MAP NO.:	ASSESSMENT REPORT	X	DOCUMENT NO: 092920
	PROSPECTUS		MINING DISTRICT: WATSON LAKE
105 D 5/12	CONFIDENTIAL	X	TYPE OF WORK: TRENCHING
	OPEN FILE		

REPORT FILED UNDER: NORANDA EXPLORATION COMPANY LIMITED

DATE PERFORMED: JULY-OCTOBER, 1990 **DATE FILED:** JAN 16, 1991

LOCATION: **LAT.:** 60°30'N **AREA:** QUARTZ LAKE

LONG.: 127°30'W **VALUE $:** 22,800

CLAIM NAME & NO.: SN 19
SN 22-40

WORK DONE BY: DANIELE HEON

WORK DONE FOR: NORANDA EXPLORATION COMPANY LIMITED

DATE TO GOOD STANDING:

REMARKS: NORANDA OPTIONED THE MACMILLAN PROPERTY FROM ASARCO AND THE LIARD RIVER MINING COMPANY. THE PROPERTY WAS RE-EVALUATED FOR ITS GOLD POTENTIAL SINCE THE PROPERT IS LOCATED NEXT TO THE HYLAND BULK TONNAGE GOLD DEPOSIT. A PORTION OF THE PROPERTY WAS SOIL SAMPLED. 354 SAMPLES WERE COLLECTED. THE SAMPLING PROGRAM WAS FOLLOWED BY A BULLDOZER TRENCHING PROGRAM. SEVEN TRENCHES WERE EXCAVATED. PHYLLITES QUARTZITES AND CARBONATES OF LOWER CAMBRIAN AGE UNDERLIE THE PROPERTY GEOCHEM PRODUCED ARSENIC ANOMALIES THAT, WHEN TRENCHED, FAILED TO PRODUCED THE DESIRED ASSOCIATED GOLD VALUES. THE MINERALIZED ROCKS CONSISTS OF PYRITE AND ASPY IN "LOW SHEARED" SERICITIC QUARTZITES AND PHYLLITES. HIGHEST VALUE OBTAINED IN TRENCHING WAS 338 PPB

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

M.R. file no.

R.M.M.R. file no.

Date forwarded 14 Jan 91

TRANSMITTAL FORM

OFFICE OF THE REGIONAL MANAGER MINERAL RIGHTS JAN 16 1991 WHITEHORSE YUKON TERRITORY

From ▶ Mining Recorder at: WATSON LAKE.

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- ☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT — Name
- ☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT — Name — Lease no.
- ☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE — Name — Lease no.
- ☐ SECURITY DEPOSIT
- ☐ FINANCIAL ABILITY
- ☐ ASSIGNMENT OF PLACER LEASE NO. — From — To
- ☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. — Owner
- ☐ DIAMOND DRILL LOGS — Claims — Claim sheet no.
- ☑ QUARTZ ASSESSMENT REPORT — Claims: SOUTH NAHANNI, SN, STRAT, QTZ, M, PIC — Claim sheet no.: 95-D-05/12.

For numbering. Work approved by MR.

Type of report: Trenching

Submitted by: Noranda Exploration Company Ltd (NPL)

Cls. work performed on: SN 25,26,28,29.

$ req. for ren. application: 22,800.00.

Please return one copy.

Signature

Date returned

REPLY ACTION

092920

Signature

802-6027-26 (6-86)

QUARTZ LAKE PROJECT

1990 EXPLORATION REPORT

CLAIMS S.N. 19, 22-40

WATSON LAKE MINING DISTRICT

NTS: 95 D/5 & D/12

Longitude: 127 30'

Latitude: 60 30'

Owned & Operated by

Noranda Exploration Co. Ltd.

(no personal liability)

Danièle Héon

Geologist

SUMMARY

A two phase exploration program was carried on the northeast corner of the Quartz Lake property during the 1990 field season. The target was a heap leachable low grade bulk tonnage gold deposit related to low angle fault structures such as found on the neighbouring Hyland Gold property.Soil sampling and prospecting outlined a 1100m X 700m arsenic soil anomaly (still open to the east and south) which was tested by seven cat trenches.

Trenching failed to uncover any significant gold mineralization.

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CHAPTER ONE: INTRODUCTION

1-1: Introductory Statement

An option agreement between Noranda and ASARCO dated February 5 1981, defines a 50/50 joint venture on the Quartz Lake property located 70km northeast of Watson Lake, in southern Yukon Territory. The property presently consists of 121 claims and 3 fractions and 9 twenty-one year renewable leases.

Previous work was targeted towards base metal exploration. The property contains the McMillan deposit that contains 1.1 million tonnes grading 8% Zn and 4% Pb and 36.7 g/t Ag in the Main Zone and 0.4 million tonnes of 1.72% Zn, 9.34% Pb and 214 g/t Ag in the South Zone.

Gold exploration on a neighbouring property has triggered interest for the gold potential of the Quartz Lake claim block. Alteration and soil anomalies similar to those reported on the adjacent Hyland Gold property were described in earlier work on the northeast corner of the Quartz Lake property. A soil sampling and trenching program was therefore conducted on the following claims to test the potential for gold mineralization.

CLAIM NAME	RECORD NUMBER
SN 19	57560
SN 22	57563
SN 23	57564
SN 24-40 inclusive	60046-60062 inclusive

The technical part of this report describes the soil

sampling prospecting and trenching undertook on these claims.

1-2: Location & Access

The Quartz Lake property is located 70km northeast of the town of Watson Lake in the southern Yukon (Fig. 1). The property straddles the 95 D/5 and D/12 map sheets and is located between 127 53' and 55' Longitude and 60 31' and 28' Latitude.

Access is by float plane or helicopter from Watson Lake. Road access is by a winter road that branches off from the Alaska Highway 80km east of Watson Lake and follows the Coal River towards the north.

Several cat trails facilitate movement on the property. Two old trails link the south and north shores of Quartz Lake to the Main and South Zones while a new trail was created between the Hyland Gold camp and the trenching sites.

Camp was located on the southern shore of Quartz Lake where Archer Cathro & Associates (1981) Ltd. graciously permitted us to use their camp facilities. Access to our property was via the shore line or by canoe and then by following the southern cat trail. For the second phase, an ATV was used from camp to the trenching sites following the new cat road.

The author would like to thank Don and Catherine Shailer, trappers living on the north shore of Quartz Lake, for their generous hospitality and for lending us a canoe that greatly facilitated our work.

1-3: Physiography & Vegetation

The property lies on the height of land between the Coal and

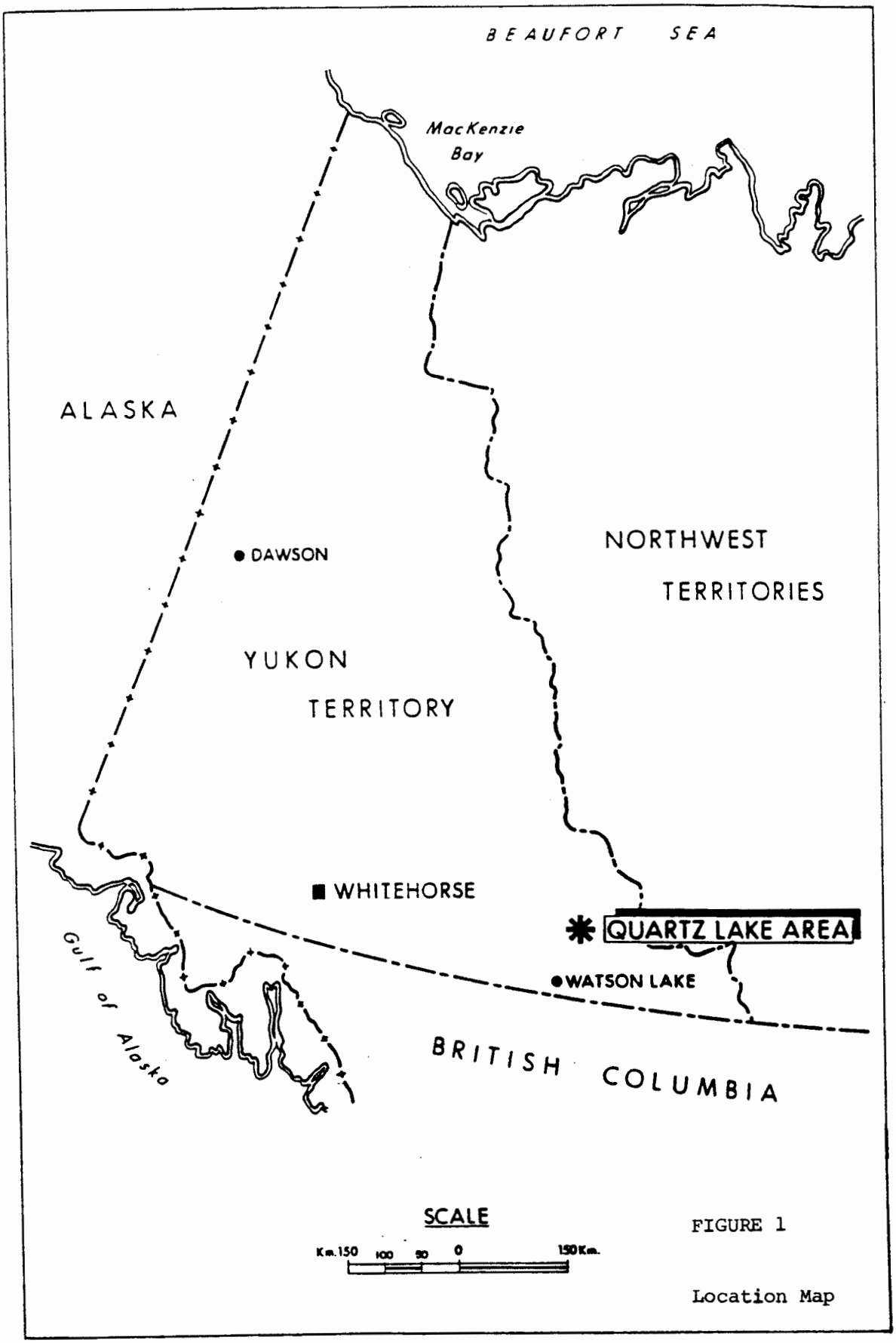


FIGURE 1

Location Map

Hyland Rivers, within the Hyland Plateau physiographic area. Maximum elevations near the property are around 1500m but never exceed 900m on the claim block itself. The property is drained by the Mine and Pyrite Creeks that flow into the Noranda (McMillan) and Quartz (Hulse) lakes. The area has been glaciated and bedrock is restricted to deeply and steeply incised creeks cutting through valley-filling glacial and alluvial deposits and to a few resistant knolls.

Vegetation consists of spruce and pine forests of variable density with poplar and various scrub brush in the low wet areas. Permafrost has been encountered on north facing slopes.

1-4: History of the Claims

The claims named M, Pic, Qtz, South Nahanni, Strat, Dorothy and Whi are collectively known as the Quartz Lake Property. The property consists of 121 claims and 3 fractions staked under the Yukon Quartz Mining Act and 9 twenty-one year renewable leases (Fig. 2). The leases protect the known extent of the Main Zone deposit. Table I lists the present claim status. Upon acceptance of this report all claims with 1990 and 1991 due dates will be remain in good standing until Dec. 31, 1992.

The mineralization at Quartz Lake was apparently discovered in 1892 by prospectors from the Cassiar gold fields investigating placer gold traces in the Hyland River area. The late Ken McMillan of Lower Post, B.C. rediscovered the prospect in 1930, staking the showing in that year and again in 1948. Noranda Mines optioned McMillan's ground in 1948 and explored for one

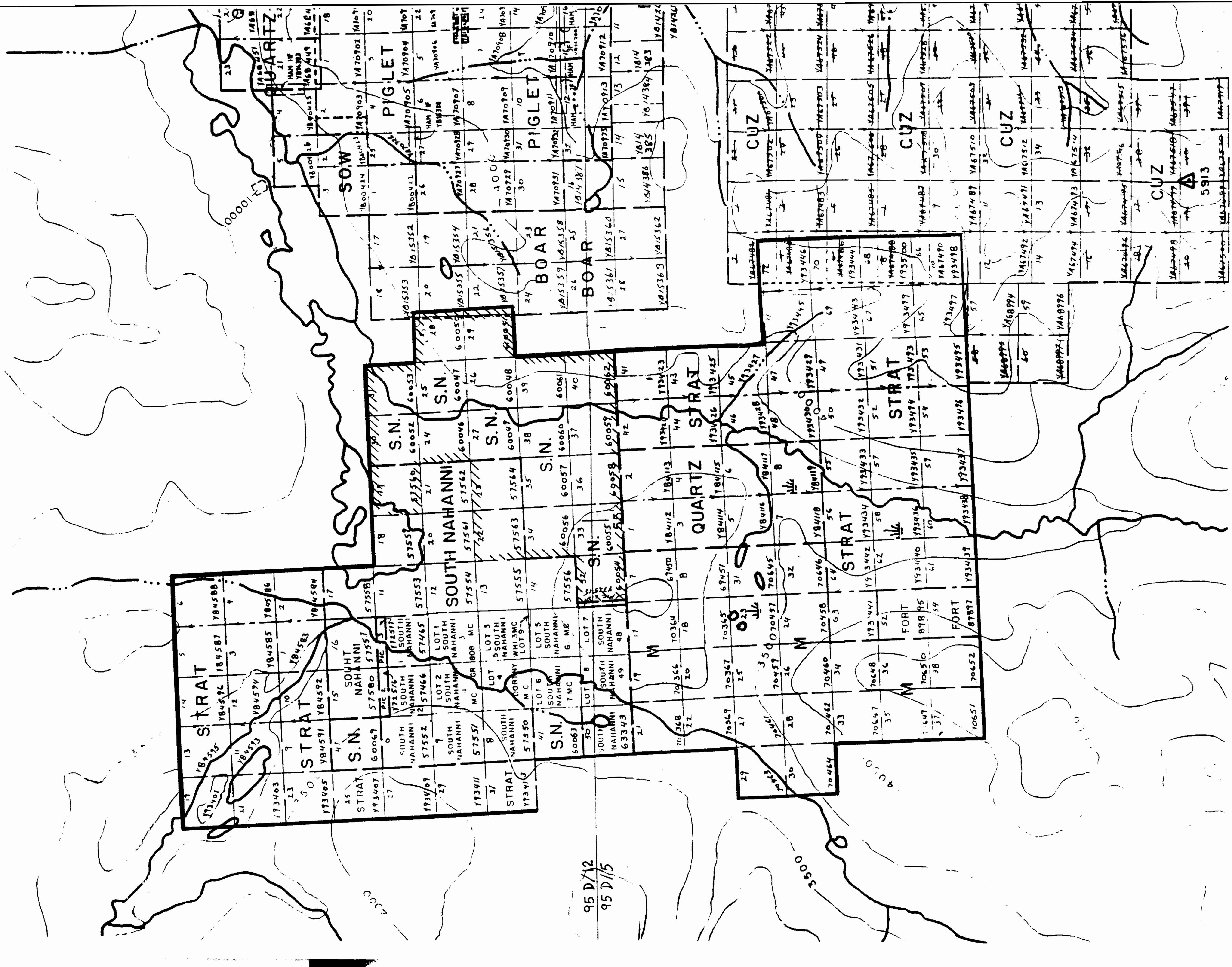


Figure 2: CLAIM MAP

QUARTZ LAKE PROPERTY

AREA OF 1990 WORK

NTS: 95 D/12 & D5

1:31680

TABLE I

File: NOR 2 Page 1
Report: SCHEDULE MAR 04 90
Selection: Numonic equals QUARTZ

Claim Name	R/P	Record	Owner	Rec Date	DUE
M 7		069450	ASARCO	Dec 31	1990
M 8		069451	ASARCO	Dec 31	1990
M 17		070364	ASARCO	Dec 31	1990
M 18		070365	ASARCO	Dec 31	1990
M 19		070366	ASARCO	Dec 31	1990
M 20		070367	ASARCO	Dec 31	1990
M 21		070368	ASARCO	Dec 31	1990
M 22		070369	ASARCO	Dec 31	1990
M 23		070457	ASARCO	Dec 31	1990
M 24		070458	ASARCO	Dec 31	1990
M 25		070459	ASARCO	Dec 31	1990
M 26		070460	ASARCO	Dec 31	1990
M 27		070461	ASARCO	Dec 31	1990
M 28		070462	ASARCO	Dec 31	1990
M 29		070463	ASARCO	Dec 31	1990
M 30		070464	ASARCO	Dec 31	1990
M 31		070645	ASARCO	Dec 31	1990
M 32		070646	ASARCO	Dec 31	1990
M 33		070647	ASARCO	Dec 31	1990
M 34		070648	ASARCO	Dec 31	1990
M 35		070649	ASARCO	Dec 31	1990
M 36		070650	ASARCO	Dec 31	1990
M 37		070651	ASARCO	Dec 31	1990
M 38		070652	ASARCO	Dec 31	1990
PIC 1		072515	ASARCO	Dec 31	1990
PIC 2		072516	ASARCO	Dec 31	1990
PIC 3		072517	ASARCO	Dec 31	1990
QTZ 1	Y	084112	NOREX	Dec 31	1990
QTZ 2	Y	084113	NOREX	Dec 31	1990
QTZ 3	Y	084114	NOREX	Dec 31	1990
QTZ 4	Y	084115	NOREX	Dec 31	1990
QTZ 5	Y	084116	NOREX	Dec 31	1990
QTZ 6	Y	084117	NOREX	Dec 31	1990
QTZ 7	Y	084118	NOREX	Dec 31	1990
QTZ 8	Y	084119	NOREX	Dec 31	1990
S NAHANNI 8		057550	LIARD	Dec 31	1990
S NAHANNI 9		057551	LIARD	Dec 31	1990
S NAHANNI 10		057552	LIARD	Dec 31	1990
S NAHANNI 15		057580	LIARD	Dec 31	1990
S NAHANNI 19		057560	LIARD	Dec 31	1990
S NAHANNI 22		057563	LIARD	Dec 31	1990
S NAHANNI 23		057564	LIARD	Dec 31	1990
S NAHANNI 24		060046	LIARD	Dec 31	1990
S NAHANNI 25		060047	LIARD	Dec 31	1990
S NAHANNI 26		060048	LIARD	Dec 31	1990
S NAHANNI 27		060049	LIARD	Dec 31	1990
S NAHANNI 28		060050	LIARD	Dec 31	1990
S NAHANNI 29		060051	LIARD	Dec 31	1990
S NAHANNI 30		060052	LIARD	Dec 31	1990
S NAHANNI 31		060053	LIARD	Dec 31	1990
S NAHANNI 33		060055	LIARD	Dec 31	1990

Selection: Numonic equals QUARTZ

Claim Name	R/P	Record	Owner	Rec Date	DUE
S NAHANNI 34		060056	LIARD	Dec 31	1990
S NAHANNI 35		060057	LIARD	Dec 31	1990
S NAHANNI 36		060058	LIARD	Dec 31	1990
S NAHANNI 37		060059	LIARD	Dec 31	1990
S NAHANNI 38		060060	LIARD	Dec 31	1990
S NAHANNI 39		060061	LIARD	Dec 31	1990
S NAHANNI 40		060062	LIARD	Dec 31	1990
S NAHANNI 41		060063	LIARD	Dec 31	1990
S NAHANNI 47		060069	LIARD	Dec 31	1990
S NAHANNI 50		063343	LIARD	Dec 31	1990
STRAT 1	Y	084583	NOREX	Dec 31	1990
STRAT 2	Y	084584	NOREX	Dec 31	1990
STRAT 3	Y	084585	NOREX	Dec 31	1990
STRAT 4	Y	084586	NOREX	Dec 31	1990
STRAT 5	Y	084587	NOREX	Dec 31	1990
STRAT 6	Y	084588	NOREX	Dec 31	1990
STRAT 9	Y	084591	NOREX	Dec 31	1990
STRAT 10	Y	084592	NOREX	Dec 31	1990
STRAT 11	Y	084593	NOREX	Dec 31	1990
STRAT 12	Y	084594	NOREX	Dec 31	1990
STRAT 13	Y	084595	NOREX	Dec 31	1990
STRAT 14	Y	084596	NOREX	Dec 31	1990
STRAT 19	Y	093401	NOREX	Dec 31	1990
STRAT 21	Y	093403	NOREX	Dec 31	1990
STRAT 23	Y	093405	NOREX	Dec 31	1990
STRAT 25	Y	093407	NOREX	Dec 31	1990
STRAT 27	Y	093409	NOREX	Dec 31	1990
STRAT 29	Y	093411	NOREX	Dec 31	1990
STRAT 31	Y	093413	NOREX	Dec 31	1990
STRAT 41	Y	093423	NOREX	Dec 31	1990
STRAT 42	Y	093424	NOREX	Dec 31	1990
STRAT 43	Y	093425	NOREX	Dec 31	1990
STRAT 44	Y	093426	NOREX	Dec 31	1990
STRAT 45	Y	093427	NOREX	Dec 31	1990
STRAT 46	Y	093428	NOREX	Dec 31	1990
STRAT 47	Y	093429	NOREX	Dec 31	1990
STRAT 48	Y	093430	NOREX	Dec 31	1990
STRAT 49	Y	093431	NOREX	Dec 31	1990
STRAT 50	Y	093432	NOREX	Dec 31	1990
STRAT 51	Y	093493	NOREX	Dec 31	1990
STRAT 52	Y	093494	NOREX	Dec 31	1990
STRAT 53	Y	093495	NOREX	Dec 31	1990
STRAT 54	Y	093496	NOREX	Dec 31	1990
STRAT 55	Y	093433	NOREX	Dec 31	1990
STRAT 56	Y	093434	NOREX	Dec 31	1990
STRAT 57	Y	093435	NOREX	Dec 31	1990
STRAT 58	Y	093436	NOREX	Dec 31	1990
STRAT 59	Y	093437	NOREX	Dec 31	1990
STRAT 60	Y	093438	NOREX	Dec 31	1990
STRAT 61	Y	093439	NOREX	Dec 31	1990
STRAT 62	Y	093440	NOREX	Dec 31	1990

Selection: Numonic equals QUARTZ

Claim Name	R/P	Record	Owner	Rec Date	DUE
STRAT 63	Y	093441	NOREX	Dec 31	1990
STRAT 64	Y	093442	NOREX	Dec 31	1990
STRAT 65	Y	093497	NOREX	Dec 31	1990
STRAT 66	Y	093498	NOREX	Dec 31	1990
STRAT 67	Y	093499	NOREX	Dec 31	1990
STRAT 68	Y	093500	NOREX	Dec 31	1990
STRAT 69	Y	093443	NOREX	Dec 31	1990
STRAT 70	Y	093444	NOREX	Dec 31	1990
STRAT 71	Y	093455	NOREX	Dec 31	1990
STRAT 72	Y	093446	NOREX	Dec 31	1990
S NAHANNI 18		057559	LIARD	Dec 31	1991
S NAHANNI 20		057561	LIARD	Dec 31	1991
S NAHANNI 21		057562	LIARD	Dec 31	1991
S NAHANNI 32		060054	LIARD	Dec 31	1991
S NAHANNI 2		057466	LIARD	Dec 31	1992
S NAHANNI 13		057555	LIARD	Dec 31	1992
S NAHANNI 14		057556	LIARD	Dec 31	1992
S NAHANNI 16		057557	LIARD	Dec 31	1993
DOROTHY Titled Lot 4 TT		057470	LIARD	Dec 31	1994
S NAHANNI 3 " 1		057467	LIARD	Dec 31	1994
S NAHANNI 4 " 2		057468	LIARD	Dec 31	1994
S NAHANNI 5 " 3		057469	LIARD	Dec 31	1994
S NAHANNI 6 " 5		057471	LIARD	Dec 31	1994
S NAHANNI 7 " 6		057472	LIARD	Dec 31	1994
S NAHANNI 48 " 7		063341	LIARD	Dec 31	1994
S NAHANNI 49 " 8		063342	LIARD	Dec 31	1994
WHI 3 FR " 9		064399	LIARD	Dec 31	1994
S NAHANNI 1		057465	LIARD	Dec 31	1995
S NAHANNI 11		057553	LIARD	Dec 31	1995
S NAHANNI 12		057554	LIARD	Dec 31	1995
S NAHANNI 17		057558	LIARD	Dec 31	1995

season. New Jersey Zinc optioned the ground from Noranda in 1949 and explored with hand trenching and 657 feet of drilling. In 1951 ASARCO entered the joint venture resulting in the formation of Liard River Mining Co. Ltd., ultimately earning a majority share position with diamond drilling, geophysical and geochemical surveys. In 1975 Noranda entered into a new joint venture agreement with ASARCO and the Liard River Mining Co., by which a majority interest could be earned by Noranda. A joint venture agreement was formalized in 1980 between Noranda and ASARCO.

