (groundmass)		20%
Hornblende (groundmass)		10%
Carbonate (dolomite)		5%
Sulfides:		5%
Pyrrhotite	4%	
Chalcopyrite	1%	
Ferberite (?) (Fe-rich wolframite)		<1%
Biotite		<1%
Apatite		tr

The large altered plagioclases are now partly replaced by sericite, chlorite, and minor opaques (limonite), as minute flecks of about 0.01 to 0.02 mm size. Twinning is still recognizable, but the composition is no longer determinable. They look albitized by their texture, but not strongly (perhaps An10 or so). Occasionally they are almost completely replaced by water-clear quartz.

There were probably also mafic phenocrysts, which are now represented by relicts composed of sulfide, sericite (or muscovite, since they are coarse, up to 0.3 mm long), carbonate, and sphene. There might have been about 10% of these mafic phenocrysts.

The groundmass is relatively fresh, with only minor sericitization of feldspars. It is composed of about roughly equal amounts of quartz, plagioclase (showing occasional twinning), and K-feldspar (identified by staining tests), plus about 10% pale green hornblende. All these minerals form small interlocking grains averaging about 0.1 mm diameter or less, although the hornblende tends to be as slightly longer laths. The hornblende shows only very weak pleochroism, and small extinction angles of 10 degrees or so. Occasional flakes of brown biotite and minute needles, probably of apatite, are also present.

Rare thin veinlets of quartz and muscovite up to 0.5 mm thick cross the slide. Sulfides are closely associated with altered mafic and plagioclase sites, being intimately intergrown with muscovite, carbonate, secondary quartz, and sphene. Sphene may well have been primary in this rock, since it also occurs with clusters of presumably primary hornblende grains in the groundmass. The rock was probably a quartz latite in original composition (ratio of K-feldspar to total feldspar 0.33).

Pyrrhotite and chalcopyrite form clots up to 1 to 2 mm across, composed of aggregates of individual grains 0.1 mm or less. The mineral tentatively identified as ferberite has low reflectivity, about 15%, and is grey in plane polarized light. It is anisotropic from greenish yellow to purplish brown and does not show any internal reflections. It is in carbonate.

MAIN SHEET GREAT GOLD

DEX QUADRA 499N 113E: QUARTZ-ALBITE ALTERED PYROXENE GRANITE

This is a very coarse-grained plutonic rock with a weak foliation defined by flattening of quartz grains, subparallel to a 0.5 to 1 cm quartz vein traversing the rock. The minerals present in thin section are:

Quartz		30%
K-feldspar (perthitic orthoclase, microcline)		15%
Original plagioclase (oligoclase)		5%
Secondary plagioclase (albite)		30%
Clinopyroxene		10%
Amphibole (hornblende?)		3%
Sericite		3%
Chlorite		1%
Sphene		1%
Sulfides:		2%
Chalcopyrite	1%	
Sphalerite	<1%	
Pyrrhotite	<1%	
Pyrite	tr	
Carbonate		<1%
Epidote (±clinozoisite)		<1%

An unusual feature of this granitic rock is the presence of large crystals up to almost 1 cm across of clinopyroxene, apparently primary in origin although now partly replaced by (1) another, clear clinopyroxene; (2) green amphibole, which may be hornblende; (3) minor chlorite, carbonate, epidote, and quartz. The original pyroxene may have been augite: it is slightly green coloured, with a large extinction angle of 45 degrees, and a dusting of fine opaques that give it a "moth-eaten" appearance. The replacing pyroxene may be diopside, since it is clear and colourless; it forms granular masses in and around the original pyroxene. Diopside is often associated with skarn deposits.

The K-feldspar forms large (1 to 2 mm) irregular grains replacing original plagioclase, which is present only as small remnants showing albite twinning enclosed in the K-feldspar. The extinction angle of this plagioclase is small, implying a composition around An15. Microcline, displaying grid twinning, is also evident as small grains (0.2 mm) in adjacent sheared zones.

However, closer to the major quartz vein, the feldspar is no longer K-feldspar. Instead, it is albite, probably with some K₂O molecule, replacing all other feldspars. It does not stain yellow as does the majority of feldspar away from the vein. It shows irregular, spindle-shaped albite twinning, and other textures characteristic of albitization (patchwork albite and "irregular" albite flecked by sericite).

Quartz forms both large grains up to 1 mm across in aggregates up to over 1 cm across, similar to its form in the quartz vein, and small grains (0.1 to 0.2 mm) with alkali feldspar grains of similar size in shear zones crossing the rock.