1-5: Previous Exploration

Exploration work conducted before 1975 has been briefly described in the preceding section. Exploration work undertook by Noranda since then on the property is outlined below:

1975: Work was centered around the Main Zone.

Geochemical Survey: soils analyzed for Cu, Zn, Pb, Ag and Hg

Geophysical Survey: VLF, gravity, Airborne VLF-EM, mag

Geological Mapping

Diamond Drilling: 27 BQ holes

Staking: additional 103 claims

1976: Work was targeted to discover extensions to the Main Zone and outline new drill targets.

Geochemical Survey

Geophysical Survey: CEM, VLF/EM and gravity to the NW and SE of the deposit.

Geological Mapping

1977:

Diamond Drilling: 2BQ holes

1980:

Diamond Drilling: 5 BQ holes South Zone, 3 BQ holes Main Zone

1981: Work was directed at the South Zone.

Geophysical Survey: CEM, gravity

Geological Mapping: (as part of M.Sc. Thesis)

Diamond Drilling: 6 BQ holes

Preparation of contoured orthophotographs.

1989:

Reconnaissance soil sampling and prospecting for gold targets along Mine and Pyrite Creek as well as two reconnaissance lines west of the Main Zone and west of Noranda Lake.

1-6: Work Program

The 1990 exploration work program was targeted on possible gold mineralization related to low angle thrusting. Such mineralization had been discovered on the adjacent Hyland Gold property, a joint venture between Silverquest, NDU and Adrian Resources. Previous work had outlined some arsenic soil anomalies as well as outcrops on both properties described as fault-related, silicified, arsenic-rich rocks of the Ridge Group associated with siderite veins and breccias. The low grade (1 to 3 g/t) bulk tonnage prospect on the Hyland Gold property is known to be related to a 2300m X 450m fault complex, in silicified stockwork and brecciated sediments, related to a Au-As-Bi soil geochemical anomaly. The 1990 program was aimed at discovering

similar mineralization on Noranda's ground, on claims S.N. 19, 22-40.

The work was divided into two phases.

PHASE I was conducted from July 23rd to the 28th. The team of four included Eerik Lilles, Thomas Chromy and Michelle Robinson (soil samplers) and Daniele Heon (geologist). Mob and demobilization was done by Otter and Beaver aircraft on floats from Watson Lake Flying Services.

A soil grid consisting of 11.5km of 200m spaced lines and a baseline 2.2km long totalling 13.7km of lines was sampled at 50m intervals. Cross sampling was done on part of the property where samples were taken halfway between lines. A contour soil line was done following the east bank of Pyrite Creek where L9800E would have been. A total of 354 soil samples were taken. Prospecting was done in the canyon of Pyrite Creek. A total of 24 rock samples were taken including old BQ core found at the old Liard River camp at the north end of Pyrite Creek. One bulk silt sample was taken near that site.

PHASE II was delayed for two days due to poor weather in Watson Lake and mobilization took place on the 5th of October 1990. The Noranda team was composed of Marten Berkman (assistant) and Daniele Heon (geologist). A D-7 bulldozer was hired from Caron Diamond Drilling, Carl Vig was the operator. A total of two days were required to move the bulldozer from the Hyland Gold property to the Noranda trenching sites. The southeast section of the soil samples grid was extended during that time, adding 40 soil

samples and 2km to the pre-existing grid. Seven trenches were dug and sampled over a 3.5 day period for a total of 810m of trenches and 89 chip samples.

CHAPTER TWO: GEOLOGY

2-1: Regional Geology

The Quartz Lake area is underlain by rocks of Hadrynian age forming a northwest trending synclinorium. These rocks are part of the "Grit Unit" and comprise dark shales, slate and siltstone, gritty quartzite, limestone, quartz-pebble and feldspar-quartz pebble conglomerate and sandstone; maroon, green and buff shale, slate and phyllite. Locally this unit is represented by coarse clastic rocks forming blocky outcrops of quartzose sandstone and conglomerate and argillite.

The core of the synclinorium is composed of Cambro-Ordovician argillite, phyllitic limestone, wavy banded limestone and quartzite.

A small granodiorite batholith (10 X 6km) was mapped by MacDonald (1981) 25km west of Quartz Lake.

2-2: Property Geology

The Quartz Lake property is covered by extensive glacial and alluvial deposits. Outcrop is rare and limits geological and structural interpretation.

The sedimentary rocks outcropping on the property have been divided into four units: the Hadrynian Canyon formation and the Cambrian Range, Mine and Ridge groups (Table II).

The Canyon formation is the oldest unit and includes buff to grey interbedded phyllite and limestone interbedded with phyllitic argillite. It occurs adjacent to and west of the property.

The Cambrian Range Group overlies the Canyon Formation and consists of quartzite, locally graphitic and phyllitic and quartz pebble conglomerate. It occurs north and west of Mine Creek in the south central portion of the property as well as east of Pyrite Creek.

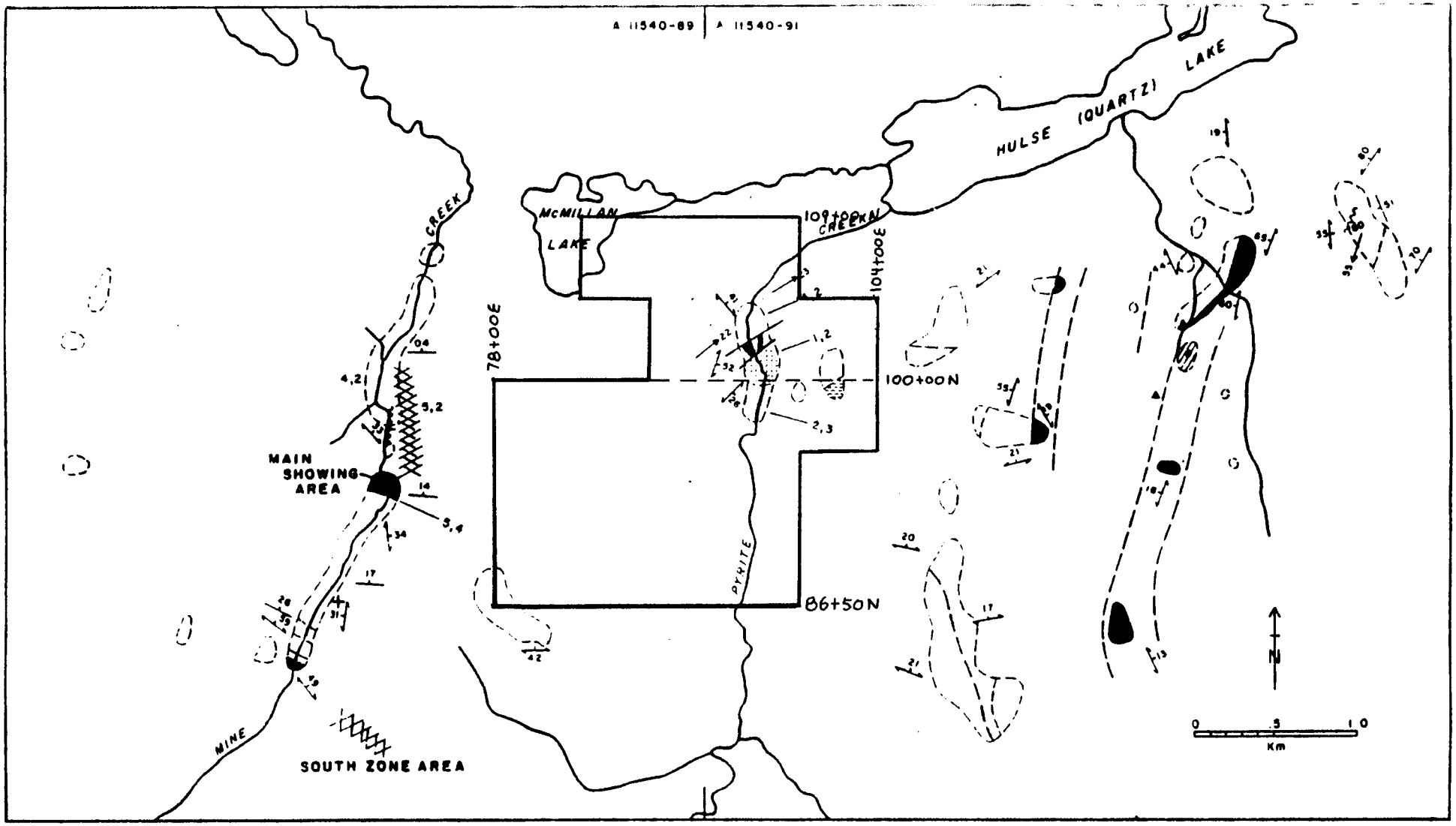
Overlying the Range Group is the Mine Group which host the Main Zone deposit, occurs in the central area of the property and consists of grey to green argillite, quartzite and limestone.

The Ridge Group consists of quartzite interbedded with grey limestone and grey green argillite. It occurs primarily in the southwest and northeast sections of the property, mostly along Pyrite Creek.

Figure 3 outlines the occurrence of the different lithologies in the Quartz Lake area.

No intrusive rocks have been mapped on the property except a diabase dyke encountered in drill holes. Rounded granodiorite float is found in stream beds. Fig. 3 outlines the main lithologies of the area.

The main structural features of the property are north to east trending thrust faults indicating northward (to NW) movement cut by a series of high angle faults. These structures are thought to be important controls to mineralization at the MacMillan deposit where the sole of the thrust fault host massive sulphide mineralization. The leading edge is the site of quartz-sulphide breccias, and high angle faults and veins contain remobilized sulphides. It is thought that the same structural setting controls gold mineralization to the east of the property.



LEGEND

HADRYNIAN AND/OR LOWER CAMBRIAN

5 Grey limestone; 5a-massive siderite

4 Thinly layered argillite, greenish-grey, buff and maroon with minor interbedded quartzite

3 Black phyllitic quartzite

2 Quartzite

1 Grit unit

SYMBOLS

Outcrop area

Attitude of bedding

Area of brecciation

Area underlain by mineralization

Lineation with plung

Fault with direction of dip

Geological contact

outline of 1990 work area

FIG.3: GEOLOGY OF QUARTZ LAKE AREA

(modified from Morin 1981)

Drag folds, C-S fabrics and slickensides have been observed in the field.

TABLE II

TABLE OF FORMATIONS

		light grey quartzite
	RIDGE	grey limestone
	GROUP	grey-green to buff argillite
CAMBRO-		grey, siliceous limestone
ORDOVICIAN	MINE	grey to green argillite
	GROUP	white quartzite
		green to black argillite
	RANGE	grey limestone
	GROUP	tan to buff quartzite
		limestone
HADRYNIAN	CANYON	buff to grey phyllite
	FORMATION	minor grey to black argillite

CHAPTER THREE: GEOCHEMISTRY

3-1: Silt Sampling

One bulk silt sample was taken on a flood plane of Pyrite Creek at the mouth of its steep valley. It returned a value of 10ppb Au. The analytical procedure involves screening the -200 mesh fraction and analyzing a 30g sample for gold by fire assay with A.A. finish.

3-2: Soil Sampling

Material sampled on the grid varied according to topography. The extensive glacial and alluvial deposits filling the valleys and covering the lower slopes and consisting of fine sand were often the only material available. In places, the White River Ash formed a thin layer. Samples were always taken below the A-horizon and below the ash layer. The best B or C horizons were developed on the higher slopes and were sampled where available. Samples from the Phase I soil sampling were sent to Acme Analytical Laboratories in Vancouver where they analyzed the -80 mesh fraction for gold by acid leach/AA from a 10g sample. A 0.5g sample was treated by aqua regia and analyzed for mercury by flameless AA and for 30 elements by ICP. Samples from Phase II were sent to Noranda Vancouver Laboratories where the analytical procedure is similar except the ICP sample taken weighs 0.2g.

The result of the soil sampling outlined a major arsenic anomaly trending north to northeast and measuring at least 1100m X 700m. This anomaly is restricted to the east of Pyrite Creek. Anomalous values generally range from 50-200ppm with 3 values

over 1000ppm As. Another arsenic anomaly is located in the drainage plane between Noranda and Quartz Lakes and is thought to be of hydromorphic origin. No real gold anomaly was outlined from this survey. A few anomalous numbers were obtained, only those coupled with arsenic anomalies were deemed of interest. A statistical analysis package has been compiled for the arsenic and gold values in the soils. Results are listed in Table III.

3-3: Prospecting

None of the different rock types that were sampled along Pyrite Creek yielded significant gold mineralization. However, pyritized quartzites, sheared graphitic quartzites, limonitic breccias and silicified and veined quartzites have been sampled, most containing anomalous amounts of arsenic (from 82 to 3293ppm). The highest gold sample (16ppb) also contains the highest arsenic value and the highest bismuth value (1034ppm) (bismuth is one of the tracer elements for the Hyland gold deposit). Old core found at the Liard River camp was sampled but did not reveal any significant gold concentration. Rock samples from the Phase I prospecting were sent to Acme Analytical Laboratories in Vancouver. The trenching samples from Phase II were sent to the Noranda Vancouver Laboratory. The analytical procedure involved is the same as the one described in the preceding section. The sample preparation involves pulverizing the specimen to -120 mesh.

TABLE III

GRID SOILS STATISTICS

Summary (Note: Reduced Average excludes values > 3 S.D.)

	As	Au
# samples	518	518
High	2218	82
Low	2	1
Stnd Dev.	150.7	.2
Distribution (# of values within)		
Avg. + 0-0.5 S.D.	475	478
0.5-1 S.D.	21	15
1-2 S.D.	11	10
2-3 S.D.	4	
> 3 S.D.	7	11
Simple Avg.	50.3	.8
Reduced Avg.	36.3	2.9

CHAPTER FOUR: TRENCHING

4-1: Work Done

A trenching program was set up to test the gold potential of several soil arsenic anomalies. A D-7 Caterpillar tractor that was stationed on the Hyland Gold property was contracted from Caron Diamond Drilling. Three and a half days of trenching were completed.

A total of seven trenches were dug to the east of Pyrite Creek and south of the base line, of which a total of 89 chip samples have been taken at variable intervals. Pertinent data is summarized below in Table III. Trench logs are to be found in Appendix I.

Outcrop was reached in most cases and sampling was done either on the wall or the floor of the trenches. These were generally not dug very deep into the bedrock and new geological and structural information was therefore limited. Overburden thickness varied from 0 to over 2.5m.

4-2: Trenching Results

Sheared, white to dark grey quartzite intercalated with dark phyllite (argillite) were the main rock types encountered. These contained various amounts of pyrite, sericitic/graphitic planes and quartz $\pm$ carbonate veinlets which are common alteration features and might be due to thrust faulting and/or represent an alteration halo from the nearby base metal McMillan deposit. Pyrite was the only sulphide observed in the trench samples, it occurs generally as disseminated cubes and forms distinctive

TABLE IV
TRENCHING DATA

TRENCH NUMBER	STARTING CO-OD	TREND	LENGTH	SAMPLE NUMBERS	TARGETS	SIGNIFICANT RESULTS
TRQL90-1	104+00E 99+00N	335	170	R143301-332 32 smpls	15ppb Au, 213ppm As & 11ppm Bi + 8ppm Sb 15ppb Au + 1666 As	high angle fault w qtz slickensides sheared & pyritized quartzite max value 260ppb Au /2m
TRQL90-2	103+00E 98+00N	E-W	97	R143333-352 20 smpls	75ppm As near outcrop	rusty siderite? zone 1943ppm As followed by 380ppb Au (highest Au value)
TRQL90-3 partially sampled	102+00E 97+00N	315	193	R143353-362 10 smpls	56ppb Au 457ppm As 7.7g Ag 61ppm Sb + 19ppm Bi & 326ppm As + 10ppm Bi +2ppm Ag	3.2ppm As 46ppm Bi +2041ppm As
TRQL90-4	100+00E 95+50N	E-W	112	R143363-369 7 smpls	154ppm As 1246ppm Pb	most of o/c >100ppm As sheared graphitic quartzite rusty (siderite?) zone
TRQL90-5	100+00E 94+50n	E-W	80	R143387-389 3 smpls	265ppm As	o/c >461ppm As
TRQL90-6	smpl P142619	105	63	R143370-377 8 smpls	699ppm As 35ppm Bi	average 832ppm As/ 12.5m
TRQL90-7	100+00E	E-W	95	R143378-386 9 smpls	548ppm As	As >300ppm/27m 20% sulphides in sheared quartzite with argillic bands trench ends in rusty soil 971ppm As
TOTAL	7 trenches		810m	89 samples		

casts in the unsheared quartzite. Different degrees of deformation were observed from development of schistosity to the formation of quartzite augens in graphitic material.

Areas of outcrop near trench targets could benefit by further sampling. The outcrop to the east of the northern end of TRQL90-1 could be chip sampled in a direction perpendicular to the trench. There is also outcrop near trenches TRQL90-2 and TRQL90-3 that could be investigated further. Time constraint during this program did not permit prospecting and sampling outside of the trenches. A planned target of 519ppm As and 21ppb Au was not trenched and is located at 100+00E, 104+00N. This site is just on the slope of an area of outcrop that should be sampled.

Trenching failed to uncover significant gold mineralization. The arsenic-rich targets were confirmed by arsenic-rich rocks but without the hoped gold values.

CHAPTER FIVE: MINERALIZATION

Pyrite mineralization is wide spread in quartzites and sheared quartzites and phyllites. It occurs as coarse cubes as well as in finer grained disseminations following shear planes, and can attain massive proportions.

Anomalous arsenic values (>100ppm) are generally associated with mineralized and low sheared quartzites and phyllites that are also sericitized.

An isolated anomalous bismuth value (1034ppm) was obtained in a quartzite sample containing <1% Py and <1% aspl?)

This program was inconclusive in finding significant gold mineralization. The highest value, obtained in the trenching program, was of 338 ppb Au.

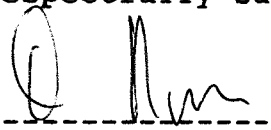
CHAPTER SIX: CONCLUSIONS & RECOMMENDATIONS

A soil sampling program covering the S.N. 19, 22-40 claims of the Quartz Lake property outlined a geochemical arsenic anomaly measuring 1100m X 700m. A total of seven trenches were dug to explore the possible gold potential of these anomalies. The trenching failed to uncover significant gold mineralization.

Although disappointing, this program did not conclusively test the gold potential of this property. First, most of the soils sampled were of glacial or alluvial origin, which might have masked the mobility of gold into the soil. Secondly, the scarcity of outcrop and the inaccessibility of the best ones (in the steep Pyrite Creek canyon) rendered the structural interpretation of this part of the property difficult. Such understanding is of great importance to define structurally controlled targets such as those found on the Hyland Gold property. Additional outcrop sampling in those areas specified in the trenching section is recommended.

With the present state of knowledge of the property further work cannot be justified. But if a better structural understanding could be gained, new trenching targets could be defined.

Respectfully submitted by;



Danièle Héon
Geologist

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STATEMENT OF COSTS

Phase I (Geochem)		
Air Transportation		$ 907.50
Ground Transportation		564.00
Canoe Rental		170.00
Camp Support	28 person days @ $50/day	1400.00
Freight		472.00
Analysis	Soils 364 smpls @ $15/smpls	5460.00
	Rocks 24 smpls @ $20/smpls	480.00
Personnel	28 person days @ $150/day	4200.00
	Total Phase I	13653.50
Phase II (Trenching)		
Air Transportation		$ 1806.00
Ground Transportation		1126.00
Camp Support	30 person days @ $50/day	1500.00
Contaractor Work		9143.00
Diesel Fuel		850.00
Freight		940.00
Analysis	Rocks 89 smpls @ $20/smpls	1780.00
Personnel	20 person days @ $150/day	3000.00
Drafting & Report Writing		3000.00
	Total Phase II	23145.00
	PROJECT TOTAL	$36798.50

STATEMENT OF QUALIFICATIONS

I, Daniele Heon, do hereby certify that

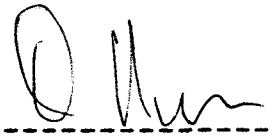
1) I am a geologist residing at 14 Renfrew Westmount, Quebec.

2) I am a graduate of McGill University with a Bachelor of Science in Geology.

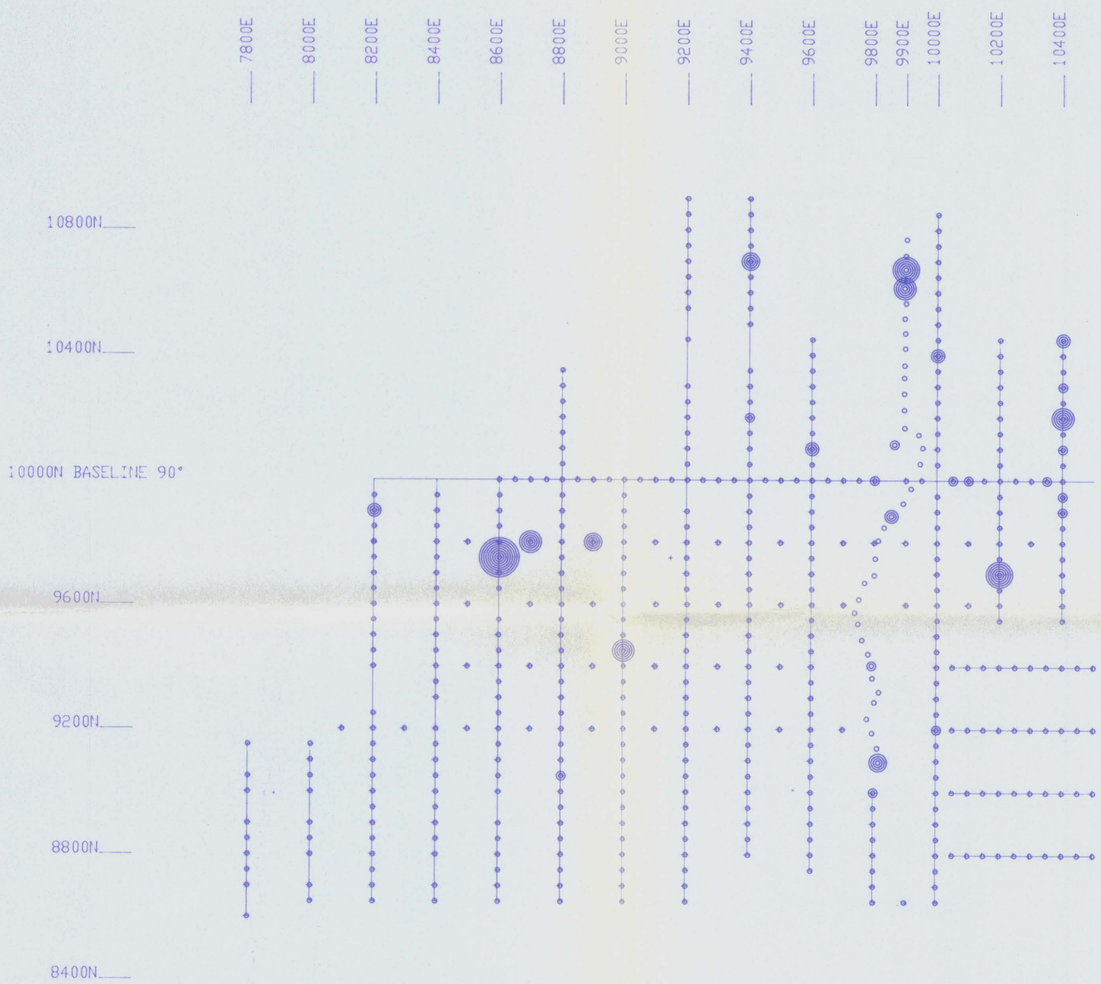
3) I have been working as an exploration geologist since 1985 in the Abitibi, the Grenville and the Cordillera.

4) I have been employed by Noranda Exploration since May 1990.

5) I supervised and participated in the field work on the claims described in this report.



Danièle Héon
Geologist



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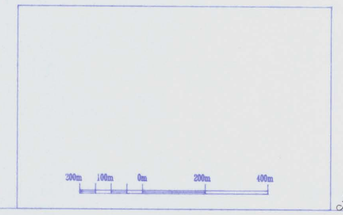


Fig 4

QUARTZ LAKE

SOIL GEOCHEMICAL SURVEY

PPB Au

PROJECT: QUARTZ LAKE PROJECT # : 347

BASELINE AZIMUTH : 90 Deg.

SCALE = 1:10000 DATE : 8/30/90

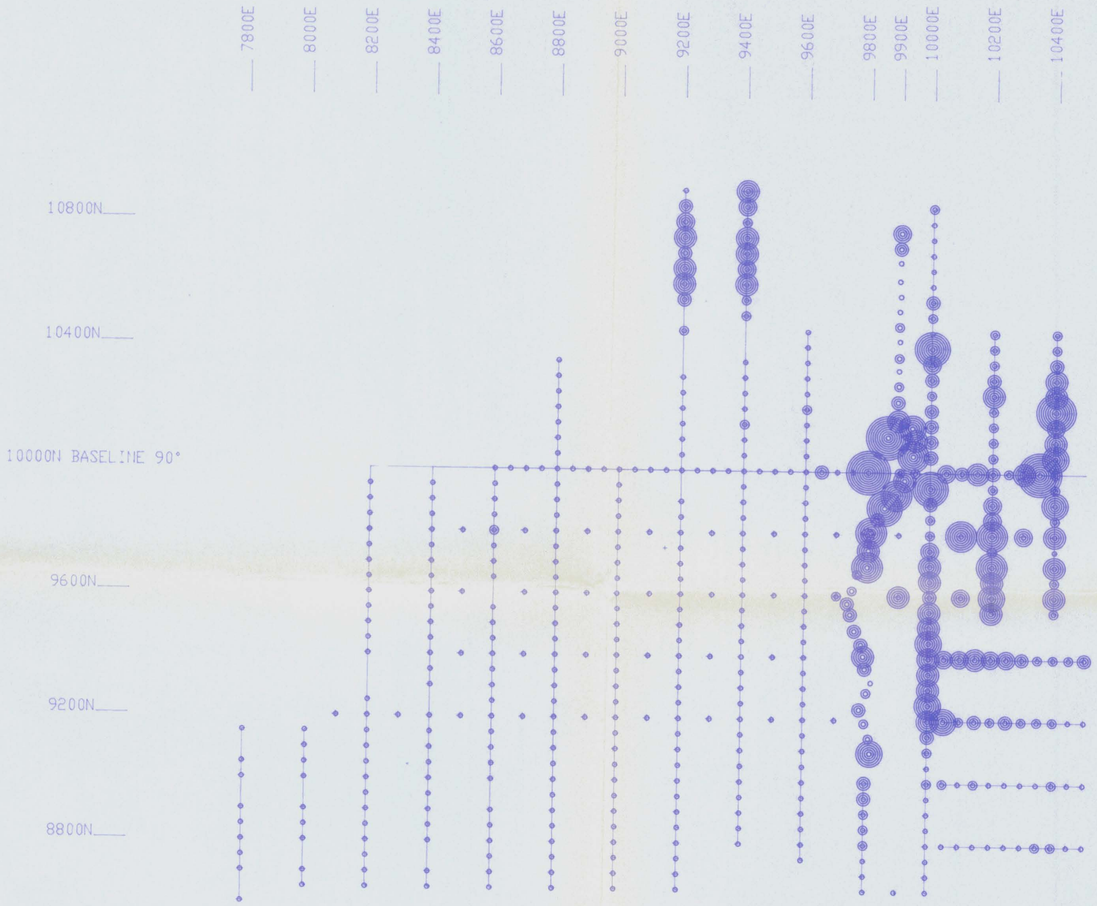
SURVEY BY : D HEON NTS :

FILE: C347QTZ

NORANDA EXPLORATION

noranda
NORANDA EXPLORATION CO. LTD.

(97) MAP# 95 05,12



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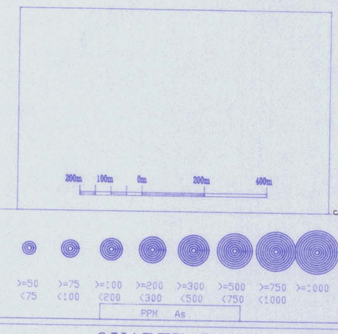


Fig 5

QUARTZ LAKE

SOIL GEOCHEMICAL SURVEY

PPM As

PROJECT: QUARTZ LAKE PROJECT # : 347

BASELINE AZIMUTH : 90 Deg.

SCALE = 1:10000 DATE : 8/30/90

SURVEY BY : D HEON NTS :

FILE: C347QTZ

NORANDA EXPLORATION

noranda
NORANDA EXPLORATION CO. LTD.

MAP# 95 D/5,12

(98)

7800E 8000E 8200E 8400E 8600E 8800E 9000E 9200E 9400E 9600E 9800E 9900E 10000E 10200E 10400E

10800N

10400N

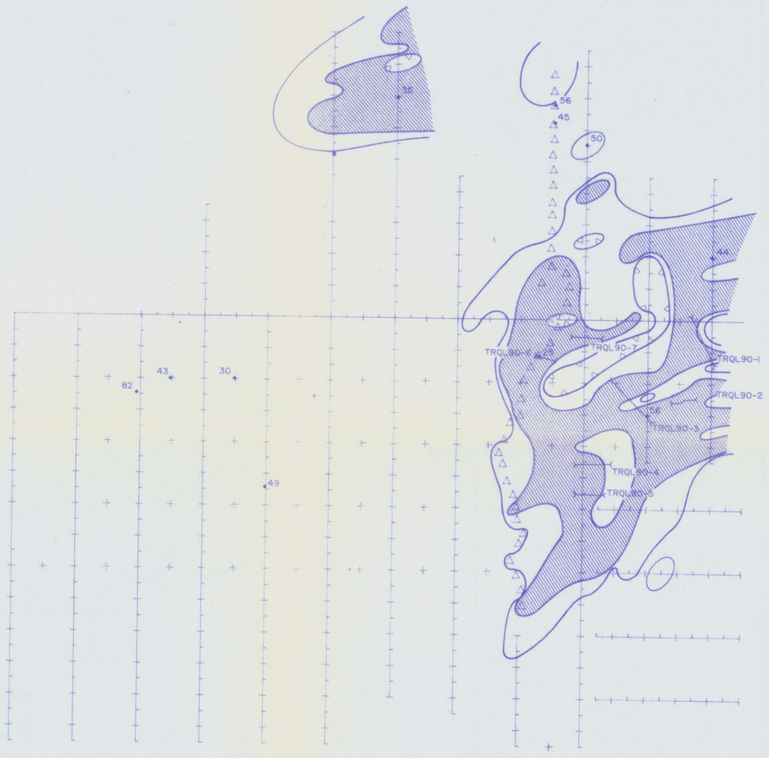
10000N BASELINE 90°

9600N

9200N

8800N

8400N



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△ Traverse Soil Location

200m 100m 0m 200m 400m

Fig 6

As > 50 ppm

As > 100 ppm

TRQL90-1 Trench Location

Au > 25 ppb

QUARTZ LAKE

COMPILATION MAP

PROJECT: QUARTZ LAKE PROJECT # : 347
BASELINE AZIMUTH : 90 Deg.

SCALE = 1:10000 DATE : 8/30/90
SURVEY BY : D HEON NTS :
FILE: C347QTZ

NORANDA EXPLORATION

MAP# 95P/5,12

noranda
NORANDA EXPLORATION CO. LTD.

APPENDIX I

ROCK DESCRIPTIONS

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 95 D/12

PROPERTY Quartz Lake

DATE 24/08/90

ROCK SAMPLE REPORT

PROJECT 347

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Au	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
138501	Rusty weathering grey granular quartzite containing tr py, loc porous, cut by white qtz vein containing 2% py, loc partially or totally weathered out. total sulph <1%. striated plane discordant to qtz vein.	py <1%	float at base of o/c		4							
138502	rusty sheared quartzite w rusty + yellowish alteration on fract + interstitial. tr diss f.g. grey sulph. in qtz.	sulph tr.	float same lithology as 501		11							
R138503	white + rusty qtz vein, 10-25cm wide, both surfaces striated, contains thin brecciated horizon near base which is also striation bounded.		o/c	18cm	12							
138504	slightly sheared grey quartzite w some silica veining, diss + globs of arsp or stibnite ? <1% and py <1% in qtz + in Rx. 2 witness		o/c		16	3293 ppm As.				1034 ppm		Bi

C GEOCHEM A ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 95 D/12

PROPERTY Quartz Lake

DATE 24/08/90

ROCK SAMPLE REPORT

PROJECT 347

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Au	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
138505	Sheared sericitized qtzite (?) w slight light green clayish alteration. tr py in veinlet + weathered out in Ex	tr py	o/c		4							
138506	limonitic weath. on fract. light grey qtzite w tr py+cp.	tr py+cp	o/c		1							
138507	white qtz w slight greenish alt. w stringers of f-ms diss py	py	float		1							
138508	Qtzite (?) cut by cm-wide qtz veins. At contact w underlying shale horizon.		o/c	30cm	3							
138509	Qtz vein w hem-lim coating contains pods of py <1%. N wall of vein striated.		o/c		1							

G GEOCHEM A ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 95 D/12

PROPERTY Quartz Lake

DATE 26/08/90

ROCK SAMPLE REPORT

PROJECT 347

SAMPLE NO	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
3138510	Rusty weathering qtz vein (or band) apparently concordant w ↑ containing py tr-1%, frothy vugs + lim in vugs or veinlets. Some brecciation w Fx of arg.		o/c chip	1m	1							
3138511	Limonitic cgl or breccia w ang fx of alt. arg?		float		1							
3138512	Qtz-Fe carb vein containing py tr, sed Fx + graphitic planes. Slightly folded. (thrust plane?)				1							
3138513	Grey qtzite w sericitic planes and ≤ 1.5 cm thick stringers of sulphides. py-1-2% cpy or ex. py tr-<1%. total sulph: 1-3% asp? tr-<1%.	1-3%	float in stream		1							
3138514	Faulted zone, mineralized qtzite + qtz + rusty veinlets + sp. py ≤ 1%. maybe insufficient sample	py<1%	o/c		1							

G GEOCHEM A ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 95 D/12

DATE 27/08/90

PROJECT 347

Quartz Lake

SAMPLE REPORT

SAMPLE NUMBER	DESCRIPTION	MINERALIZATION	TYPE	WIDTH	H ☐ A ☐	D ☐ A ☐	G ☐ A ☐	G ☐ A ☐	G ☐ A ☐	G ☐ A ☐	G ☐ A ☐ Au	SAMPLED BY
	RE-SAMPLING OF OLD CORE - BQ - Liard River Camp.											
138517	Sheared qtz + qtzite w varying amount of graphite, slightly carb. Py + yellow sulph (ox. py, cp?) stringers 1-3%	py 1-3%	core	→	Hole 85, Box A5?						12	
138518	Brecciated quartzite + qtz w py matrix 5-15%	py 5-15%	core	→	unlabelled						5	
138519	Brecciated qtz + py stringers 10-15% zone is 8' long + has been split. py varies from 2-20%	py 10-15%	core	→	unlabelled possibly	hole	87				8	
138520	sheared rusty quartzite (?) w graphitic shear planes, py 2-5%	py 2-5%	core	→	same box as 519						9	
139521	sheared qtzite w graphitic shear planes. random samplins between 184' - 196'		core	→	Hole 87, 184' - 196'						11	

G - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 95 D/12

PROPERTY Qtz Lake

DATE 27/08/90

ROCK SAMPLE REPORT

PROJECT 347

SAMPLE NO	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
138522	Brecciated (rounded) qtz w rusty fract (Fe-rich veinlets?) in "sericitic" matrix.		core	→	hole 87		≈ 260'					2
138523	Brecciated (rounded) qtz and/or qtzite in silicic matrix, py diss <1%. some white qtz veins w shallow C.A. w py stringers 2%, total sulph ≈ ≤1%. slight greenish alt.		core	→	Unlabelled, random over-						7'	5

G GEOCHEM A ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 95 D/12

PROPERTY Qtz Lake

DATE 28/08/90

ROCK SAMPLE REPORT

PROJECT 347

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Au	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
138524	Qtz-carb breccia w angular Fx of black stinking limestone		float in stream		1							
138525	Sheared qtz + qtzite w sericite + graphitic planes, diss py 1-5% % graph. varies (bands more or less sheared).	1-5%	o/c	40cm	4							
142676	same rock type - more homogeneous shearing, ↑, + gp or black sericite	<1%			1							
142677	Silicified qtzite (?) cut by thin qtz ± ank veinlets, PY 1-2%. rusty weathering w yellow-greenish sulph. alteration.		float off o/c		1							
142678	rusty weathering pervasively rusty qtzite loc bleached w many altered fract. planes. witness has "liesegang" limonitic rings.		o/c		5							

G - GEOCHEM A - ASSAY

APPENDIX II

TRENCH LOGS

NORANDA EXPLORATION

NOTE: This trenched mapped from split from sample bag
Variations noted might be minor and not reflect whole sample length

SAMPLES R143301-332.

Field Co-ordinates

Northing	Easting	Elevation
99+00 N	104+00 E	
Tip	Length	Bearing
	170m	335°

Survey Co-ordinates

Northing	Easting	Elevation
Tip	Length	Bearing
	170 M.	

Project # 347 | Property Qtz Lake
Magnetic Declination | Date Started 7/10/90 | Scale 1 □ /m
Mapped by D.H. | Date Completed 7/10/90 | N.T.S. # 95 D/12
Trench # [redacted] | Page # 1/4

Survey Station Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor Unit
1	R143301	23	847		Silicified Qtzite	
2	302	29	655			Sheared.
3						
4						
5						
6						
7						
8						
9						
10	303	10	608			
11						
12						
13						
14	304	30	511			
15						
16						
17						
18						
19						
20						
21	305	47	83			
22						
23						
24						
25						
26						
27						
28						
29	306	24	165			
30						
31						
32						
33	307	83	818			
34						
35						
36						
37						
38	308	62	124			
39	309	32	108			
40						
41						
42						
43	310	40	121			

Description

white and grey qtzite containing sericitic schistose planes and loc. graphitic shear bands. Loc. appearance of silicification, loc rusty + vuggy. Dark schistose bands = argillite?

yellow alt on fracture planes

black, softer, generally more schistose

Qtz veins

Qtz vein in black Rx

Sericitized Quartzite
py 5%

Qtz veinlets w pyrite casts.

NORANDA EXPLORATION

Trench # QL·90·1 | Page # 2/4

Survey	Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor Unit	Description
[illegible]	44	[illegible]	40	121		Silicified quartz.		
3m	45–47	311	59	62				Grey sericitic schist (some Rx, more silicified
3m	48–50	312	21	56				Black f.g. graphitic schistose Rx w qtz veinlets
8m	51–58	313	100	213				Grey quartzite (loc white), loc w sericitic planes fine qtz stockwork, slickenside py casts sericitic
3.5m	59–62	314	240	1677				sericitic, w rusty spots.
2m	62–64	315	260	774				5% py + py casts, rusty zones
5m	65–68	316	130	861				
4m	69–72	317	69	834				qtz veins or sweats w py up to 5% black graphitic planes
2m	73–74	318	100	1069				
6.5m	75–81	319	40	232				Black sericitic and/or graphitic Rx f.g. py 1%
6m	82–87	320	39	65				dK grey
3m	88–90	321	42	374				Grey quartzite w py casts. slightly schistose rusty planes
5m	91–95	322	59	570				
5m	96–97	323	12	30				Dark grey massive w f.g. py and qtz + ser[illegible]

NORANDA EXPLORATION

Trench # QL-90 | Page # 3/4

Survey pts.	Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor Unit	Description
5m	98–100	323	12	301		Silicified Quartzite		
5m	101–105	324	100	321			Dark schistose Rx w qtz bands or veins	
10m	106–115	325	44	563				
10m	116–125	326	13	221			Grey quartzite (sericitic)	qtz veinlets, f.s py 1%.
10m	126–135	327	14	304				rusty planes, py casts
10m	136–145	328	10	719			Dark grey schistose.	
5m	146–150	329	14	130			White to grey qtzite	
5m	151	330	27	320				

NORANDA EXPLORATION

Trench # QL.90.1 | Page # 4/4

Survey Pts.	Metres	Sample #	Au (ppb)		Strip log	Major unit	Minor Unit	Description
5m	152–155	330	27	320		Silicified qtzite	white to	grey quartzite
5m	156–160	331	19	165				f.g. py 1%
5m	161–165	R143332	20	216				
	166–170							
								END OF TRENCH 170 m.

NORANDA EXPLORATION

Field Co-ordinates

Northing	Easting	Elevation
98+00N	103+00E	
Length	Bearing	
97m	E-W	

NOTE: This trench mapped from splits from sample bag. Variations noted might be minor and not be representative of whole sample length.
SAMPLES R143333 - R143352. (Systematic 5m sampling)

Survey Co-ordinates

Northing	Easting	Elevation
	Length	Bearing
	97 m.	

Project #	Property
547	Qtz Lake

Magnetic Declination	Date Started	Scale
	8/10/90	1 cm/m
Mapped by	Date Completed	N.T.S. #
P.H.	8/10/90	95 D/12

Trench # TR-8L-90-2. Page # 1/2

Survey Pegs	Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor Unit	Description
5m	1	R143333	29	63		Sericitized Quartzite		dk grey, some qtz sweats fs py <1%
	5							
5m		334	45	166				v py rocks
	10							
5m		335	28	76			graphitic schist	
	15							
5m		336	42	34			Dark grey to grey sheared quartzite w graphitic - sericitic planes	
	20							
5m		337	47	445				py rocks, some thin qtz veinlets
	25							
5m		338	19	64				py 2-3%
	30							
5m	31	339	78	182				slightly rusty
	35							
5m	36	340	39	222				
	40							
5m	41		24	136		Graphitic to sericitic schist		contains sheared qtzite lenses
	43							

NORANDA EXPLORATION

Trench # TR.QL.90.2 | Page # 2/2

Survey pts.	Metres	Sample #	Au (ppb)	As (ppm)	Strip log	Major unit	Minor Unit	Description
5m	44	347	84	136		Graphitic sericitic schist		
	45							
	46							w qtz plans
	47							
6.5m	48							
	49							
	50	342	65	358				
	51							
	52							
	53							w qtz plans
5.5m	54							
	55	343	77	561				
	56							
	57							cut by network of rusty qtz-carb veinlets
	58							
6m	59							
	60							
	61	344	75	262				
	62							
	64							
4.5m	65							
	66	345	120	531				
	67							
	68							
2m	69	346	87	1087				rusty soil?
	70							
3m	71							
	72	347	120	1943				
	73							
	74							
5m	75							
	76	348	360	702				
	77							
	78							
	79							
	80							
6.5m	81							contains qtz or qtzite lenses
	82							
	83	349	37	91				
	84							
	85					Quartzite	dark grey, sericitized w graphitic schist	
	86							
5m	87							
	88							
	89	350	19	207				
	90							
	91							
4.5m	92							
	93	351	37	204				
	94							
3.5m	95						white, w py rests.	
	96	352	77	149				
	97							

END OF TRENCH 97 M.

NORANDA EXPLORATION

Field Co-ordinates

Northing	Easting	Elevation
97+00N	102+00E	
Grip	Length	Bearing

SAMPLES R143353-362.

Survey Co-ordinates

Northing	Easting	Elevation
Grip	Length	Bearing
	193 M.	