The chalcopyrite makes up anhedral masses up to 1 mm in size, occasionally with minor pyrrhotite intergrown, in the 1-2 cm vein envelopes. It is associated with the altered mafic sites. Traces of pyrite, in separate grains averaging less than 0.05 mm across, and minor red-brown sphalerite up to 0.3 mm across, are scattered through the vein envelope also. There are a few grains (0.02 mm) of a mineral tentatively identified in specimen 499N/113E-And as ferberite (Fe-rich wolframite).

Fe WO₄

SEX QUADRA 618N 054E: DIOPSIDE-GARNET-CALCITE SKARN

This sample is a red (garnet) and green (clinopyroxene) skarn, with minor amounts of sulfide (chalcopyrite and sphalerite, with traces of pyrite and pyrrhotite). The pyroxene is similar to the secondary pyroxene developed in 499N/113E, and is probably the result of further progressive skarn alteration. The mineral abundances in thin section are:

Clinopyroxene (Diopside?)		60%
Garnet		20%
Calcite		10%
Quartz		5%
Sphene		2%
Sulfides:		3%
Chalcopyrite	2%	
Sphalerite	1%	
Pyrite	tr	
Pyrrhotite	tr	
Plagioclase		tr

The rock is composed of a granular mix of fine-grained (average 0.1 to 0.2 mm) clinopyroxene, garnet, and quartz, with coarser calcite infilling between. Sulfides, as in the previous sample, are preferentially found in the pyroxene-rich areas.

The pyroxene is clear, often twinned, and anhedral, forming rounded interlocking grains with extinction angles of 45 degrees. They are probably diopside, a common pyroxene in skarns; the association with garnet is also typical.

Garnet forms similar granular masses, with anhedral grains that are either isotropic or show weak anomalous birefringence.

Calcite and quartz, which often display more euhedral crystal faces than the garnet or diopside, fill spaces between and poikilitically enclose some pyroxene and garnet (where the calcite and quartz are more abundant); elsewhere they form small grains intermixed with the pyroxene and garnet.

Rare relict grains of plagioclase are similar in form to the other minerals but are attacked by flecks of sericite.

Sulfides, particularly the chalcopyrite and sphalerite, form some coarser aggregates up to 1mm long or are intermixed with the silicates. Sphalerite shows red-brown internal reflections, as in other specimens in this suite. Pyrite and pyrrhotite are rare, forming much smaller grains about 0.1 mm or less.

The skarn alteration is very well and thoroughly developed in this sample, and is the right facies (pyroxene-sulfide) to host significant concentrations of metals.

QUADRA MAIN SHOW PINK-GREEN: DIOPSIDE-GARNET-CARBONATE SKARN

This is essentially the same skarn as the previous sample (618N/054E), with pink garnets in a matrix of pale green pyroxene. Again, sulfides are restricted to the pyroxene areas of the sample. The texture is somewhat different, though, with distinct veins of carbonate cutting the rock rather than distributed in the matrix with the silicates. Also, the carbonate is probably partly dolomitic, since it does not all react to cold dilute HCl without powdering.

The mineral abundances are as follows:

Clinopyroxene (Diopside?)	65%
Garnet	20%
Carbonate (Dolomite and calcite)	7%
Clinozoisite	5%
Sulfides:	3%
Sphalerite	2%
Pyrrhotite	1%
Chalcopyrite	<1%

Again, a granular mosaic of diopside and garnet, with occasional patches enriched in carbonate. Grain size is similar to the other skarn sample, averaging about 0.1 to 0.2 mm. An epidote-group mineral, probably clinozoisite since the characteristic yellowish pleochroism of epidote is lacking, is sparingly present mixed with the diopside. This mineral was not seen in 618N/054E, but was present in the altered granite (499N/113E).

Garnet shows the same isotropic to weakly anisotropic character, but perhaps is slightly coarser, forming grains up to 0.5 mm across. They are mixed with the dolomitic carbonate, while adjacent is the clearer, calcitic carbonate, with which the sulfides are preferentially associated.

Veinlets of calcite and clinozoisite crossing the slide commonly contain sphalerite. They cut an earlier generation of dolomitic carbonate/clinozoisite veins, which do not contain sulfide. Thus the addition of sulfides to this rock appears to be a late event.

There is no feldspar in this sample, and even more striking is the lack of any quartz compared to the other skarn sample.

The sulfides are composed of red-brown sphalerite as grains up to 0.6 mm across, sometimes with "chalcopyrite disease" (extremely fine chalcopyrite specks emulsed in the sphalerite). This chalcopyrite would not be separable metallurgically from the sphalerite, although a few other separate grains up to 0.05 mm are also present. Pyrrhotite forms scattered separate grains up to 0.2 mm in diameter.