Project #	Property	
347	Quartz Lake	
Magnetic Declination	Date Started	Scale
	8-10-90	1 square = 1m
Mapped by	Date Completed	N.T.S. #
D.H.	9-10-90	95D/12

Trench # Qtz-90-3 Page # 1/4

Surface Co-ords	Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor unit
	1					OVB	
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	11						
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						
4m	22	R143357	150	214	ARG.	d.g	
	23						
	24						
	25						
	26						
	27						
	28						
	29						
	30						
	31						
	32						
	33						
	34						
	35						
	36						
	37						
	38						
	39						
	40						
	41						
	42						
	43						Qtz
354		R143362	62	899			

OVB

RUSTY SOIL, ROUNDED BOULDERS

GRAPHITIC PHYLLITE
NOT VERY WELL CONSOLIDATED

description on next page

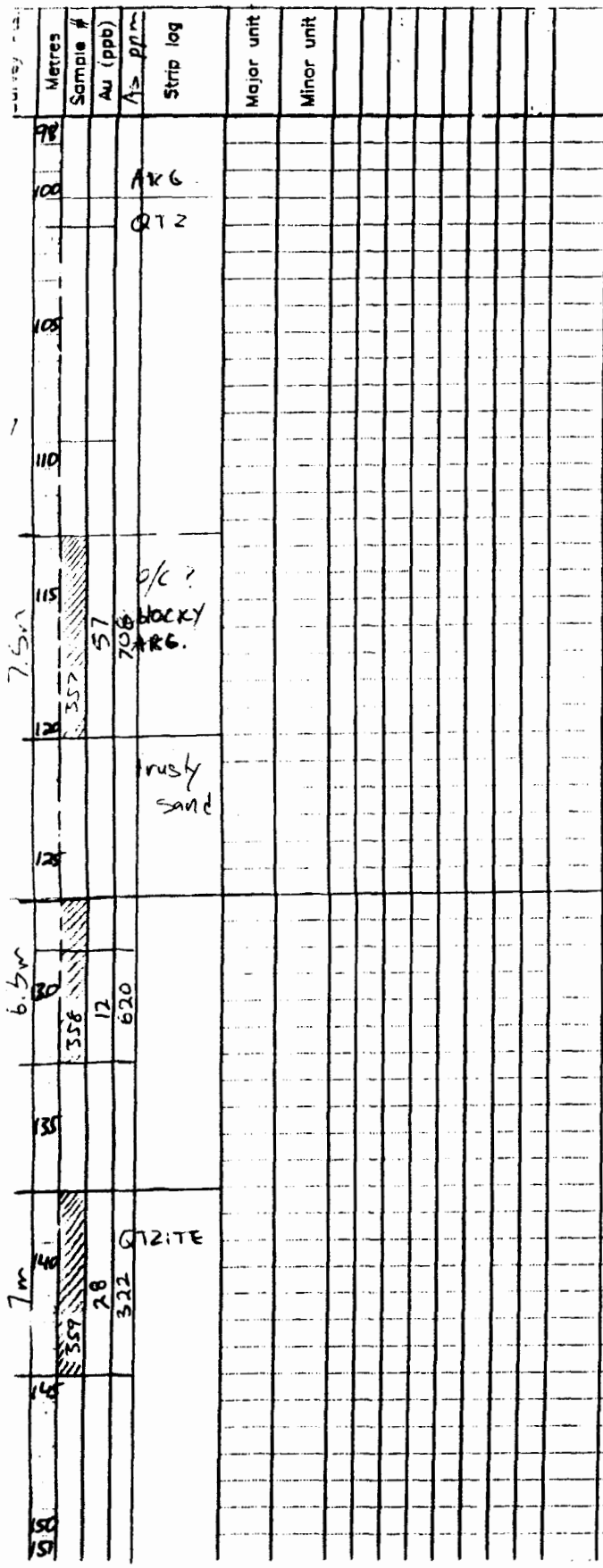
NORANDA EXPLORATION

Trench # QL-90-3 | Page # 2/4

Survey m's	Metres	Sample #	Au (ppb)	As (ppm)	Strip log	Major unit	Minor unit	Description
2m	44	354	62	899		Arg	QTZ TR.	LENSE OF GREY EARTHY QTZITE TO RUSTY PLANES, THIN QTZ VEINLETS. NORTHERLY END IS RUSTY AND CRUMBLY.
	45							
					ONE OR ARG?			
	50							
	55							
4.5m		355	34	244		QZITE		GREY QTZITE WITH YELLOW ALTERATION ON PARTINGS AND RUSTY SPOTS. SOME GRAPHITIC OR ARGILLIC HORIZONS. CONTACT ≃ 325/10.
	60							
					NO O/C			
9m	65							
		356	52	181				
	70							
						N/A		
	75				ALTERNATING QT-IT-/PHYLLITE			
	80							
	85					QTZ		WHITE TO GREY, WITH QTZ VEINLETS. LOOSE material ON SIDE OF TRENCH.
					QTZITE			
	90							
					STRIKE IN ROCK			
	95							
	97				ARG.		arg	BLUISH.

NORANDA EXPLORATION

Trench # QL-90-3 | Page # 3/4



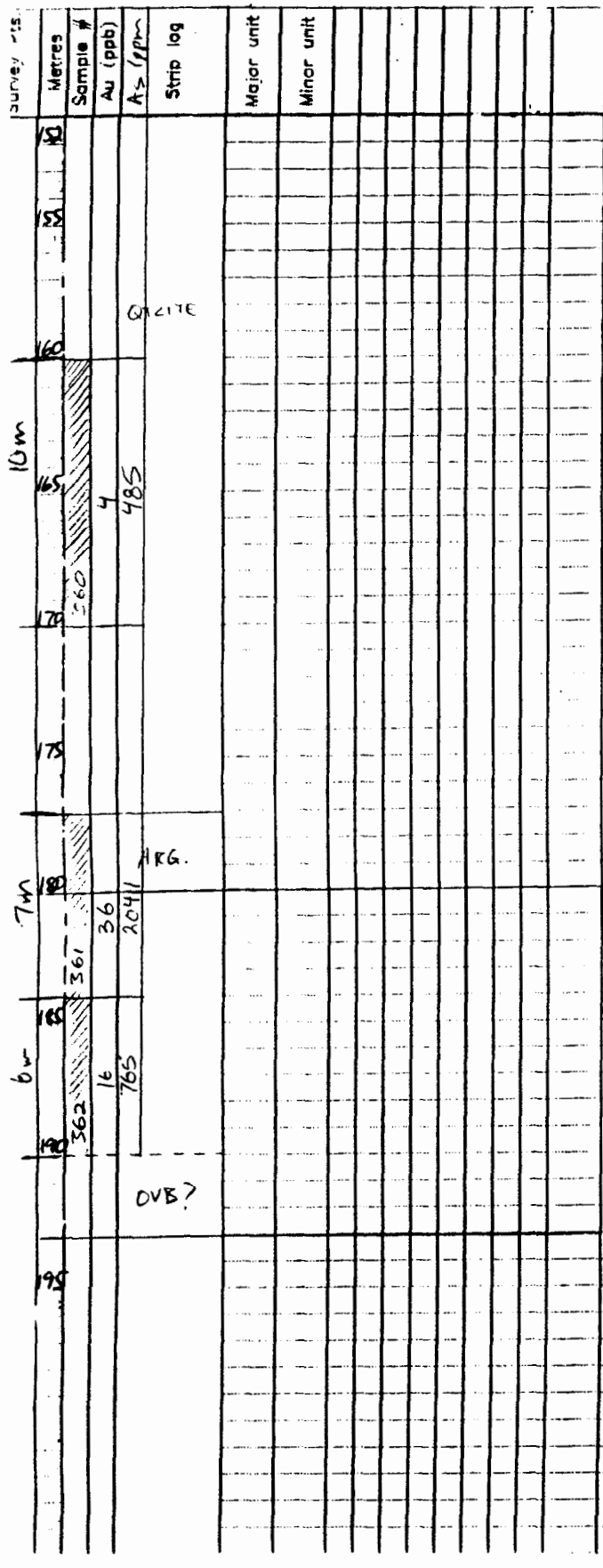
Description

CONTACT RUSTY

Slivers of sericitic + rusty argilite. Fractured O/C o- overburden

Probably OVB

NORANDA EXPLORATION



NORANDA EXPLORATION

Field Co-ordinates

Northing	Easting	Elevation
95+50N	100+00E	
Length	**Bearing**	
112 m	315°	

NOT OBVIOUS IF O/C

SAMPLES R143363-369

Survey Co-ordinates

Northing	Easting	Elevation
Length	**Bearing**	
112 m.		

Project #	Property	
347	Quartz Lake	
Magnetic Declination	**Date Started**	**Scale**
	08/10/90	1:1 0/m
Mapped by	**Date Completed**	**N.T.S. #**
D.H.	08/10/90	95 D/12
Trench #	**Page #**	
QL-90-4	1/3	

Description

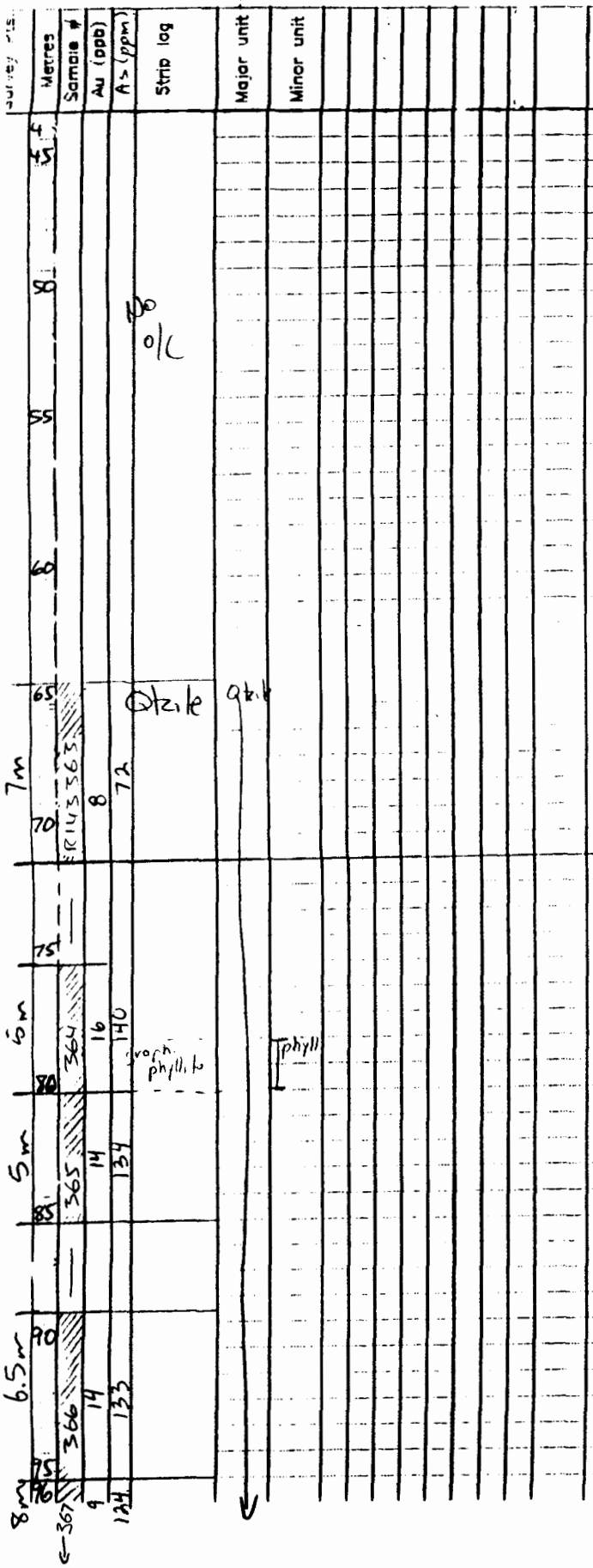
NO O/C

NO SAMPLE TAKEN

65 M.

NORANDA EXPLORATION

Trench # QL-90-4 | Page # 2/3



Description

Gen. dec. ~, lam. banded rusty quartzite w sericite-graphitic planes, loc shear textures (crust/plane

65-70 rusty Grey

NO SAMPLE

SHEARED GREY ISX (SHEARED QTZITE ?) 78-80 graphitic PHYLLITE

RUSTY QTZITE

NO SAMPLE

rusty qtzite

NORANDA EXPLORATION

Trench 1 | Page 3/3

Description

Survey Pts	Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor unit
	97					Qtzt	
8m	100	367	9	124			
4m	105	368	19	186			
5m	110	369	12	257			
	112						

REDDISH RUSTY SOIL
RX LOC sericitized

REDDISH RUSTY QTZITE
LOCAL Fe-rich?

SERICITIC GREY Rx
(PHYLLITE?).

END OF TRENCH 112 m.

NORANDA EXPLORATION

Field Co-ordinates

Northing	Easting	Elevation
74+50N	100+00E	
Azimuth	Length	Bearing
	80m	E-W

STAPLES R1433:7-389.

Survey Co-ordinates

Northing	Easting	Elevation
Azimuth	Length	Bearing
	80 M.	

Project #	Property
347	Quartz Lake
Magnetic Declination	**Date Started** / **Scale**
	09/09/90 / 1 0/m
Mapped by	**Date Completed** / **N.T.S. #**
D.H	09/09/90 / 95 D/12
Trench #	**Page #**
[redacted]	1/2

Description

Meters | Sample # | Au (ppb) | Strip ID | Major unit | Minor unit

OVB

till

No o/c

NO SAMPLE BEFORE 41.4 M.

NORANDA EXPLORATION

Trench QL-90.S Page # 2/2

Survey Prs.	Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor unit	Description
11m	44–50	R141387	34	505	Graphitic Schist	Phyll.		Dark grey graphitic schist w rusty bands or lenses // to schistosity and rusty cross-cutting veinlets.
10m	55–60		36	461				
10m	65–70	389	18	667				
	75							
	80				No o/c			END OF TRENCH 80 M.

NORANDA EXPLORATION

Field Co-ordinates

Northing	Easting	Elevation
99+00 N	≈ 98+60 E	
	Length: 63 m	Bearing: 105°

SAMPLES K143370-377

Project #	Property
347	Quartz Lake

Survey Co-ordinates

Northing	Easting	Elevation	Magnetic Declination	Date Started	Scale
				9/09/90	1 □/m
	Length: 63 m.	Bearing	Mapped by: D.H.	Date Completed: 9/09/90	N.T.S. #: 95 D/12

Trench #: QL-90.6 — Page #: 1/2

Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor unit	Description
0–18	(trench)			Ls o/c			
	K143370	15	74	Mostly qtzite w. argillite bands			GREY QTZITE ARG. CUT BY THIN QTZ VEINLETS
				arg		arg	
	371	23	876				GREY RUSTY QTZITE? + RUSTY ARGILLITE
	372	26	588				RUSTY SHEARED QTZITE SERICITIC PARTING CUT BY NETWORK OF MM. QTZ VEINLETS.
	373	53	1030	Black phyllite	Sampled on wall	arg?	BLACK PHYLLITE-ARG? LOC RUSTY
	374	26	33				RUSTY QTZITE (STRATA ABOVE STRIKES S /45 W. THEN BACK DOWN TO ARGILLITE - LOOSE RUS SHALE IN ROAD.

NORANDA EXPLORATION

Trench QL-90-6 | Page # 2/2

Survey ...

Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor unit	Description
2m	375	43	698				BLACK FX W WHITE QTZ FX POSSIBLY QTZITE W FINE DISS PY ≤ 5%
50							
55	376	12	180				GREY AND DK GREY QTZITE? W QTZ PODS LOC RUSTY + PY CASTS
3.5m							
60							
63	377	61	[illegible]				RUSTY weathering QTZITE? SUBSTOSE WITH THIN QTZ VEINING + FINE DISS PY 1-2%. OPEN SPACE VUGS
1m							END OF TRENCH 63m

NORANDA EXPLORATION

Field Co-ordinates			
Northing 99+50N	Easting 100+00E	Elevation	
	Length 95m	Bearing E-W	

SAMPLES [illegible]378-386

Survey Co-ordinates						
Northing	Easting	Elevation	Project # 347	Property Quartz Lake		
	Length 95 m.	Bearing	Magnetic Declination	Date Started 10/10/90	Scale 1 □/m	
			Mapped by [illegible]	Date Completed 10/10/90	N.T.S. # 95 D/12	

Trench [illegible] Page # 1/2

Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor unit	Description
1–3				Noole			
4–6	[illegible]378	34	505	Qtz. [illegible]	Qb[illegible]		ALTERNANCE OF GREY CALCITE [illegible] / THIN ARGILLITE. RUSTY [illegible]
				a-s. [illegible]			← SULPHIDES 20% in one block
8–12	379	36	461				
13–17	380	18	667				
18–30	381	18	310				
32–43				NO O/C			

NORANDA EXPLORATION

Trench Glacier | Page # 2/2

Survey pts.	Metres	Sample #	Au (ppb)	As ppm	Strip log	Major unit	Minor unit	Description
	45							
	50							
	55							
	60							MASSIVE QTZITE IN ROAD
8.0m	65	382	6	18				
	70							GREY QTZITE Gtn MASSIVE, SOME Rx ON WALL
8.5m	75	383	6	32				
7.5m	80							Alternance of fragmental and massive qtzite
	85	384	8	30				
7m	90	385	15	232				FX OF QTZITE IN CLAY MATRIX, GOUGE ?
2.5m	95	R386	10	971				" " " ENDS IN RUSTY SEIL END OF TRENCH 95 M

APPENDIX III

ANALYTICAL RESULTS

SEP 14 '90 13:51 160 P02

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: SEP 6 1990

DATE REPORT MAILED: Sept. 14/90

GEOCHEMICAL ANALYSIS CERTIFICATE

Noranda Exploration Co. Ltd. PROJECT 9009-029 347 FILE # 90-4236R Page 1
P.O. Box 2380, 1050 Davie, Vancouver BC V6B 3T5

SAMPLE#	AU* ppb
BL 10000N 8600E	4
BL 10000N 8650E	3
BL 10000N 8700E	1
BL 10000N 8750E	1
BL 10000N 8800E	1
BL 10000N 8850E	1
BL 10000N 8900E	1
BL 10000N 8950E	1
BL 10000N 9000E	1
BL 10000N 9050E	1
BL 10000N 9100E	3
BL 10000N 9150E	2
BL 10000N 9200E	1
BL 10000N 9250E	1
BL 10000N 9300E	2
BL 10000N 9350E	1
BL 10000N 9400E	2
BL 10000N 9450E	2
BL 10000N 9500E	2
BL 10000N 9550E	1
BL 10000N 9600E	2
BL 100+00N 92+00E	1
BL 100+00N 92+50E	1
BL 100+00N 93+00E	1
BL 100+00N 93+50E	1
BL 100+00N 94+00E	1
BL 100+00N 94+50E	1
BL 100+00N 95+00E	1
BL 100+00N 95+50E	1
BL 100+00N 96+50E	1
BL 100+00N 97+00E	1
BL 100+00N 97+50E	1
BL 100+00N 98+00E	15
BL 100+00N 99+00E	1
BL 100+00N 99+50E	5
BL 100+00N 100+50E	10
STANDARD AU-S	48

- SAMPLE TYPE: P1-P14 SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY. C. Leong, D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Noranda Exploration Co. Ltd. PROJECT 9009-029 347 FILE # 90-4236R Page 2

SAMPLE#	AU* ppb
BL L100+00N 101+00E	11
BL L100+00N 101+50E	2
BL L100+00N 102+00E	2
BL L100+00N 102+50E	1
BL L100+00N 103+00E	5
BL L100+00N 103+50E	15
BL L100+00N 104+00E	3
L98+00N 82+00E	1
L98+00N 85+00E	1
L98+00N 87+00E	43
L98+00N 89+00E	30
L98+00N 91+00E	1
L98+00N 93+00E	1
L98+00N 95+00E	1
L98+00N 97+00E	1
9800N 9700E	1
9800N 9800E	2
9800N 9900E	2
9800N 10100E	1
9800N 10300E	3
9600N 8500E	1
9600N 8700E	1
9600N 8900E	2
9600N 9100E	1
9600N 9300E	1
9600N 9500E	1
9600N 9700E	1
9600N 9700E (A)	1
9600N 9900E	1
9600N 10100E	2
9400N 9500E	2
9400N 9300E	1
9400N 9100E	2
9400N 8900E	1
9400N 8700E	1
9400N 8500E	1
STANDARD AU-S	53

Noranda Exploration Co. Ltd, PROJECT 9009-029 347 FILE # 90-4236R Page 3

SAMPLE#	AU* ppb
L92+00N 81+00E	4
L92+00N 83+00E	3
L92+00N 85+00E	2
L92+00N 87+00E	1
L92+00N 89+00E	2
L92+00N 91+00E	2
L92+00N 93+00E	3
L92+00N 95+00E	4
L92+00N 97+00E	1
L78+00E 91+50N	1
L78+00E 90+50N	1
L78+00E 90+00N	1
L78+00E 89+00N	3
L78+00E 88+50N	1
L78+00E 88+00N	4
L78+00E 87+50N	1
L78+00E 87+00N	3
L78+00E 86+00N	1
L80+00E 91+50N	3
L80+00E 91+00N	3
L80+00E 90+50N	1
L80+00E 90+00N	1
L80+00E 89+00N	4
L80+00E 88+50N	1
L80+00E 88+00N	1
L80+00E 87+00N	1
L80+00E 86+50N	1
L82+00E 99+50N	2
L82+00E 99+00N	21
L82+00E 98+50N	1
L82+00E 98+00N	1
L82+00E 97+50N	9
L82+00E 97+00N	1
L82+00E 96+50N	2
L82+00E 96+00N	1
L82+00E 95+50N	2
STANDARD AU-S	52

Noranda Exploration Co. Ltd. PROJECT 9009-029 347 FILE # 90-4236R Page 4

SAMPLE#	AU* ppb
L82+00E 95+00N	1
L82+00E 94+50N	6
L82+00E 94+00N	3
L82+00E 92+50N	1
L82+00E 92+00N	2
L82+00E 91+50N	1
L82+00E 91+00N	1
L82+00E 90+50N	1
L82+00E 90+00N	1
L82+00E 89+50N	1
L82+00E 89+00N	1
L82+00E 88+50N	2
L82+00E 88+00N	1
L82+00E 87+50N	2
L82+00E 87+00N	1
L82+00E 86+50N	1
8400E 9950N	1
8400E 9900N	1
8400E 9850N	1
8400E 9800N	3
8400E 9750N	1
8400E 9700N	1
8400E 9650N	1
8400E 9600N	1
8400E 9550N	1
8400E 9500N	1
8400E 9450N	1
8400E 9400N	1
8400E 9350N	1
8400E 9300N	1
8400E 9200N	3
8400E 9150N	1
8400E 9100N	2
8400E 9050N	1
8400E 9000N	1
8400E 8950N	1
STANDARD AU-S	53

Noranda Exploration Co. Ltd. PROJECT 9009-029 347 FILE # 90-4236R Page 5

SAMPLE#	AU* ppb
8400E 8900N	2
8400E 8850N	2
8400E 8800N	1
8400E 8700N	3
8400E 8650N	1
L8600E 9950N	2
L8600E 9900N	1
L8600E 9850N	1
L8600E 9800N	3
L8600E 9750N	82
L8600E 9700N	1
L8600E 9650N	1
L8600E 9550N	7
L8600E 9500N	2
L8600E 9450N	1
L8600E 9400N	2
L8600E 9350N	2
L8600E 9300N	2
L8600E 9250N	1
L8600E 9200N	4
L8600E 9150N	3
L8600E 9100N	1
L8600E 9050N	2
L8600E 9000N	3
L8600E 8900N	4
L8600E 8850N	3
L8600E 8800N	2
L8600E 8750N	4
L8600E 8700N	2
L8600E 8650N	1
L88+00E 103+50N	3
L88+00E 103+00N	1
L88+00E 102+50N	1
L88+00E 102+00N	3
L88+00E 101+50N	5
L88+00E 101+00N	3
STANDARD AU-S	46

Noranda Exploration Co. Ltd. PROJECT 9009-029 347 FILE # 90-4236R Page 6

SAMPLE#	AU* ppb
L88+00E 100+50N	8
L88+00E 99+50N	7
L88+00E 99+00N	2
L88+00E 98+50N	5
L88+00E 98+00N	9
L88+00E 97+50N	1
L88+00E 97+00N	2
L88+00E 96+50N	1
L88+00E 96+00N	4
L88+00E 95+50N	3
L88+00E 95+00N	1
L88+00E 94+50N	1
L88+00E 94+00N	7
L88+00E 93+50N	1
L88+00E 93+00N	4
L88+00E 92+50N	5
L88+00E 92+00N	9
L88+00E 91+50N	2
L88+00E 91+00N	7
L88+00E 90+50N	14
L88+00E 90+00N	1
L88+00E 89+50N	5
L88+00E 89+00N	1
L88+00E 88+50N	1
L88+00E 88+00N	2
L88+00E 87+50N	8
L88+00E 87+00N	4
L88+00E 86+50N	1
9000E 9950N	2
9000E 9900N	1
9000E 9850N	1
9000E 9800N	2
9000E 9750N	1
9000E 9700N	1
9000E 9650N	1
9000E 9600N	3
STANDARD AU-S	45

Noranda Exploration Co. Ltd. PROJECT 9009-029 347 FILE # 90-4236R Page 7

SAMPLE#	AU* ppb
9000E 9550N	1
9000E 9500N	1
9000E 9450N	49
9000E 9400N	1
9000E 9350N	1
9000E 9300N	1
9000E 9250N	1
9000E 9200N	1
9000E 9150N	1
9000E 9100N	8
9000E 9050N	2
9000E 9000N	1
9000E 8950N	2
9000E 8900N	2
9000E 8850N	7
9000E 8800N	1
9000E 8750N	1
9000E 8700N	2
9000E 8650N	1
9200E 10900N	3
9200E 10850N	3
9200E 10800N	3
9200E 10750N	3
9200E 10700N	1
9200E 10650N	4
9200E 10600N	4
9200E 10550N	2
9200E 10450N	7
9200E 10300N	1
9200E 10250N	1
9200E 10200N	3
9200E 10150N	4
9200E 10100N	1
9200E 10050N	1
9200E 9900N	2
9200E 9850N	1
STANDARD AU-S	46

Noranda Exploration Co. Ltd. PROJECT 9009-029 347 FILE # 90-4236 R Page 8

SAMPLE#	AU* ppb
9200E 9800N	1
9200E 9750N	2
9200E 9700N	2
9200E 9650N	1
9200E 9600N	1
9200E 9550N	1
9200E 9500N	1
9200E 9450N	1
9200E 9400N	1
9200E 9350N	2
9200E 9300N	1
9200E 9250N	2
9200E 9200N	8
9200E 9150N	2
9200E 9100N	1
9200E 9050N	1
9200E 9000N	2
9200E 8950N	1
9200E 8900N	4
9200E 8850N	1
9200E 8800N	1
9200E 8750N	1
9200E 8700N	3
9200E 8650N	2
9400E 10900N	3
9400E 10850N	1
9400E 10800N	4
9400E 10750N	7
9400E 10700N	35
9400E 10650N	8
9400E 10600N	3
9400E 10550N	2
9400E 10500N	3
9400E 10350N	1
9400E 10300N	1
9400E 10250N	1
STANDARD AU-S	49

Noranda Exploration Co. Ltd. PROJECT 9009-029 147 FILE # 90-4236R Page 9

SAMPLE#	AU* ppb
9400E 10200N	10
9400E 10150N	1
9400E 10100N	1
9400E 10050N	2
9400E 9950N	3
9400E 9900N	1
9400E 9850N	3
9400E 9800N	1
9400E 9750N	3
9400E 9700N	4
9400E 9650N	1
9400E 9600N	1
9400E 9550N	1
9400E 9500N	1
9400E 9450N	2
9400E 9400N	7
9400E 9350N	1
9400E 9300N	1
9400E 9250N	1
9400E 9200N	1
9400E 9150N	1
9400E 9100N	1
9400E 9050N	2
9400E 9000N	1
9400E 8950N	1
9400E 8900N	1
9400E 8850N	4
9400E 8800N	1
9600E 10450N	7
9600E 10400N	2
9600E 10350N	1
9600E 10300N	1
9600E 10250N	1
9600E 10200N	1
9600E 10150N	1
9600E 10100N	20
STANDARD AU-S	48

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SAMPLE#	AU* ppb
L9600E 10050N	5
L9600E 10000N	1
L9600E 9950N	1
L9600E 9900N	1
L9600E 9850N	1
L9600E 9800N	1
L9600E 9750N	1
L9600E 9700N	5
L9600E 9650N	1
L9600E 9600N	2
L9600E 9550N	3
L9600E 9500N	2
L9600E 9450N	3
L9600E 9400N	1
L9600E 9350N	1
L9600E 9300N	1
L9600E 9250N	1
L9600E 9200N	1
L9600E 9150N	1
L9600E 9100N	1
L9600E 9050N	1
L9600E 9000N	7
L9600E 8950N	1
L9600E 8900N	2
L9600E 8850N	2
L9600E 8800N	1
L9600E 8750N	1
9800E 9000N	12
9800E 8950N	7
9800E 8900N	1
9800E 8850N	1
9800E 8800N	2
9800E 8750N	2
9800E 8700N	1
9800E 8650N	2
L99+00E 86+50N	3
STANDARD AU-8	51

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SAMPLE#	AU* ppb
L10000E 10850N	4
L10000E 10800N	3
L10000E 10750N	2
L10000E 10700N	1
L10000E 10650N	2
L10000E 10600N	3
L10000E 10550N	2
L10000E 10500N	1
L10000E 10450N	3
L10000E 10400N	21
L10000E 10350N	2
L10000E 10300N	2
L10000E 10250N	1
L10000E 10200N	1
L10000E 10150N	5
L10000E 10100N	2
L10000E 10050N	2
L100+00E 99+50N	2
L100+00E 99+00N	1
L100+00E 98+50N	5
L100+00E 98+00N	1
L100+00E 97+50N	1
L100+00E 97+00N	5
L100+00E 96+50N	1
L100+00E 96+00N	1
L100+00E 95+50N	5
L100+00E 95+00N	6
L100+00E 94+50N	9
L100+00E 94+00N	5
L100+00E 93+50N	7
L100+00E 93+00N	4
L100+00E 92+50N	9
L100+00E 92+00N	14
L100+00E 91+50N	6
L100+00E 91+00N	1
L100+00E 90+50N	1
STANDARD AU-S	55

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SAMPLE#	AU* ppb
L100+00E 90+00N	4
L100+00E 89+50N	1
L100+00E 89+00N	2
L100+00E 88+50N	1
L100+00E 88+00N	2
L100+00E 87+50N	1
L100+00E 87+00N	1
L100+00E 86+50N	4
10200E 104+50N	1
10200E 104+00N	3
10200E 103+50N	1
10200E 103+00N	1
10200E 102+50N	1
10200E 102+00N	1
10200E 101+50N	1
10200E 101+00N	1
10200E 100+50N	1
10200E 9950N	1
10200E 9900N	1
10200E 9850N	1
10200E 9800N	1
10200E 9750N	1
10200E 9700N	56
10200E 9650N	7
10200E 9600N	4
10200E 9550N	4
L104+00E 104+50N	28
L104+00E 104+00N	1
L104+00E 103+50N	1
L104+00E 103+00N	15
L104+00E 102+50N	4
L104+00E 102+00N	44
L104+00E 101+50N	3
L104+00E 101+00N	13
L104+00E 100+50N	2
L104+00E 99+50N	16
L104+00E 99+00N	15
STANDARD AU-S	47

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SAMPLE#	AU* ppb
L104+00E 98+50N	6
L104+00E 98+00N	5
L104+00E 97+50N	2
L104+00E 97+00N	1
L104+00E 96+50N	3
L104+00E 96+00N	7
L104+00E 95+50N	2
P138515	11
P142601	37
P142602	4
P142603	2
P142604	1
P142605	2
P142606	2
P142607	5
P142608	12
P142609	3
P142610	2
P142611	1
P142612	3
P142613	1
P142614	3
P142615	5
P142616	1
P142617	4
P142618	3
P142619	25
P142620	7
P142621	1
P142622	2
P142623	2
P142624	2
P142625	1
P142626	4
P142627	1
P142628	1
STANDARD AU-S	49

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SAMPLE#	AU* ppb
P142629	5
P142630	10
P142631	2
P142632	2
P142633	6
P142634	45
P142635	56
P142636	3
P142637	1

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Quartz JD.

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P.O. Box 2380, 1050 Davie, Vancouver BC V6B 3T5

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
BL 10000N 8600E	2	6	14	105	.4	12	5	161	1.82	8	5	ND	5	6	.3	2	2	39	.06	.035	15	19	.22	173	.03	6	1.22	.01	.03	1	30
BL 10000N 8650E	2	16	10	101	.3	21	4	125	1.97	22	6	ND	5	11	.2	2	2	34	.14	.050	17	17	.25	177	.02	5	.81	.01	.03	1	20
BL 10000N 8700E	3	10	17	212	.5	22	8	201	2.41	13	5	ND	5	6	.6	2	2	53	.06	.046	16	24	.35	236	.02	5	1.45	.01	.04	1	20
BL 10000N 8750E	2	6	9	124	.5	18	5	160	2.32	9	5	ND	5	7	.2	2	2	36	.06	.039	14	24	.34	179	.03	5	1.41	.01	.04	1	20
BL 10000N 8800E	3	5	10	79	.1	11	3	80	1.54	9	5	ND	2	7	.2	3	2	58	.07	.049	14	16	.20	202	.02	5	.89	.01	.04	1	10
BL 10000N 8850E	1	3	3	20	.1	2	1	45	.31	2	5	ND	1	4	.4	2	2	34	.03	.014	18	7	.04	143	.02	4	.38	.01	.02	1	5
BL 10000N 8900E	2	4	11	63	.1	7	3	146	1.98	8	5	ND	2	6	.9	2	3	50	.06	.079	17	15	.17	125	.05	5	.81	.01	.03	1	10
BL 10000N 8950E	2	4	5	56	.1	6	2	52	.80	2	5	ND	1	7	2.2	2	2	58	.06	.015	16	12	.05	182	.03	2	.45	.01	.02	1	10
BL 10000N 9000E	2	27	13	198	.3	10	3	67	.81	6	8	ND	1	31	2.9	3	2	89	.47	.043	9	14	.15	355	.01	6	.75	.01	.03	1	60
BL 10000N 9050E	3	12	5	106	1.3	5	2	566	.57	7	9	ND	1	159	4.0	2	2	16	3.33	.068	3	5	.12	412	.01	5	.57	.01	.03	1	50
BL 10000N 9100E	2	24	14	209	.4	32	8	300	1.85	6	5	ND	3	64	1.8	2	2	47	1.15	.080	17	20	.39	629	.02	5	.90	.01	.05	1	60
BL 10000N 9150E	6	17	9	247	.2	28	6	230	1.77	11	5	ND	3	12	2.6	2	2	159	.14	.039	17	22	.41	502	.01	5	.98	.01	.06	1	20
BL 10000N 9200E	4	19	16	222	.4	38	6	222	2.02	11	6	ND	4	11	.4	4	2	64	.13	.071	15	19	.31	298	.02	8	1.12	.01	.04	1	30
BL 10000N 9250E	2	11	8	119	.2	18	5	202	1.65	7	5	ND	3	23	.2	2	4	38	.28	.070	15	17	.34	314	.02	6	.81	.01	.04	1	30
BL 10000N 9300E	3	21	12	149	.1	26	7	273	1.99	7	6	ND	3	19	.4	2	2	48	.24	.066	24	19	.33	392	.02	5	.89	.01	.04	1	40
BL 10000N 9350E	2	23	15	123	.1	28	5	171	2.50	13	5	ND	7	10	.2	2	2	39	.12	.053	29	19	.29	212	.02	2	.99	.01	.04	1	30
BL 10000N 9400E	16	26	17	397	.6	75	7	182	1.97	16	7	ND	3	24	1.9	4	2	322	.16	.058	18	32	.38	1219	.03	5	1.26	.01	.06	1	70
BL 10000N 9450E	5	17	20	277	.3	33	10	276	2.86	15	5	ND	5	8	.6	3	2	97	.05	.053	18	30	.42	336	.02	6	1.55	.01	.06	1	60
BL 10000N 9500E	12	32	15	431	1.1	57	9	301	2.81	21	5	ND	5	43	.9	5	5	284	.28	.112	20	40	.67	793	.03	5	1.32	.01	.08	1	40
BL 10000N 9550E	2	3	7	27	.1	4	1	50	.65	2	5	ND	1	6	.8	2	2	36	.06	.018	14	9	.06	147	.02	2	.40	.01	.02	1	30
BL 10000N 9600E	3	6	10	187	.4	11	5	286	1.98	7	5	ND	3	15	1.6	2	2	55	.17	.044	15	19	.24	293	.03	6	.96	.01	.06	1	30
BL 100+00N 92+00E	2	6	11	113	.2	11	4	117	2.22	7	5	ND	4	6	.2	2	3	62	.05	.066	17	20	.30	191	.02	4	1.23	.01	.03	1	40
BL 100+00N 92+50E	3	18	18	146	.1	28	7	146	2.59	13	6	ND	6	10	.2	2	3	61	.08	.056	22	24	.40	239	.02	5	1.49	.01	.04	1	20
BL 100+00N 93+00E	2	14	9	90	.1	16	3	96	1.59	6	5	ND	3	8	.4	2	2	43	.08	.059	15	12	.19	132	.02	4	.72	.01	.03	1	30
BL 100+00N 93+50E	2	4	5	46	.1	8	2	66	.95	2	5	ND	3	9	3.0	2	2	31	.06	.021	17	10	.09	233	.02	6	.57	.01	.03	2	5
BL 100+00N 94+00E	4	13	17	208	.2	29	7	215	3.79	15	5	ND	4	8	.5	2	2	111	.06	.101	16	29	.47	193	.02	2	1.69	.01	.05	1	20
BL 100+00N 94+50E	3	10	8	156	.5	19	6	172	2.03	10	5	ND	5	7	.4	2	4	94	.06	.056	19	24	.33	228	.03	2	1.26	.01	.04	1	30
BL 100+00N 95+00E	4	14	15	290	.3	34	8	301	2.64	16	5	ND	6	16	1.7	4	2	107	.16	.110	19	28	.53	293	.02	5	1.45	.01	.05	1	5
BL 100+00N 95+50E	3	5	8	147	.1	17	5	328	1.71	8	5	ND	3	7	1.5	2	3	102	.06	.047	18	19	.23	184	.03	4	.88	.01	.04	1	20
BL 100+00N 96+50E	2	5	11	78	.1	10	3	99	1.87	52	5	ND	3	9	1.0	2	5	40	.06	.032	13	12	.16	238	.02	4	.77	.01	.03	1	10
BL 100+00N 97+00E	3	9	8	80	.2	10	3	91	1.32	10	5	ND	2	5	.2	2	2	61	.03	.050	15	14	.13	142	.02	3	.68	.01	.03	1	20
BL 100+00N 97+50E	1	4	10	51	.1	6	2	79	1.43	8	5	ND	3	5	.2	2	3	36	.04	.032	17	12	.13	85	.02	3	.80	.01	.03	2	10
BL 100+00N 98+00E	2	51	26	182	.3	41	12	346	3.71	1028	5	ND	14	75	.3	10	11	36	1.13	.084	18	20	.48	453	.01	5	1.14	.01	.07	1	50
BL 100+00N 99+00E	2	13	14	76	.1	18	5	131	1.85	49	9	ND	4	9	.2	2	4	33	.07	.031	24	16	.30	246	.01	6	1.09	.01	.05	1	10
BL 100+00N 99+50E	1	10	15	32	.1	5	2	71	.79	40	5	ND	1	21	.5	2	5	14	.34	.034	6	5	.05	140	.01	3	.41	.02	.04	1	30
BL 100+00N 100+50E	2	21	12	67	.1	15	4	105	2.68	88	5	ND	6	8	.2	2	4	37	.04	.036	16	22	.23	87	.02	4	1.23	.01	.03	1	20
STANDARD C	18	58	39	131	6.8	70	31	1052	3.98	40	17	7	36	53	18.7	15	21	56	.51	.097	37	57	.90	180	.07	35	1.88	.06	.14	11	1300

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-P14 SOIL P15 ROCK HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: SEP 6 1990 DATE REPORT MAILED: Sept 13/90. SIGNED BY: C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
BL L100+00N 101+00E	1	11	11	43	.1	24	5	66	1.93	69	5	ND	7	7	.2	2	2	23	.06	.028	18	17	.22	65	.02	3	.98	.01	.03	2	20
BL L100+00N 101+50E	1	4	20	30	.1	4	2	31	1.01	113	5	ND	7	5	.2	3	7	14	.04	.015	26	5	.03	49	.01	4	.55	.01	.03	1	10
BL L100+00N 102+00E	1	33	23	35	1.3	10	2	20	1.01	58	5	ND	1	8	.2	3	12	5	.17	.098	5	3	.02	49	.01	4	.38	.01	.05	1	60
BL L100+00N 102+50E	1	1	8	11	.1	1	1	13	.35	27	5	ND	1	4	.2	2	3	15	.03	.010	23	5	.02	37	.03	3	.36	.01	.02	1	5
BL L100+00N 103+00E	2	12	14	55	.3	14	7	138	3.57	113	5	ND	9	9	.2	2	7	36	.04	.037	16	24	.20	91	.04	2	1.64	.01	.03	1	20
BL L100+00N 103+50E	2	10	32	20	.1	5	6	25	9.00	1666	5	ND	7	2	.2	5	4	34	.01	.057	15	12	.03	32	.02	2	.67	.01	.02	1	30
BL L100+00N 104+00E	1	3	11	27	.3	4	2	60	1.56	34	5	ND	5	4	.2	3	3	28	.04	.014	17	12	.11	49	.02	2	.70	.01	.02	1	10
L98+00N 82+00E	2	7	9	122	.8	18	6	144	2.90	10	5	ND	5	5	.6	2	2	49	.04	.072	14	22	.27	129	.02	4	1.47	.01	.04	1	30
L98+00N 85+00E	2	1	8	43	.1	4	2	49	.86	4	5	ND	1	6	.2	2	2	40	.06	.020	16	11	.14	139	.02	2	.67	.01	.03	1	10
L98+00N 87+00E	4	8	11	85	.1	18	4	85	2.85	17	5	ND	1	6	.5	2	3	119	.04	.098	15	20	.24	114	.02	2	.94	.01	.03	1	20
L98+00N 89+00E	2	4	8	74	.1	11	4	91	2.12	10	5	ND	2	5	.2	2	2	52	.04	.040	15	16	.19	123	.02	2	1.02	.01	.03	1	10
L98+00N 91+00E	8	23	31	166	.1	35	6	131	2.78	20	5	ND	3	12	1.5	4	2	117	.16	.048	16	20	.27	385	.01	2	1.19	.01	.04	1	40
L98+00N 93+00E	3	8	9	104	.2	18	5	113	2.43	17	5	ND	4	6	.6	2	3	85	.04	.070	19	19	.20	153	.02	2	.91	.01	.04	1	10
L98+00N 95+00E	4	10	16	159	.1	22	6	146	2.93	18	5	ND	5	7	.7	2	5	91	.05	.078	17	24	.26	192	.02	6	1.14	.01	.04	1	20
L98+00N 97+00E	3	8	15	118	.1	17	5	125	2.58	13	5	ND	5	6	.6	2	4	83	.04	.070	17	20	.21	160	.02	4	.99	.01	.04	1	20
9800N 9700E	7	44	20	338	.2	64	13	189	2.91	20	5	ND	6	19	1.1	4	4	125	.26	.063	17	27	.56	659	.02	4	1.66	.01	.07	1	30
9800N 9800E	2	18	31	85	.5	21	11	375	3.17	56	5	ND	6	10	.2	4	7	40	.08	.037	21	19	.34	236	.01	2	1.20	.01	.04	1	20
9800N 9900E	2	8	14	69	.1	17	5	116	1.56	22	5	ND	5	7	.2	3	3	49	.04	.019	25	14	.28	185	.01	2	1.01	.01	.04	1	5
9800N 10100E	2	13	76	114	2.0	15	6	186	3.85	326	5	ND	4	7	.2	10	5	50	.04	.102	17	26	.25	101	.04	2	1.71	.01	.05	1	40
9800N 10300E	2	1	671	8	1.2	1	1	5	1.73	75	5	ND	3	3	.2	28	29	8	.01	.023	21	4	.01	84	.01	8	.25	.02	.13	1	20
9600N 8500E	3	5	26	116	.2	13	6	162	2.44	7	5	ND	5	8	1.1	2	2	51	.07	.036	18	20	.23	154	.03	4	1.19	.01	.03	1	10
9600N 8700E	2	7	10	127	.1	14	4	434	1.56	4	5	ND	4	6	.6	2	4	54	.06	.022	16	17	.32	276	.01	6	1.18	.01	.03	1	20
9600N 8900E	4	9	11	114	.1	15	5	109	1.85	10	5	ND	3	9	.4	2	2	64	.11	.021	19	17	.33	251	.02	2	1.04	.01	.05	1	5
9600N 9100E	5	6	15	172	.1	20	6	123	2.78	13	5	ND	4	6	.7	3	4	137	.07	.038	18	27	.28	216	.04	3	1.21	.01	.04	1	5
9600N 9300E	2	10	14	101	.5	16	7	174	3.39	12	5	ND	5	7	.4	2	2	49	.06	.062	19	24	.29	117	.03	3	1.40	.01	.04	1	20
9600N 9500E	8	13	16	174	.1	25	5	114	3.50	22	5	ND	3	5	.2	4	5	187	.04	.110	21	23	.22	174	.03	3	.99	.01	.05	1	10
9600N 9700E	4	27	18	201	.2	37	9	253	2.37	42	5	ND	5	52	1.0	3	2	91	.48	.093	25	19	.45	717	.02	3	.83	.01	.05	1	40
9600N 9700E (A)	6	17	24	213	.1	32	8	192	4.11	19	5	ND	4	14	.8	2	2	138	.15	.122	19	30	.42	371	.02	6	1.38	.01	.06	1	10
9600N 9900E	3	35	23	174	.2	33	12	373	6.70	162	5	ND	6	10	.2	4	5	46	.10	.065	20	16	.15	328	.01	2	.92	.01	.05	1	20
9600N 10100E	2	10	16	66	.2	13	6	152	2.94	98	5	ND	8	8	.2	4	3	40	.09	.038	22	20	.19	82	.02	3	1.17	.01	.06	1	20
9400N 9500E	3	9	15	115	.3	19	7	157	2.54	13	5	ND	6	6	.2	5	2	41	.05	.062	16	22	.35	112	.02	5	1.22	.01	.04	1	5
9400N 9300E	2	16	15	129	.1	34	9	186	2.33	10	5	ND	7	11	.4	2	2	37	.13	.063	19	23	.41	185	.02	6	1.20	.01	.04	1	10
9400N 9100E	4	11	11	111	.1	14	3	96	1.63	13	5	ND	2	8	.2	2	4	93	.07	.035	15	16	.31	147	.02	3	.80	.01	.04	1	5
9400N 8900E	2	3	21	96	.3	8	4	127	2.35	12	5	ND	2	6	.4	2	2	65	.07	.095	17	20	.23	115	.04	3	1.03	.01	.04	1	10
9400N 8700E	2	7	16	95	.5	20	7	157	3.49	10	5	ND	6	7	.2	2	3	40	.07	.044	18	28	.40	115	.03	3	1.66	.01	.04	1	30
9400N 8500E	1	14	18	85	.4	16	5	282	2.21	10	6	ND	2	53	.9	3	2	38	.96	.069	18	19	.37	387	.01	4	1.22	.01	.06	1	40
STANDARD C	19	59	39	131	6.8	72	32	1052	3.97	38	19	7	38	53	19.8	15	19	55	.52	.093	38	56	.90	181	.07	35	1.89	.06	.14	13	1600