Epithermal Zone

GEX QUADRA 490N 452W: INTENSELY SILICIFIED, ALTERED ?BASALT

Completely altered, grey rock; original identity not immediately apparent. Traversed by a 1-2 mm dark quartz-sulfide vein. The texture in thin section suggests that it might be a more highly altered equivalent of the previous sample, i.e. a higher-grade alteration of basalt. Large patches of different texture than the surrounding area, and richer in opaques, are suggestive of relict mafic phenocrysts.

The alteration mineralogy now visible in thin section is:

Quartz	50%
Pyrophyllite? (could be sericite)	40%
Pyrite	10%
Pyrrhotite	tr

Quartz is present mainly as fine interlocking grains averaging 0.03 mm in diameter. They are roughly equidimensional, but are very irregular and show strain by undulose extinction. They are full of minute (micron-sized) inclusions which are typically reddish, and may be hematite. The quartz is obviously secondary in its habit; coarser-grained patches also occur, which are associated with or sometimes organized into irregular quartz veins and veinlets. All these features are indicative of strong silicification.

A higher-relief, somewhat brownish mineral replaces patches of the rock in a manner reminiscent of the carbonate replacement of mafic phenocrysts in 642N 460W. This may only be sericite, since the birefringence is moderate, but the peculiar radiating aggregate habit is suggestive of pyrophyllite. Only X-ray diffraction could confirm this identification. Remnant cores contained within this mineral are iron-stained and look like the carbonate of the previous sample, although why an aluminosilicate like pyrophyllite would replace a carbonate like Fe-calcite is not immediately obvious. It is also possible that it is a chlorite, although it is not green in thin section or hand specimen. Also, I would not expect chlorite in this high-grade alteration facies.

The only other mineral in this section is pyrite, as irregular grains ranging from 0.02 to 0.2 mm in size. Rare small grains of pyrrhotite are included in the pyrite. Some aggregates (up to 2mm long) of pyrite are full of silicate inclusions and tarnish easily; they are possibly a different generation of pyrite mineralization. The sulfides are closely associated with the patches of phyllosilicate mineral, as was the sulfide in the previous sample, but pyrite in this sample also occurs in quartz veins. The quartz in the veins is considerably coarser than that in the matrix of the rock, averaging 0.25 mm. Occasional vugs are also closely associated with sulfide concentrations.

North End of Epithermal Zone

GEX QUADRA 642N 460W: STRONGLY CARBONATE-CHLORITE ALTERED BASALT

Pale grey well-altered intermediate or basic volcanic rock with dark grey relict mafic phenocrysts in aphanitic matrix. One end of the specimen is oxidized to pale brown limonite.

In thin section, the mineralogy is simple:

Carbonate (Calcite)	55%
Chlorite	30%
Plagioclase (remnants)	8%
Sulfides (Pyrite)	5%
Fe-Ti oxides	2%

The relict mafic phenocrysts were apparently pyroxene from their euhedral outlines, and up to 2 to 3 mm across. They composed 20% of the rock originally; they are now completely replaced by calcite (strong reaction to cold dilute HCl), and minor chlorite and pyrite. The calcite is Fe-calcite, as indicated by brown limonitic staining of the carbonate at the other end of the slide.

The groundmass looks to have been a typical basaltic one, composed principally of a felted interlocking mass of plagioclase and pyroxene microlites 0.1 to 0.2 mm long (forming about 30% each), interstitial chlorite (about 35%, ?after glass), and indeterminate Fe-Ti oxides (about 5%). A good portion of the plagioclase microlites is altered to chlorite also, and the former pyroxene grains are altered to calcite as are the phenocrysts. The Fe-Ti oxides may have largely been sphene; some are brown, with high relief and high birefringence. They are very small, only about 0.02 to 0.03 mm in diameter.

At one end of the slide, all the pyrite is attacked and replaced by goethite and perhaps lepidocrocite, which are interleaved with pyrite and form complete pseudomorphs after pyrite. Yellow, brown, and red limonites are present (as seen in thin section, and internal reflections in reflected light). The yellow mineral could be the sulfate jarosite but this would require X-ray diffraction confirmation; it seems more likely that it is merely limonite-stained sericite (it has much higher birefringence than the chlorite). If it is sericite, then the one end of the slide containing it is at a significantly higher grade of alteration than the other.

Thin sheared zones or veins of chlorite + minor carbonate and perhaps quartz traverse the limonitic end of the slide, also suggesting proximity to a vein.