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
L92+00N 81+00E	3	16	15	145	.2	32	7	180	2.41	13	5	ND	4	15	.9	3	2	54	.17	.085	15	22	.30	216	.02	2	1.00	.01	.05	1	20
L92+00N 83+00E	3	16	11	147	.3	34	7	201	2.35	11	5	ND	4	17	.8	3	2	58	.19	.079	17	24	.28	194	.02	4	.86	.01	.05	1	10
L92+00N 85+00E	3	14	12	153	.3	33	7	209	2.37	11	5	ND	4	16	1.0	2	2	52	.17	.084	17	21	.30	208	.01	5	1.01	.01	.05	2	20
L92+00N 87+00E	3	19	12	164	.1	36	8	238	2.28	13	5	ND	5	18	1.0	2	2	54	.19	.079	18	21	.30	226	.02	5	.93	.01	.05	1	10
L92+00N 89+00E	3	18	8	162	.3	42	8	219	2.44	11	6	ND	5	18	.9	2	2	51	.20	.081	21	26	.30	211	.02	3	.92	.01	.05	1	5
L92+00N 91+00E	3	19	8	164	.3	40	9	234	2.24	13	5	ND	5	19	1.1	2	3	48	.21	.078	19	22	.30	219	.02	2	.90	.01	.05	2	5
L92+00N 93+00E	3	18	16	157	.3	34	8	206	2.18	9	5	ND	5	18	1.5	2	2	46	.19	.073	16	21	.30	216	.02	6	.92	.01	.05	2	10
L92+00N 95+00E	3	19	13	165	.1	37	8	228	2.22	10	5	ND	4	19	.9	3	2	49	.20	.075	20	22	.30	222	.02	5	.91	.01	.05	2	20
L92+00N 97+00E	2	8	5	60	.1	14	3	84	1.53	11	5	ND	2	7	.3	2	2	43	.07	.044	20	16	.17	99	.02	3	.65	.01	.04	1	10
L78+00E 91+50N	2	10	6	85	.3	11	3	66	1.21	4	5	ND	4	8	.8	2	2	43	.08	.025	19	14	.15	216	.02	4	.82	.01	.03	1	20
L78+00E 90+50N	2	8	10	77	.3	11	3	62	1.10	8	5	ND	3	7	.4	2	2	45	.07	.022	18	13	.14	199	.02	5	.76	.01	.03	1	20
L78+00E 90+00N	2	10	4	75	.2	10	2	60	1.10	7	5	ND	3	7	.5	2	2	44	.07	.023	18	13	.14	199	.02	3	.74	.01	.03	1	10
L78+00E 89+00N	2	10	8	87	.3	11	3	69	1.25	7	8	ND	4	8	.7	2	3	45	.08	.025	18	14	.15	213	.02	3	.84	.01	.03	1	10
L78+00E 88+50N	2	7	5	88	.2	11	3	68	1.31	7	5	ND	3	8	.6	2	2	49	.08	.024	18	14	.16	213	.02	2	.84	.01	.04	1	5
L78+00E 88+00N	2	12	11	99	.2	13	4	73	1.25	7	5	ND	4	9	.6	2	6	40	.09	.027	20	15	.15	244	.02	3	.89	.01	.03	1	10
L78+00E 87+50N	3	8	3	97	.3	14	4	80	1.46	7	5	ND	4	9	.6	2	2	51	.10	.033	19	15	.19	202	.02	4	.90	.01	.03	1	20
L78+00E 87+00N	2	4	7	57	.1	6	2	52	.94	7	5	ND	1	7	.7	2	2	44	.06	.022	17	12	.11	143	.01	3	.58	.01	.03	1	5
L78+00E 86+00N	2	7	8	71	.2	9	3	59	1.13	5	5	ND	3	7	.7	2	2	49	.06	.021	17	14	.13	180	.01	2	.77	.01	.03	1	5
L80+00E 91+50N	3	5	10	83	.3	8	3	109	1.60	10	5	ND	4	7	.2	2	2	65	.06	.023	19	16	.16	216	.02	3	.97	.01	.04	1	10
L80+00E 91+00N	3	5	6	72	.3	8	2	95	1.44	10	5	ND	4	7	.5	2	2	68	.06	.021	19	16	.16	209	.02	5	.88	.01	.04	1	10
L80+00E 90+50N	2	4	3	49	.3	5	2	58	.85	6	5	ND	4	6	.2	2	2	56	.05	.016	20	11	.12	164	.02	3	.60	.01	.03	1	5
L80+00E 90+00N	2	3	5	56	.1	6	2	73	1.03	8	5	ND	3	7	.2	2	2	62	.05	.018	19	13	.14	176	.02	2	.67	.01	.03	1	5
L80+00E 89+00N	2	4	10	62	.1	7	2	76	1.19	8	5	ND	3	7	.4	2	2	65	.05	.021	20	13	.15	193	.02	4	.73	.01	.04	1	5
L80+00E 88+50N	2	5	4	55	.2	7	2	65	.98	9	5	ND	3	6	.7	2	2	60	.05	.018	20	12	.13	172	.02	3	.68	.01	.04	1	5
L80+00E 88+00N	3	5	7	70	.4	6	2	84	1.35	8	5	ND	4	7	.4	2	2	67	.05	.021	19	13	.16	192	.02	3	.80	.01	.04	1	5
L80+00E 87+00N	2	5	5	65	.3	7	3	82	1.24	11	5	ND	4	7	.2	2	2	67	.05	.021	20	14	.15	181	.02	2	.74	.01	.04	1	10
L80+00E 86+50N	3	3	6	75	.3	8	3	93	1.46	9	5	ND	3	7	.4	2	2	68	.06	.022	19	14	.17	197	.02	2	.81	.01	.04	1	5
L82+00E 99+50N	3	6	5	61	.2	9	2	67	.88	5	5	ND	1	8	.9	2	2	76	.07	.024	16	16	.14	206	.02	3	.49	.02	.03	1	10
L82+00E 99+00N	2	7	11	122	.5	18	7	162	2.24	5	5	ND	5	9	.2	2	5	45	.09	.031	17	23	.31	233	.04	2	1.47	.01	.05	1	20
L82+00E 98+50N	4	7	12	110	.4	16	4	109	2.25	9	5	ND	2	5	.2	2	6	88	.04	.060	16	21	.23	166	.03	2	1.12	.01	.04	1	30
L82+00E 98+00N	5	10	15	143	.4	20	5	142	2.87	9	5	ND	3	6	.2	2	3	100	.04	.075	18	25	.29	197	.03	3	1.38	.01	.05	1	20
L82+00E 97+50N	2	3	3	34	.2	6	2	46	.82	4	5	ND	1	5	.2	2	4	35	.03	.023	19	11	.07	66	.02	3	.50	.01	.02	1	5
L82+00E 97+00N	2	6	7	93	.3	14	3	271	1.83	7	5	ND	3	6	.3	2	2	59	.05	.057	19	17	.16	116	.02	3	.78	.01	.04	1	5
L82+00E 96+50N	4	4	20	212	.7	16	6	195	3.20	7	5	ND	4	7	1.2	2	8	126	.06	.101	18	28	.29	231	.04	3	1.53	.01	.05	1	20
L82+00E 96+00N	2	3	10	51	.3	3	2	48	.83	4	5	ND	4	5	.4	2	2	61	.03	.011	20	13	.12	171	.03	2	.71	.01	.04	1	10
L82+00E 95+50N	2	23	12	140	.5	27	7	535	2.05	7	5	ND	2	50	2.1	2	2	38	.94	.071	18	17	.43	363	.02	6	1.03	.02	.06	1	50
STANDARD C	19	59	40	132	7.4	73	32	1053	3.97	37	19	7	38	55	19.3	15	20	56	.51	.095	39	57	.90	183	.07	35	1.89	.06	.13	11	1500

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
L82+00E 95+00N	2	5	6	49	.1	6	3	101	1.22	3	5	ND	1	5	.2	2	2	38	.08	.021	15	13	.19	91	.02	2	.69	.01	.03	1	5
L82+00E 94+50N	2	21	27	98	.4	25	15	1567	2.76	5	7	ND	3	41	1.3	2	2	38	.80	.081	17	20	.40	379	.01	4	1.50	.01	.07	1	70
L82+00E 94+00N	1	9	18	67	.2	10	5	484	1.18	2	5	ND	1	64	.6	2	2	18	1.60	.060	10	11	.22	246	.01	4	.76	.01	.05	1	50
L82+00E 92+50N	1	12	11	62	.3	14	6	213	1.63	6	9	ND	1	69	.2	2	2	23	1.79	.063	11	12	.25	261	.01	3	.96	.01	.05	1	50
L82+00E 92+00N	1	17	11	100	.3	19	9	466	2.13	5	5	ND	1	52	.5	2	4	33	1.35	.076	12	14	.27	388	.01	6	1.19	.01	.06	1	60
L82+00E 91+50N	1	9	14	68	.5	12	6	155	2.37	4	5	ND	7	9	.3	2	2	42	.09	.028	23	19	.27	150	.02	3	1.26	.01	.05	1	30
L82+00E 91+00N	1	3	9	38	.3	6	3	83	1.59	5	5	ND	1	6	.2	2	2	28	.04	.028	15	11	.13	51	.02	2	.63	.01	.03	1	20
L82+00E 90+50N	1	3	10	22	.1	4	2	48	.82	3	5	ND	1	6	.2	2	2	31	.03	.026	27	9	.06	48	.01	2	.65	.01	.02	1	10
L82+00E 90+00N	2	10	5	54	.1	9	6	513	2.01	6	5	ND	2	6	.2	2	2	32	.04	.060	25	9	.05	72	.01	2	.53	.01	.04	1	20
L82+00E 89+50N	1	5	20	44	.1	7	5	161	2.77	5	5	ND	4	7	.2	2	4	43	.05	.044	18	21	.19	71	.05	2	1.26	.01	.03	1	60
L82+00E 89+00N	2	6	15	67	.2	13	5	155	2.74	4	5	ND	5	8	.2	2	3	38	.07	.040	20	24	.35	98	.04	4	1.48	.01	.04	1	80
L82+00E 88+50N	2	6	14	56	.1	10	5	129	2.57	4	5	ND	5	6	.2	2	2	59	.04	.031	22	21	.26	96	.03	3	1.34	.01	.04	2	30
L82+00E 88+00N	1	3	8	32	.1	5	3	102	1.92	3	5	ND	2	6	.2	2	2	38	.04	.033	19	14	.13	54	.03	3	.86	.01	.03	1	20
L82+00E 87+50N	1	2	10	26	.1	4	2	66	1.25	4	5	ND	2	6	.2	2	3	38	.04	.023	24	12	.10	47	.04	2	.70	.01	.03	1	5
L82+00E 87+00N	1	5	12	55	.2	8	2	125	1.25	6	5	ND	4	14	.2	2	2	34	.23	.014	20	16	.25	155	.02	2	.96	.01	.04	1	10
L82+00E 86+50N	1	6	11	50	.1	8	4	119	2.87	4	5	ND	5	6	.2	2	7	49	.04	.057	20	20	.23	62	.05	3	1.14	.01	.03	1	10
8400E 9950N	2	7	11	109	.4	12	5	157	2.80	5	5	ND	5	6	.4	2	2	59	.05	.095	20	22	.24	112	.04	2	1.16	.01	.04	1	10
8400E 9900N	3	8	13	117	.1	13	4	183	2.23	6	5	ND	4	9	.2	2	6	65	.09	.066	19	20	.28	169	.03	3	1.02	.01	.05	1	20
8400E 9850N	4	12	20	171	.8	21	9	257	3.94	6	5	ND	4	7	1.5	4	5	80	.08	.145	18	36	.32	185	.07	3	2.18	.01	.05	1	80
8400E 9800N	5	14	16	173	.2	24	7	174	3.96	16	5	ND	5	7	.6	5	2	108	.06	.221	19	32	.36	157	.03	3	1.51	.01	.05	1	20
8400E 9750N	3	5	12	77	.4	11	4	90	2.35	7	5	ND	3	3	.4	2	2	82	.03	.079	19	21	.14	113	.03	2	1.07	.01	.03	1	40
8400E 9700N	4	13	22	193	.7	23	8	192	4.36	13	5	ND	5	8	1.4	2	2	97	.07	.193	17	33	.34	174	.04	2	2.12	.01	.05	1	60
8400E 9650N	2	6	17	159	.2	13	7	212	2.47	8	5	ND	4	6	1.4	2	3	56	.06	.054	19	22	.25	171	.03	3	1.31	.01	.04	1	10
8400E 9600N	3	9	8	109	.1	17	5	136	1.74	6	5	ND	4	8	.7	2	2	60	.09	.021	21	19	.30	336	.02	2	1.08	.01	.03	1	5
8400E 9550N	2	27	11	147	.3	31	9	788	2.01	8	5	ND	1	60	2.4	3	2	45	1.02	.078	17	17	.45	409	.02	2	1.05	.01	.05	1	60
8400E 9500N	2	20	10	148	.2	25	7	274	1.87	7	5	ND	1	55	1.4	2	2	52	.98	.070	15	20	.43	281	.02	2	1.09	.01	.05	1	50
8400E 9450N	2	16	17	123	.2	19	6	197	1.67	6	5	ND	2	40	.8	2	2	63	.57	.046	16	18	.38	317	.02	2	1.04	.01	.04	1	30
8400E 9400N	1	5	15	96	.1	11	5	156	2.02	3	5	ND	1	20	.2	2	2	39	.30	.024	19	18	.38	206	.02	2	1.17	.01	.04	1	10
8400E 9350N	1	22	25	111	.1	28	12	655	3.11	9	5	ND	6	30	.5	2	2	32	.48	.064	28	22	.59	246	.02	2	1.38	.01	.05	1	20
8400E 9300N	1	21	18	110	.1	25	11	1345	2.50	7	5	ND	2	60	.9	2	2	35	.99	.083	18	19	.44	416	.01	2	1.29	.01	.06	1	60
8400E 9200N	2	28	16	103	.4	31	15	2608	3.06	8	5	ND	1	69	1.0	2	2	36	1.03	.088	18	17	.34	475	.01	2	1.59	.01	.08	1	70
8400E 9150N	1	17	12	106	.1	28	11	2051	2.50	9	5	ND	2	53	.8	2	2	37	.77	.071	20	20	.36	485	.01	2	1.45	.01	.06	1	40
8400E 9100N	2	23	18	126	.1	30	13	868	3.26	10	5	ND	5	31	.8	4	3	40	.36	.065	28	19	.43	379	.01	3	1.35	.01	.07	1	30
8400E 9050N	2	25	22	129	.1	33	13	611	3.36	13	9	ND	4	34	1.0	4	5	41	.42	.068	25	20	.44	372	.01	6	1.49	.01	.09	1	50
8400E 9000N	1	20	17	81	.1	17	8	795	2.27	8	5	ND	1	40	.2	2	2	49	.54	.055	21	20	.24	411	.01	2	1.41	.01	.05	1	40
8400E 8950N	3	24	14	114	.3	23	10	310	3.34	11	8	18	7	15	.3	2	2	53	.14	.043	36	18	.42	250	.01	2	1.23	.01	.07	1	70
STANDARD C	18	57	36	131	6.5	68	31	1047	3.95	39	21	7	37	53	19.7	14	23	55	.50	.092	37	56	.88	180	.07	33	1.90	.06	.14	12	1600

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
8400E 8900N	2	15	18	103	.3	21	10	358	2.69	9	5	ND	6	14	.4	2	2	38	.20	.043	26	20	.40	227	.02	4	1.31	.01	.05	1	20
8400E 8850N	2	25	13	110	.3	32	13	366	3.94	8	5	ND	10	11	.2	3	2	40	.09	.043	38	19	.46	181	.01	4	1.39	.01	.06	1	40
8400E 8800N	2	18	18	97	.4	22	10	376	2.68	7	5	ND	2	31	.3	2	3	43	.53	.063	18	19	.34	323	.01	5	1.42	.01	.08	1	20
8400E 8700N	2	27	21	110	.2	27	13	622	3.04	7	6	ND	4	34	.5	2	2	38	.55	.064	22	20	.43	334	.01	4	1.49	.01	.08	1	40
8400E 8650N	1	27	18	97	.2	23	10	461	2.64	6	5	ND	2	46	.5	2	2	27	1.37	.071	16	16	.42	222	.01	6	1.28	.01	.07	1	30
L8600E 9950N	3	11	6	92	.2	15	4	102	2.06	10	5	ND	3	6	1.0	2	2	107	.07	.068	15	17	.19	96	.02	2	.65	.01	.03	1	20
L8600E 9900N	4	10	9	103	.1	17	5	179	2.29	12	5	ND	4	6	.5	2	6	115	.06	.073	19	22	.29	143	.03	3	.96	.01	.04	1	5
L8600E 9850N	3	9	10	116	.3	14	4	101	1.35	8	5	ND	5	13	.4	2	4	71	.12	.037	18	17	.29	280	.02	2	.94	.01	.04	1	30
L8600E 9800N	12	18	18	197	.1	37	7	347	3.88	30	5	ND	2	7	.9	6	2	158	.05	.106	15	23	.19	442	.03	3	.95	.01	.05	1	20
L8600E 9750N	2	7	10	60	.1	8	3	53	1.06	3	5	ND	3	5	.2	2	6	43	.04	.015	20	10	.12	133	.02	2	.59	.01	.03	1	5
L8600E 9700N	2	4	12	113	.3	10	5	102	1.89	7	5	ND	5	7	.3	2	2	41	.08	.020	16	18	.23	190	.04	3	1.20	.01	.04	1	10
L8600E 9650N	4	20	13	125	.2	26	6	123	2.26	14	5	ND	6	11	.9	2	2	52	.11	.031	21	19	.34	323	.02	4	.95	.01	.05	1	20
L8600E 9550N	4	20	23	170	.3	38	9	235	3.53	13	5	ND	7	9	.6	3	2	68	.09	.055	20	26	.40	213	.02	5	1.40	.01	.04	1	10
L8600E 9500N	2	8	11	73	.2	17	6	150	2.72	9	5	ND	5	7	.8	2	4	40	.06	.027	17	24	.32	141	.04	3	1.53	.01	.03	1	40
L8600E 9450N	3	9	13	79	.4	20	7	142	3.05	11	5	ND	6	7	.3	2	2	42	.06	.031	18	23	.33	123	.02	2	1.26	.01	.04	1	20
L8600E 9400N	2	8	17	85	.7	12	5	138	2.35	9	5	ND	6	6	.2	2	2	47	.06	.027	19	21	.26	136	.03	2	1.30	.01	.04	1	30
L8600E 9350N	1	7	10	42	.1	4	2	31	.50	3	5	ND	1	37	.9	2	4	19	.82	.019	15	11	.12	162	.02	2	.62	.01	.03	1	5
L8600E 9300N	1	29	25	130	.4	28	9	379	2.43	10	5	ND	2	74	1.3	3	2	32	1.55	.072	16	16	.39	375	.01	6	1.29	.01	.08	1	60
L8600E 9250N	1	31	13	97	.5	17	6	595	1.72	5	5	ND	1	97	1.9	2	2	24	2.15	.092	11	13	.30	381	.01	4	1.07	.01	.06	1	60
L8600E 9200N	2	19	24	119	.2	29	10	360	2.96	15	5	ND	7	21	.6	3	4	43	.28	.049	23	19	.37	357	.01	4	1.52	.01	.07	1	30
L8600E 9150N	2	15	10	71	.1	17	8	161	2.57	7	5	ND	6	13	.2	2	2	31	.17	.019	32	12	.23	118	.01	4	.76	.01	.04	1	20
L8600E 9100N	2	32	26	111	.1	31	12	264	4.00	14	5	ND	15	11	.2	2	2	41	.05	.027	37	19	.42	265	.01	6	1.53	.01	.09	1	10
L8600E 9050N	1	9	15	52	.2	9	4	126	1.43	6	5	ND	2	22	.6	2	2	36	.38	.032	15	16	.24	203	.02	3	1.03	.01	.03	1	10
L8600E 9000N	1	14	25	72	.2	19	7	339	2.09	10	5	ND	2	47	.5	2	2	32	.99	.073	18	18	.35	333	.02	3	1.13	.01	.05	1	40
L8600E 8900N	1	20	17	89	.4	19	10	905	2.22	6	5	ND	2	30	1.1	2	2	32	.51	.090	18	19	.33	306	.01	3	1.29	.01	.05	1	80
L8600E 8850N	1	15	15	71	.2	18	7	270	2.01	3	5	ND	2	40	.2	2	2	30	.76	.063	19	17	.35	269	.01	4	1.16	.01	.05	1	50
L8600E 8800N	1	28	20	93	.3	23	13	777	2.88	7	5	ND	4	34	.2	2	3	31	.65	.069	20	17	.37	301	.01	3	1.28	.01	.06	1	40
L8600E 8750N	1	28	17	77	.5	21	10	1302	2.13	4	5	ND	1	80	.6	3	4	23	2.42	.098	11	12	.27	329	.01	3	1.21	.01	.06	1	50
L8600E 8700N	1	21	8	100	.3	18	9	580	2.07	5	5	ND	1	49	.8	2	3	26	.97	.078	14	15	.29	304	.01	4	1.15	.01	.05	1	40
L8600E 8650N	1	24	20	101	.4	23	11	946	2.59	7	5	ND	2	35	.6	2	2	32	.67	.078	16	19	.37	415	.01	3	1.53	.01	.08	1	40
L88+00E 103+50N	13	38	21	632	.7	93	11	263	2.95	19	5	ND	7	34	2.5	7	2	208	.31	.095	21	27	.67	838	.02	4	1.30	.01	.09	1	60
L88+00E 103+00N	56	20	14	996	.1	179	8	107	2.01	24	5	ND	7	14	1.2	6	2	518	.09	.055	28	46	.60	1024	.02	10	1.13	.01	.14	1	10
L88+00E 102+50N	4	8	10	420	.1	25	7	423	1.51	8	5	ND	2	18	1.5	2	2	165	.23	.037	15	23	.30	737	.02	2	1.35	.01	.08	1	5
L88+00E 102+00N	3	22	12	136	.3	30	6	159	2.18	11	5	ND	5	14	.6	2	3	65	.15	.086	18	20	.32	200	.02	2	.98	.01	.04	1	30
L88+00E 101+50N	4	10	8	84	.1	13	3	71	1.07	6	5	ND	1	7	1.1	2	2	86	.07	.037	20	13	.10	150	.03	3	.48	.01	.04	1	10
L88+00E 101+00N	3	22	16	112	.2	24	7	154	2.56	14	5	ND	9	10	.7	2	2	50	.14	.029	30	23	.30	267	.02	4	1.08	.01	.05	1	5
STANDARD C	19	58	41	131	7.0	72	32	1054	3.98	38	20	7	38	53	19.6	15	23	55	.52	.094	38	55	.90	181	.07	34	1.89	.06	.14	11	1400

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
L88+00E 100+50N	8	33	14	281	.6	53	16	6369	3.51	22	5	ND	1	116	5.5	5	3	46	2.32	.100	10	20	.42	1931	.01	9	1.07	.01	.06	1	80
L88+00E 99+50N	7	17	14	195	.3	26	4	261	2.00	15	5	ND	3	11	.6	3	3	132	.14	.051	18	22	.24	408	.02	2	.81	.01	.05	1	10
L88+00E 99+00N	7	15	6	180	.2	22	3	100	1.74	13	5	ND	1	16	.7	9	4	167	.21	.038	17	18	.14	344	.02	2	.71	.01	.04	1	10
L88+00E 98+50N	2	8	13	112	.5	17	4	150	2.38	10	6	ND	5	6	.2	2	3	41	.06	.038	17	23	.27	179	.02	4	1.43	.01	.03	1	20
L88+00E 98+00N	2	7	9	117	.1	15	4	119	2.10	7	5	ND	3	4	.4	2	4	47	.04	.049	15	18	.20	168	.02	2	1.10	.01	.03	1	5
L88+00E 97+50N	4	8	11	143	.4	16	3	89	1.78	12	5	ND	1	4	.6	2	2	102	.03	.053	16	18	.14	175	.03	2	.86	.01	.04	1	20
L88+00E 97+00N	3	20	13	229	.4	27	7	635	2.00	12	5	ND	1	50	2.8	2	2	57	1.08	.090	11	21	.46	496	.02	5	1.03	.01	.06	1	30
L88+00E 96+50N	2	8	16	125	.1	20	6	176	2.34	8	5	ND	4	13	1.3	2	2	35	.14	.024	15	22	.39	222	.02	2	1.18	.01	.04	1	5
L88+00E 96+00N	2	23	15	225	.7	22	5	251	1.50	8	12	ND	1	119	3.8	4	4	74	2.85	.059	7	17	.37	682	.01	5	.93	.01	.04	1	50
L88+00E 95+50N	3	11	9	132	.1	19	5	245	1.50	8	5	ND	2	13	.8	2	4	74	.18	.039	14	17	.26	357	.02	2	.81	.01	.04	1	20
L88+00E 95+00N	3	7	8	85	.6	12	2	72	1.36	6	5	ND	3	4	.2	2	5	108	.03	.069	17	19	.20	167	.02	3	.86	.01	.03	1	30
L88+00E 94+50N	3	9	11	71	.5	14	3	80	1.94	9	5	ND	3	4	.3	2	3	82	.03	.070	16	16	.16	146	.02	3	.88	.01	.04	1	20
L88+00E 94+00N	4	12	12	105	.3	21	4	106	2.12	10	5	ND	4	7	.2	2	2	85	.05	.089	16	23	.31	217	.02	2	1.02	.01	.04	1	20
L88+00E 93+50N	1	4	15	43	.2	8	2	72	1.65	3	5	ND	5	7	.2	2	4	45	.07	.023	19	18	.19	181	.04	2	1.08	.01	.03	1	10
L88+00E 93+00N	1	3	10	49	.3	5	2	49	.83	2	5	ND	1	8	.3	2	2	31	.09	.029	13	14	.17	203	.01	2	.79	.01	.03	1	20
L88+00E 92+50N	5	18	12	117	.2	23	4	144	1.71	6	5	ND	3	13	.2	2	3	69	.20	.032	13	27	.49	402	.02	2	1.27	.01	.11	1	10
L88+00E 92+00N	5	7	14	122	.2	15	3	102	2.21	7	5	ND	5	7	.2	2	4	90	.08	.026	18	25	.30	461	.03	2	1.48	.01	.04	1	10
L88+00E 91+50N	1	7	14	48	1.0	7	2	103	.83	2	5	ND	1	8	.8	2	2	33	.09	.045	13	17	.19	294	.02	2	1.17	.01	.04	1	30
L88+00E 91+00N	1	6	7	28	.3	4	1	64	.54	2	5	ND	1	14	1.0	2	2	13	.17	.043	7	8	.06	149	.01	2	.51	.02	.03	1	30
L88+00E 90+50N	1	14	13	67	.2	12	4	148	1.55	2	5	ND	1	31	.8	2	2	34	.52	.060	14	18	.25	328	.01	2	1.05	.01	.05	1	20
L88+00E 90+00N	1	16	17	94	.3	16	6	241	2.64	8	5	ND	1	28	.5	2	2	33	.48	.088	15	21	.34	277	.01	2	1.19	.01	.05	1	40
L88+00E 89+50N	2	22	20	109	.2	25	9	380	3.06	9	5	ND	4	20	.2	3	2	36	.26	.061	23	23	.43	325	.01	2	1.34	.01	.07	1	40
L88+00E 89+00N	1	9	11	46	.3	10	3	132	1.18	2	5	ND	1	12	.2	2	2	25	.14	.069	18	13	.17	196	.01	2	.90	.01	.07	1	30
L88+00E 88+50N	1	16	14	66	.3	17	6	167	1.75	6	5	ND	2	25	.2	2	2	29	.45	.034	18	14	.23	263	.01	2	.96	.01	.05	1	20
L88+00E 88+00N	1	7	12	51	.1	11	3	104	1.66	4	6	ND	4	8	.2	2	4	34	.08	.018	20	17	.24	123	.02	2	1.00	.01	.04	1	5
L88+00E 87+50N	2	17	13	73	.3	15	6	161	2.66	7	7	ND	3	5	.2	2	2	43	.03	.082	27	11	.16	64	.02	2	.65	.01	.03	1	5
L88+00E 87+00N	1	20	16	124	.4	21	11	1782	1.99	4	5	ND	2	63	4.7	3	2	23	1.37	.123	10	16	.32	355	.01	8	1.05	.01	.06	1	60
L88+00E 86+50N	1	17	12	110	.2	24	12	646	2.86	5	5	ND	7	24	.5	2	3	28	.34	.061	24	20	.44	248	.01	4	1.16	.01	.06	1	10
9000E 9950N	7	18	14	191	.3	25	4	185	3.16	16	6	ND	5	5	.3	4	2	155	.04	.124	21	22	.25	208	.02	2	1.26	.01	.05	1	5
9000E 9900N	10	21	22	280	.4	50	5	173	4.42	23	5	ND	6	8	.7	3	2	179	.04	.157	18	33	.32	394	.03	4	1.66	.01	.06	1	30
9000E 9850N	10	24	21	372	.4	42	5	280	4.17	19	5	ND	4	11	.9	4	4	206	.10	.172	17	37	.45	454	.03	3	1.65	.01	.08	1	20
9000E 9800N	6	10	15	118	.2	19	4	170	2.89	12	5	ND	3	6	.2	2	2	100	.05	.131	14	22	.24	217	.03	2	1.12	.01	.04	1	10
9000E 9750N	2	16	13	110	.3	22	5	150	2.65	6	5	ND	6	8	.3	2	2	42	.08	.049	19	23	.35	200	.02	2	1.22	.01	.05	1	20
9000E 9700N	3	15	14	171	.5	32	6	208	2.93	11	6	ND	7	12	.4	3	4	52	.13	.105	18	26	.38	191	.02	5	1.13	.01	.04	1	30
9000E 9650N	4	12	18	159	.2	23	7	236	4.56	13	5	ND	6	7	.3	3	2	59	.05	.063	17	30	.45	159	.03	3	1.49	.01	.06	1	20
9000E 9600N	2	4	14	119	.1	13	4	179	2.16	8	5	ND	5	8	1.7	2	2	31	.07	.021	19	23	.30	233	.03	2	1.16	.01	.04	1	30
STANDARD C	19	60	40	131	7.0	73	31	1053	3.97	40	16	7	38	53	18.6	15	21	55	.51	.100	37	60	.92	182	.07	35	1.89	.06	.14	11	1500

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
9000E 9550N	2	8	16	79	.5	16	5	150	2.39	8	5	ND	6	7	.3	2	2	34	.06	.032	18	25	.38	143	.03	6	1.42	.01	.05	1	80
9000E 9500N	3	10	26	106	.2	20	6	220	3.64	18	5	ND	7	6	.3	3	2	53	.03	.042	21	28	.33	118	.03	5	1.54	.01	.05	1	30
9000E 9450N	3	9	19	145	.9	20	8	358	2.85	10	5	ND	6	7	.3	3	2	68	.05	.083	18	26	.32	197	.04	6	1.74	.01	.05	1	20
9000E 9400N	3	11	18	138	.4	22	6	211	3.31	11	5	ND	6	6	.2	4	2	60	.04	.117	18	31	.36	138	.03	6	1.91	.01	.05	1	40
9000E 9350N	4	15	25	196	.9	29	8	280	2.94	12	5	ND	7	7	.2	6	2	75	.05	.128	19	39	.46	224	.02	5	2.79	.01	.05	2	50
9000E 9300N	2	7	15	93	.4	17	5	128	2.19	9	5	ND	6	7	.2	4	3	46	.05	.030	18	24	.34	187	.03	5	1.39	.01	.04	1	10
9000E 9250N	2	6	13	72	.3	17	4	116	2.38	7	5	ND	5	10	.2	2	3	39	.12	.061	21	27	.36	99	.04	6	1.46	.01	.04	1	20
9000E 9200N	3	5	22	129	.6	14	4	140	2.30	6	5	ND	6	6	.2	3	2	64	.04	.035	19	26	.32	189	.03	6	1.63	.01	.04	1	30
9000E 9150N	3	7	14	80	.3	15	4	149	2.18	7	5	ND	6	7	.2	2	2	42	.05	.029	20	25	.30	128	.03	5	1.34	.01	.04	1	30
9000E 9100N	2	7	18	106	.6	17	5	153	2.75	9	5	ND	6	6	.4	2	2	47	.04	.057	17	28	.33	128	.04	3	1.75	.01	.04	1	40
9000E 9050N	3	10	24	147	.5	19	5	185	3.43	10	6	ND	6	6	.4	3	2	67	.04	.083	18	30	.41	159	.03	4	1.83	.01	.05	1	50
9000E 9000N	2	11	18	143	1.1	21	6	227	2.67	9	5	ND	7	6	.2	2	2	44	.04	.075	17	31	.38	135	.05	4	2.07	.01	.05	1	40
9000E 8950N	1	6	11	117	.4	12	4	239	1.72	4	6	ND	4	10	.5	3	2	31	.09	.031	20	21	.33	151	.04	8	1.05	.01	.06	1	20
9000E 8900N	2	6	16	97	.8	13	4	137	2.29	8	10	ND	7	7	.2	5	2	44	.06	.043	19	26	.30	152	.03	7	1.86	.01	.04	2	40
9000E 8850N	2	12	21	109	.6	24	7	184	2.95	12	5	ND	7	7	.3	2	3	52	.05	.059	19	30	.43	158	.03	7	1.81	.01	.05	1	50
9000E 8800N	2	7	18	102	.5	14	7	411	2.16	8	5	ND	7	11	.5	4	2	47	.11	.036	21	24	.35	201	.02	7	1.45	.01	.06	1	20
9000E 8750N	2	7	19	77	.3	13	4	175	2.57	9	5	ND	6	7	.2	2	3	55	.04	.084	21	26	.28	126	.04	4	1.45	.01	.04	1	10
9000E 8700N	4	16	28	153	.6	28	6	184	3.10	13	5	ND	8	6	.2	3	2	62	.04	.099	19	33	.54	156	.03	3	1.94	.01	.06	1	40
9000E 8650N	3	15	20	149	1.1	32	8	228	2.97	14	5	ND	7	12	.4	3	2	47	.09	.084	20	33	.51	166	.03	3	2.21	.01	.06	1	30
9200E 10900N	9	29	35	389	.7	50	12	254	4.34	24	6	ND	8	17	.8	9	2	116	.11	.243	17	40	.56	405	.02	7	2.37	.01	.08	1	50
9200E 10850N	4	35	23	232	.4	48	11	203	2.56	54	5	ND	9	61	1.5	6	2	62	1.12	.079	24	24	.85	505	.02	5	1.08	.01	.06	1	40
9200E 10800N	4	37	28	216	.5	45	13	451	3.23	87	5	ND	9	119	1.4	5	4	54	2.22	.084	26	23	.77	627	.02	5	1.13	.01	.07	1	50
9200E 10750N	3	33	21	201	.5	39	11	363	3.06	129	5	ND	9	92	1.8	5	2	51	1.55	.089	20	23	.62	513	.02	7	.88	.01	.05	1	30
9200E 10700N	4	31	25	185	.5	37	10	405	2.50	62	6	ND	7	137	1.4	6	2	51	2.66	.083	15	19	.68	490	.02	7	.83	.01	.05	1	50
9200E 10650N	4	34	20	204	.4	42	12	658	3.01	150	5	ND	10	55	1.3	6	3	53	.69	.083	23	21	.62	549	.02	7	.96	.01	.06	1	40
9200E 10600N	3	33	25	211	.3	44	13	258	3.00	120	5	ND	9	46	1.4	3	3	56	.45	.084	26	21	.55	530	.01	4	1.09	.01	.06	1	40
9200E 10550N	3	17	15	137	.1	29	8	246	2.16	59	5	ND	8	38	1.2	4	2	48	.35	.084	25	21	.37	401	.02	3	.76	.01	.04	1	20
9200E 10450N	2	17	10	137	.2	27	6	160	2.03	31	5	ND	7	43	1.7	2	2	59	.49	.082	29	26	.35	505	.02	4	.67	.01	.04	1	40
9200E 10300N	6	10	20	190	.2	25	5	177	3.14	17	5	ND	5	14	.2	3	3	142	.11	.161	17	31	.42	222	.02	7	1.14	.01	.06	1	10
9200E 10250N	2	11	15	121	.3	26	5	126	1.89	9	5	ND	6	8	.5	2	2	54	.09	.033	19	25	.37	343	.02	5	1.41	.01	.04	1	20
9200E 10200N	6	19	29	233	.3	27	9	473	3.53	16	5	ND	5	12	.6	4	3	126	.10	.153	22	28	.41	300	.03	3	1.75	.01	.06	1	40
9200E 10150N	2	18	14	127	.1	24	7	242	1.91	9	5	ND	3	26	.6	2	2	52	.41	.060	16	22	.30	355	.01	2	.79	.01	.04	1	20
9200E 10100N	2	17	10	79	.1	23	6	124	1.68	5	5	ND	4	16	.3	2	2	34	.21	.040	16	18	.31	295	.01	2	.90	.01	.03	1	5
9200E 10050N	4	8	10	98	.1	15	3	78	1.27	15	5	ND	1	5	1.7	5	2	128	.04	.036	15	17	.14	112	.03	2	.56	.01	.03	1	5
9200E 9900N	3	5	12	124	.6	10	4	259	1.82	5	5	ND	4	7	1.1	2	2	56	.06	.022	16	20	.22	164	.04	4	1.15	.01	.04	1	20
9200E 9850N	4	9	21	163	.2	20	6	257	3.73	17	5	ND	5	8	.2	2	2	70	.06	.044	18	25	.34	177	.03	5	1.45	.01	.05	1	10
STANDARD C	19	61	40	131	7.1	72	31	1053	3.97	40	21	7	38	52	18.5	15	21	56	.51	.098	38	59	.91	182	.07	36	1.91	.06	.14	11	1500

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
9200E 9800N	1	23	15	112	.9	23	5	165	1.87	3	8	ND	3	223	4.1	2	2	31	3.15	.152	9	25	.29	1492	.02	4	1.17	.02	.05	1	30
9200E 9750N	2	13	11	138	.1	26	6	143	2.18	9	5	ND	6	24	.3	2	2	50	.28	.062	21	22	.42	309	.02	4	1.25	.01	.05	1	10
9200E 9700N	3	14	23	174	.5	29	7	261	3.55	14	5	ND	6	7	.3	2	2	66	.05	.153	16	32	.39	206	.02	6	2.07	.01	.05	1	30
9200E 9650N	2	12	21	121	.8	27	6	192	2.91	12	5	ND	5	7	.4	2	2	42	.04	.059	17	29	.39	160	.02	5	1.91	.01	.04	1	50
9200E 9600N	2	21	12	153	.2	29	6	282	1.91	9	5	ND	6	25	.7	2	2	41	.28	.079	21	18	.41	362	.02	6	.97	.01	.05	1	40
9200E 9550N	9	27	30	381	.1	40	12	781	3.42	19	5	ND	4	18	1.2	5	4	233	.17	.126	14	41	.61	430	.04	5	1.40	.01	.06	1	20
9200E 9500N	2	8	15	127	.2	18	4	155	2.25	9	5	ND	5	6	.7	2	2	59	.05	.047	20	22	.27	169	.03	2	1.34	.01	.03	1	20
9200E 9450N	2	7	15	139	.1	14	4	109	1.74	4	5	ND	5	8	1.0	2	3	51	.07	.028	16	20	.30	253	.03	3	1.17	.01	.04	1	10
9200E 9400N	3	11	15	131	.2	24	7	353	1.92	8	5	ND	5	11	.9	2	2	51	.11	.043	21	23	.30	267	.03	4	.97	.01	.04	1	10
9200E 9350N	2	10	18	96	1.1	17	5	166	3.06	9	5	ND	6	8	.3	2	2	45	.05	.138	18	31	.35	98	.03	2	1.92	.01	.04	1	50
9200E 9300N	2	6	13	81	.3	14	4	121	2.00	6	5	ND	5	6	.4	2	2	41	.05	.027	17	22	.29	176	.03	3	1.44	.01	.03	1	30
9200E 9250N	2	8	19	85	.3	15	5	148	2.06	6	5	ND	6	7	.2	2	2	41	.04	.028	20	24	.32	163	.04	2	1.47	.01	.04	1	20
9200E 9200N	3	5	14	121	.5	18	4	171	2.50	8	5	ND	5	8	.2	2	4	85	.07	.096	20	25	.36	109	.04	4	1.16	.01	.05	1	10
9200E 9150N	4	11	16	130	.3	26	4	130	2.54	10	5	ND	6	8	.3	2	2	54	.05	.056	20	26	.39	211	.02	3	1.47	.01	.05	1	30
9200E 9100N	3	11	23	183	.3	29	6	208	3.02	14	5	ND	6	7	.2	2	2	57	.05	.063	18	29	.43	149	.02	4	1.67	.01	.05	1	30
9200E 9050N	2	7	16	107	.7	14	4	180	2.38	7	5	ND	6	7	.4	2	2	48	.05	.038	20	28	.32	183	.04	6	1.72	.01	.04	1	40
9200E 9000N	3	20	24	163	.4	39	8	166	3.11	14	5	ND	7	6	.6	2	2	64	.04	.106	17	30	.56	232	.02	5	2.29	.01	.05	1	50
9200E 8950N	2	9	17	93	.2	22	6	200	2.81	11	5	ND	7	7	.2	2	3	47	.05	.089	18	27	.40	103	.03	5	1.39	.01	.05	1	20
9200E 8900N	2	5	13	119	.3	14	5	364	2.03	8	5	ND	5	9	.4	2	2	45	.08	.046	20	24	.33	128	.04	4	1.29	.01	.04	1	10
9200E 8850N	1	21	13	85	.1	26	5	122	1.75	7	5	ND	5	9	.2	2	2	27	.10	.057	18	18	.32	154	.02	3	1.04	.01	.03	1	20
9200E 8800N	3	13	25	176	.5	25	7	246	3.53	15	5	ND	7	7	.5	2	2	61	.06	.155	19	33	.54	141	.04	4	1.88	.01	.06	1	40
9200E 8750N	2	13	17	140	.4	21	14	779	2.74	9	5	ND	6	6	.2	2	2	53	.05	.085	18	31	.40	132	.02	4	1.77	.01	.05	1	30
9200E 8700N	3	13	23	149	1.8	29	7	225	2.85	11	5	ND	7	8	.2	2	2	90	.05	.062	21	34	.43	236	.04	6	2.02	.01	.05	1	60
9200E 8650N	2	12	21	155	.6	26	7	273	3.12	12	5	ND	7	8	.3	2	2	45	.05	.060	19	32	.46	167	.04	3	1.97	.01	.05	1	50
9400E 10900N	4	31	25	201	.4	42	10	261	2.70	120	5	ND	9	45	1.3	4	2	60	.44	.088	26	21	.51	654	.02	5	.96	.01	.05	1	40
9400E 10850N	4	34	28	248	.6	46	11	268	2.64	92	5	ND	9	43	2.1	7	5	65	.43	.087	25	21	.54	535	.01	9	1.08	.01	.06	1	50
9400E 10800N	2	29	21	178	.4	32	7	150	2.08	45	5	ND	7	78	1.3	4	3	57	1.27	.085	21	22	.54	540	.02	4	.81	.01	.05	1	40
9400E 10750N	4	33	22	203	.2	42	11	292	2.71	121	5	ND	9	46	1.5	4	4	64	.37	.093	28	20	.46	660	.02	4	.94	.01	.05	1	30
9400E 10700N	3	27	24	197	.2	37	10	214	2.41	111	5	ND	8	43	1.2	4	4	53	.37	.093	25	18	.43	578	.01	2	.89	.01	.05	1	30
9400E 10650N	3	32	21	223	.4	38	10	274	2.69	98	5	ND	7	59	1.8	5	2	64	.72	.100	24	22	.55	581	.02	4	.87	.01	.05	1	40
9400E 10600N	3	34	20	177	.4	37	12	404	3.14	180	5	ND	8	64	1.2	7	6	50	1.06	.078	18	23	.51	414	.01	6	.83	.01	.05	1	30
9400E 10550N	2	12	12	104	.1	19	6	200	1.87	39	5	ND	5	20	.8	2	3	43	.24	.071	23	18	.28	158	.02	3	.60	.01	.04	1	10
9400E 10500N	3	13	12	117	.1	22	6	182	1.81	32	5	ND	6	17	1.5	3	2	52	.18	.034	24	17	.28	202	.02	2	.64	.01	.03	1	20
9400E 10350N	2	24	17	117	.1	25	9	257	1.97	21	5	ND	4	40	1.5	2	2	32	.54	.073	19	18	.30	510	.01	4	.88	.01	.04	1	40
9400E 10300N	3	31	11	194	.1	40	7	295	2.10	13	5	ND	5	30	1.3	2	2	50	.37	.069	22	22	.40	641	.02	2	1.00	.01	.05	1	70
9400E 10250N	2	21	12	142	.1	29	6	194	2.19	14	5	ND	8	16	.9	2	2	43	.18	.068	32	23	.34	255	.02	3	.98	.01	.04	1	30
STANDARD C	19	62	40	131	7.0	73	31	1054	3.97	40	22	7	38	53	18.6	15	19	55	.52	.094	36	60	.89	181	.07	36	1.88	.06	.14	13	1400

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
9400E 10200N	11	24	24	331	.2	44	5	151	3.91	20	6	ND	6	11	.5	5	2	147	.07	.071	23	24	.37	305	.02	4	1.47	.01	.07	1	60
9400E 10150N	5	20	23	228	.2	35	9	299	2.74	39	5	ND	5	24	.2	4	2	83	.17	.069	26	27	.50	537	.01	6	1.62	.01	.08	1	50
9400E 10100N	3	13	7	112	.1	18	6	241	1.77	9	5	ND	5	10	.4	2	2	41	.10	.037	19	18	.27	179	.02	4	.76	.01	.04	1	10
9400E 10050N	4	8	13	182	.3	18	5	282	2.92	11	6	ND	6	9	3.6	2	2	118	.07	.052	21	24	.35	349	.04	6	1.11	.01	.06	1	70
9400E 9950N	2	9	14	97	.4	23	7	163	2.80	8	6	ND	6	6	.2	2	2	35	.05	.036	18	30	.38	170	.03	5	1.77	.01	.04	1	20
9400E 9900N	4	8	10	145	.3	16	4	171	3.19	15	5	ND	5	6	.2	2	2	98	.04	.107	18	24	.27	148	.04	2	1.26	.01	.04	1	30
9400E 9850N	2	12	14	96	.1	21	4	115	1.77	10	5	ND	5	9	.2	2	2	34	.10	.064	16	17	.28	138	.01	4	.91	.01	.04	1	20
9400E 9800N	4	10	17	169	.4	17	5	189	2.86	11	6	ND	6	6	.3	2	2	79	.04	.070	21	22	.26	178	.04	4	1.35	.01	.04	1	40
9400E 9750N	2	16	14	166	.5	35	7	155	2.46	11	5	ND	6	8	.3	2	2	40	.07	.050	17	28	.39	204	.03	3	1.91	.01	.04	1	60
9400E 9700N	3	10	19	187	.2	16	4	131	2.88	12	10	ND	3	7	.9	2	3	72	.06	.146	15	22	.41	177	.03	3	1.48	.01	.05	1	30
9400E 9650N	6	11	11	172	.4	20	4	127	2.23	10	9	ND	4	6	.2	2	2	118	.05	.067	19	21	.26	188	.03	4	.90	.01	.05	1	20
9400E 9600N	2	8	9	123	.4	17	5	131	2.46	6	7	ND	5	7	.7	2	2	55	.05	.042	15	23	.26	189	.03	5	1.44	.01	.04	1	80
9400E 9550N	2	8	16	129	.7	19	6	210	2.85	9	6	ND	6	7	.2	2	2	40	.06	.036	18	30	.42	184	.03	6	1.78	.01	.05	1	60
9400E 9500N	4	11	12	176	.2	21	5	215	2.84	13	8	ND	5	6	.2	2	4	80	.05	.109	19	26	.36	156	.02	6	1.33	.01	.06	1	20
9400E 9450N	2	13	13	124	.4	29	7	177	2.33	12	10	ND	7	8	.2	2	2	35	.07	.067	20	27	.47	111	.02	8	1.45	.01	.06	1	30
9400E 9400N	2	13	12	95	.1	25	7	192	2.21	9	7	ND	7	9	.2	2	4	33	.09	.049	23	27	.42	146	.03	6	1.41	.01	.05	1	20
9400E 9350N	2	3	9	64	.1	7	2	95	1.17	3	5	ND	4	8	.2	2	2	48	.05	.030	19	15	.26	136	.03	3	.98	.01	.03	1	5
9400E 9300N	2	6	7	84	.4	13	4	123	1.90	5	7	ND	5	6	.2	2	2	39	.04	.030	17	23	.25	137	.03	3	1.25	.01	.03	1	10
9400E 9250N	2	10	14	149	.6	20	6	192	2.56	10	8	ND	6	7	.2	3	2	49	.05	.047	18	29	.38	201	.03	5	1.81	.01	.05	1	40
9400E 9200N	2	9	12	107	.1	17	6	205	2.31	6	6	ND	6	7	.2	2	2	41	.04	.039	20	26	.37	139	.03	2	1.53	.01	.05	1	20
9400E 9150N	4	12	9	142	.1	21	4	154	2.44	10	7	ND	3	5	.2	2	2	112	.03	.069	18	27	.45	140	.02	5	1.18	.01	.05	1	20
9400E 9100N	2	12	12	140	.5	28	8	213	2.62	12	5	ND	7	7	.2	2	2	41	.04	.055	19	31	.45	146	.03	4	1.90	.01	.05	1	40
9400E 9050N	2	9	9	109	.4	16	5	165	2.15	8	7	ND	5	6	.2	2	2	42	.04	.044	17	24	.33	146	.03	4	1.46	.01	.04	1	30
9400E 9000N	2	6	10	70	.1	11	4	120	1.39	5	8	ND	6	7	.2	2	2	33	.04	.033	22	18	.24	86	.03	5	1.00	.01	.04	1	20
9400E 8950N	4	17	29	184	.3	29	12	414	2.99	16	7	ND	6	9	.3	2	3	67	.07	.126	19	31	.47	231	.02	5	2.09	.01	.05	1	30
9400E 8900N	3	22	29	164	.6	31	8	271	2.79	17	8	ND	7	8	.2	2	2	63	.07	.116	20	29	.56	231	.02	5	1.67	.01	.06	1	50
9400E 8850N	1	10	18	127	.5	19	6	213	2.87	8	6	ND	5	7	.2	2	2	51	.05	.101	16	28	.32	160	.04	2	2.20	.01	.04	1	40
9400E 8800N	5	24	19	262	.2	50	10	454	2.95	20	5	ND	6	19	.8	3	2	78	.16	.070	22	32	.64	406	.02	2	1.93	.01	.08	1	20
9600E 10450N	3	12	10	90	.1	18	4	130	2.15	14	10	ND	6	8	.2	2	2	63	.06	.053	22	23	.28	120	.02	3	.90	.01	.04	1	10
9600E 10400N	4	20	12	132	.1	24	5	141	2.32	13	7	ND	6	13	.2	2	2	50	.12	.073	23	19	.29	172	.02	2	.87	.01	.04	1	5
9600E 10350N	4	8	14	132	.1	16	4	132	2.54	15	9	ND	5	8	2.0	2	5	100	.08	.065	21	21	.21	227	.05	2	1.00	.01	.05	1	10
9600E 10300N	2	9	7	75	.1	16	4	120	1.54	6	8	ND	5	11	.3	2	2	34	.10	.038	20	15	.29	169	.02	4	.95	.01	.05	1	20
9600E 10250N	5	30	13	244	.1	52	7	183	2.30	12	7	ND	6	17	.2	4	2	68	.15	.063	17	24	.40	443	.02	2	1.25	.01	.05	1	30
9600E 10200N	5	23	22	205	.1	53	9	191	3.07	48	9	ND	8	17	1.0	4	2	60	.12	.054	22	26	.43	345	.02	3	1.51	.01	.05	1	10
9600E 10150N	2	8	12	154	.2	19	7	223	2.99	12	8	ND	6	6	.8	2	2	47	.05	.061	19	24	.32	119	.02	2	1.31	.01	.05	1	20
9600E 10100N	1	5	11	70	.5	6	2	87	1.31	5	5	ND	5	8	.9	2	2	33	.07	.023	19	15	.14	191	.02	3	.95	.01	.03	1	10
STANDARD C	19	60	38	132	7.1	73	31	1053	3.97	40	17	7	37	53	18.5	15	18	55	.51	.099	37	59	.91	182	.07	35	1.88	.06	.14	11	1500

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
L9600E 10050N	3	11	14	91	.1	19	6	157	2.44	11	5	ND	5	6	.2	2	2	34	.06	.037	18	21	.34	123	.02	5	1.04	.01	.04	1	40
L9600E 10000N	2	15	10	94	.1	22	6	124	1.97	15	5	ND	5	13	.3	2	2	35	.15	.043	18	15	.32	214	.01	2	.90	.01	.04	1	30
L9600E 9950N	3	5	7	104	.1	13	5	161	2.10	11	5	ND	4	10	1.0	2	4	42	.12	.021	19	17	.27	216	.02	4	.89	.01	.06	1	10
L9600E 9900N	6	12	13	206	.1	32	6	120	2.63	15	5	ND	3	11	.8	2	2	168	.10	.048	18	40	.40	268	.03	5	1.20	.01	.05	1	20
L9600E 9850N	5	9	16	144	.3	24	7	159	3.15	12	5	ND	5	8	.2	2	4	76	.07	.061	18	24	.34	220	.02	4	1.28	.01	.05	1	30
L9600E 9800N	2	11	13	102	.1	25	7	184	2.26	9	5	ND	5	9	.2	2	2	36	.10	.059	20	24	.37	118	.03	2	1.48	.01	.04	1	20
L9600E 9750N	3	11	10	94	.1	14	5	181	2.63	11	5	ND	4	6	.2	2	2	80	.05	.054	19	20	.29	154	.03	4	1.10	.01	.04	1	10
L9600E 9700N	7	65	23	367	.3	52	13	423	2.95	22	5	ND	4	66	2.8	4	4	72	1.63	.079	17	20	.83	761	.02	2	1.06	.01	.07	1	70
L9600E 9650N	3	21	12	120	.1	28	7	205	1.67	7	5	ND	2	96	1.0	2	3	27	2.48	.063	13	14	.60	478	.02	4	.61	.01	.04	1	50
L9600E 9600N	2	27	12	152	.2	33	8	346	1.86	9	5	ND	3	52	1.5	2	2	40	1.27	.066	14	15	.52	430	.02	4	.67	.01	.05	1	40
L9600E 9550N	2	26	16	131	.1	29	10	391	2.21	9	5	ND	5	22	.8	2	2	41	.27	.072	18	18	.48	288	.02	4	.87	.01	.05	1	20
L9600E 9500N	2	20	12	102	.1	28	8	245	1.80	11	5	ND	4	23	1.1	2	2	25	.34	.065	17	16	.36	327	.02	3	.67	.01	.04	1	20
L9600E 9450N	2	20	9	124	.3	28	8	314	1.78	9	5	ND	4	73	1.4	2	3	26	1.92	.066	16	14	.45	243	.02	6	.62	.01	.05	1	30
L9600E 9400N	1	2	13	54	.1	8	2	82	1.28	5	5	ND	3	10	.2	2	2	29	.13	.032	18	14	.23	145	.02	5	.79	.01	.03	1	5
L9600E 9350N	3	9	14	99	.1	18	6	134	2.67	11	5	ND	5	9	.3	2	2	56	.10	.042	18	21	.32	264	.02	3	1.17	.01	.04	1	10
L9600E 9300N	2	10	19	135	.4	18	6	180	2.33	10	5	ND	6	7	.4	2	2	38	.06	.045	19	22	.32	169	.02	6	1.42	.01	.04	1	30
L9600E 9250N	2	6	16	83	.3	16	6	167	2.51	8	5	ND	6	7	.2	2	2	36	.05	.034	19	23	.34	129	.03	6	1.36	.01	.04	1	10
L9600E 9200N	3	12	12	150	.2	20	7	201	2.84	11	5	ND	6	6	1.1	2	2	67	.05	.070	19	27	.35	200	.03	4	1.72	.01	.05	1	20
L9600E 9150N	5	18	13	157	.1	26	7	384	2.90	13	5	ND	6	8	.6	2	7	82	.08	.093	22	25	.37	221	.02	4	1.19	.01	.06	1	10
L9600E 9100N	5	32	18	236	.3	41	11	311	2.92	17	5	ND	5	17	1.9	2	2	65	.26	.057	21	25	.43	485	.02	7	1.25	.01	.07	1	10
L9600E 9050N	3	19	15	204	.2	26	8	200	2.25	12	5	ND	2	26	1.2	2	2	55	.39	.057	14	19	.37	475	.01	2	1.08	.01	.05	1	20
L9600E 9000N	2	16	11	103	.2	15	4	155	1.70	9	5	ND	2	9	.2	2	2	36	.12	.041	13	13	.24	117	.02	5	.55	.01	.05	1	10
L9600E 8950N	2	13	11	85	.1	23	7	286	1.92	10	5	ND	4	22	.3	2	2	29	.33	.053	18	16	.35	249	.02	3	.74	.01	.04	1	20
L9600E 8900N	4	34	19	227	.4	37	9	386	2.10	13	5	ND	3	109	2.5	3	2	47	2.59	.098	16	16	.77	604	.01	4	.77	.01	.07	1	80
L9600E 8850N	2	20	14	130	.1	24	8	368	1.87	6	5	ND	2	15	.7	2	2	30	.23	.062	14	18	.34	181	.01	5	.65	.01	.05	1	20
L9600E 8800N	2	18	16	96	.1	23	7	198	1.83	9	5	ND	5	16	.2	2	3	31	.21	.054	14	18	.37	187	.02	5	.71	.01	.04	1	5
L9600E 8750N	1	18	13	97	.1	23	7	200	1.78	9	5	ND	2	16	.3	2	2	30	.21	.057	13	15	.37	192	.01	6	.73	.01	.04	1	5
9800E 9000N	2	42	31	167	.3	38	14	594	3.30	74	6	ND	10	53	1.1	4	6	31	.98	.068	28	15	.50	306	.01	4	.97	.01	.06	1	30
9800E 8950N	3	40	33	219	.5	43	12	390	3.03	63	7	ND	7	47	.9	4	7	58	.62	.065	22	18	.52	281	.01	4	1.06	.01	.08	1	50
9800E 8900N	2	18	23	103	.1	23	12	465	2.69	25	5	ND	7	26	.2	2	4	31	.35	.029	26	9	.12	118	.02	3	.48	.01	.05	1	10
9800E 8850N	2	16	18	91	.1	17	6	209	1.93	25	5	ND	3	31	.4	3	3	39	.48	.032	19	12	.26	225	.01	2	.80	.01	.06	1	20
9800E 8800N	4	20	19	143	.1	29	11	337	2.65	36	5	ND	6	23	.3	2	3	78	.18	.054	26	19	.42	386	.01	3	1.12	.01	.05	1	10
9800E 8750N	2	30	22	230	.3	34	11	979	2.42	24	5	ND	1	92	1.5	2	2	60	1.63	.061	12	14	.50	269	.01	5	.95	.01	.06	1	80
9800E 8700N	1	12	20	101	.1	14	6	371	1.70	11	10	ND	2	40	.7	2	7	21	.66	.036	11	8	.19	79	.01	2	.68	.02	.04	1	20
9800E 8650N	2	24	22	113	.6	18	6	178	2.03	24	5	ND	5	24	1.0	2	2	88	.22	.042	20	20	.32	399	.01	2	1.20	.01	.04	1	50
L99+00E 86+50N	2	23	23	96	.3	37	9	162	2.92	21	5	ND	8	9	.5	2	7	40	.09	.034	21	23	.45	145	.01	4	1.61	.01	.05	1	20
STANDARD C	18	57	38	131	6.8	73	32	1050	3.94	41	19	7	38	53	19.3	15	21	56	.51	.092	38	55	.89	182	.07	33	1.90	.06	.14	12	1300

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
L10000E 10850N	3	26	20	160	.1	37	8	364	2.19	47	5	ND	6	62	1.4	3	2	47	1.20	.082	21	16	.57	551	.02	2	.74	.01	.05	1	50
L10000E 10800N	3	30	10	213	.2	33	7	301	1.81	12	5	ND	1	92	1.8	3	2	54	1.79	.074	11	20	.35	589	.03	3	.86	.01	.04	1	80
L10000E 10750N	3	31	10	172	.3	36	7	277	1.88	13	5	ND	1	52	1.2	2	2	57	.97	.062	17	18	.35	748	.01	2	.96	.01	.05	1	60
L10000E 10700N	2	12	10	171	.2	28	7	166	2.38	13	5	ND	5	12	.8	3	3	40	.15	.097	17	21	.32	179	.02	2	1.32	.01	.04	1	20
L10000E 10650N	2	6	14	114	.3	22	7	157	2.42	10	5	ND	7	6	.7	2	7	36	.07	.040	18	23	.34	135	.03	2	1.48	.01	.04	1	20
L10000E 10600N	5	19	18	207	.1	32	5	132	2.61	18	5	ND	4	11	.8	3	2	77	.08	.064	16	20	.31	254	.03	2	1.06	.01	.04	1	30
L10000E 10550N	5	24	25	224	.2	40	9	241	3.12	50	5	ND	6	27	.6	4	2	97	.19	.124	20	23	.40	312	.02	2	1.06	.01	.05	1	20
L10000E 10500N	3	12	19	121	.1	23	6	192	2.98	30	7	ND	6	10	.7	2	2	51	.10	.069	19	24	.37	140	.04	2	1.19	.01	.05	1	20
L10000E 10450N	2	7	13	97	.1	16	5	169	2.91	23	5	ND	5	7	.2	2	4	43	.05	.040	17	20	.25	80	.03	2	1.20	.01	.04	1	10
L10000E 10400N	1	83	26	91	1.6	32	24	4201	6.70	519	5	ND	2	12	.4	28	23	33	.71	.043	16	15	.24	181	.01	5	1.30	.01	.03	1	70
L10000E 10350N	1	24	24	83	.3	26	11	596	3.77	86	5	ND	9	7	.2	6	2	28	.14	.029	31	17	.32	107	.01	2	1.48	.01	.05	1	30
L10000E 10300N	2	26	30	127	.1	27	10	295	3.08	57	5	ND	7	16	.5	2	2	38	.17	.036	29	17	.39	358	.01	2	1.39	.01	.08	1	20
L10000E 10250N	2	17	23	134	.1	24	7	180	2.35	42	5	ND	6	12	.5	3	2	43	.13	.032	23	18	.42	266	.02	3	1.22	.01	.07	1	30
L10000E 10200N	4	16	21	119	.1	21	5	153	2.07	52	5	ND	5	8	.4	3	5	209	.07	.048	20	23	.37	193	.02	2	1.04	.01	.09	1	20
L10000E 10150N	13	27	20	219	.3	45	6	130	3.13	56	5	ND	6	16	.2	4	2	94	.15	.079	18	23	.45	255	.02	3	1.33	.01	.06	1	40
L10000E 10100N	2	13	29	85	.1	22	7	149	2.54	55	5	ND	5	9	.2	2	5	30	.10	.026	24	19	.29	135	.01	3	1.06	.01	.04	1	20
L10000E 10050N	2	19	14	86	.1	26	8	199	3.07	60	5	ND	8	5	.2	2	2	32	.03	.029	37	17	.38	138	.01	2	1.19	.01	.06	1	10
L100+00E 99+50N	3	11	11	40	.1	7	3	49	3.98	548	5	ND	5	6	.2	2	9	41	.02	.079	24	12	.05	76	.03	3	.53	.01	.04	1	10
L100+00E 99+00N	2	10	9	63	.1	18	6	108	2.45	56	5	ND	8	6	.2	2	3	28	.04	.022	31	15	.32	127	.01	2	1.19	.01	.05	1	20
L100+00E 98+50N	1	9	19	65	.1	19	5	111	2.11	48	5	ND	6	7	.2	2	5	28	.07	.036	20	18	.31	119	.01	2	1.30	.01	.04	1	20
L100+00E 98+00N	1	13	10	74	.1	19	6	132	2.41	27	5	ND	7	8	.4	2	2	38	.08	.032	22	20	.35	162	.02	2	1.38	.01	.05	1	30
L100+00E 97+50N	2	12	14	60	.1	13	5	102	2.08	94	5	ND	3	5	.5	2	4	41	.04	.026	24	10	.09	80	.02	2	.61	.01	.03	1	10
L100+00E 97+00N	3	42	205	112	.1	24	9	150	5.20	160	5	ND	11	9	.2	8	4	33	.05	.057	24	22	.20	102	.01	4	1.28	.01	.06	1	20
L100+00E 96+50N	2	21	24	62	.1	16	7	158	2.89	199	5	ND	8	8	.6	3	3	27	.05	.032	24	11	.09	99	.01	5	.81	.01	.05	1	20
L100+00E 96+00N	2	11	12	103	.1	15	6	263	2.88	53	5	ND	6	8	.4	2	6	61	.07	.047	20	20	.27	167	.03	2	1.21	.01	.05	1	10
L100+00E 95+50N	2	42	1246	112	.7	22	7	549	2.48	154	5	ND	3	24	.7	9	3	43	.31	.061	16	14	.23	326	.01	2	1.07	.01	.06	1	40
L100+00E 95+00N	1	25	106	85	.1	25	10	453	2.62	140	5	ND	7	26	.8	4	7	18	.42	.040	26	9	.23	120	.01	2	.65	.01	.03	1	20
L100+00E 94+50N	2	35	28	99	.1	32	13	396	4.07	265	5	ND	12	10	.4	3	9	22	.10	.043	32	13	.27	117	.01	3	.92	.01	.06	1	10
L100+00E 94+00N	1	25	20	98	.1	21	12	483	2.58	132	5	ND	6	20	1.6	4	3	17	.25	.034	22	9	.17	88	.01	3	.56	.01	.04	1	10
L100+00E 93+50N	1	25	26	124	.1	24	9	476	2.62	101	5	ND	3	54	1.2	5	5	28	.96	.061	16	11	.27	197	.01	3	.82	.01	.07	1	40
L100+00E 93+00N	1	26	23	120	.1	25	11	775	2.42	100	5	ND	2	49	.9	3	6	30	.80	.072	15	12	.27	218	.01	2	.85	.01	.06	1	30
L100+00E 92+50N	2	23	22	92	.1	23	12	385	3.65	294	5	ND	5	22	.2	4	2	32	.27	.048	20	15	.27	191	.01	2	.87	.01	.04	1	40
L100+00E 92+00N	1	28	43	93	.4	29	13	1292	3.52	187	5	ND	4	60	.5	11	2	20	1.09	.063	20	10	.16	273	.01	4	.79	.01	.04	1	50
L100+00E 91+50N	2	19	13	91	.1	22	8	280	2.14	63	5	ND	5	30	.4	4	5	34	.44	.036	22	13	.26	255	.01	2	.82	.01	.04	1	20
L100+00E 91+00N	2	18	16	68	.1	17	8	138	2.00	35	5	ND	4	7	.2	2	2	39	.05	.029	25	10	.11	87	.02	3	.59	.01	.04	1	10
L100+00E 90+50N	3	14	17	74	.1	17	7	237	3.35	23	5	ND	6	7	.2	2	2	47	.04	.036	20	22	.27	92	.04	3	1.07	.01	.04	1	20
STANDARD C	19	60	37	131	6.9	73	32	1051	3.96	41	20	7	39	53	19.7	15	16	55	.52	.095	38	56	.89	180	.07	35	1.89	.06	.14	13	1600

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
L100+00E 90+00N	1	40	48	148	.8	41	15	1181	4.34	34	5	ND	8	8	.2	3	2	29	.04	.088	24	17	.27	241	.01	2	1.96	.01	.10	1	50
L100+00E 89+50N	1	7	15	43	.1	9	3	142	1.78	8	5	ND	5	6	.2	2	2	36	.04	.020	20	16	.21	81	.03	2	1.04	.01	.03	1	10
L100+00E 89+00N	1	11	21	69	.1	20	7	212	2.53	15	5	ND	5	18	.2	2	2	21	.16	.031	18	16	.26	94	.01	2	1.16	.01	.04	1	5
L100+00E 88+50N	2	11	24	81	.2	16	5	234	3.29	22	5	ND	4	6	.2	2	2	49	.04	.118	20	18	.24	71	.03	2	1.05	.01	.05	1	20
L100+00E 88+00N	1	16	43	69	.2	15	6	271	2.72	12	5	ND	6	10	.2	2	3	45	.06	.042	21	22	.30	184	.02	2	1.78	.01	.05	2	20
L100+00E 87+50N	1	9	38	79	.3	11	4	145	2.69	10	5	ND	7	5	.2	2	2	45	.03	.041	24	18	.20	49	.03	2	1.31	.01	.03	1	10
L100+00E 87+00N	1	8	18	68	.1	12	4	165	3.28	10	5	ND	6	7	.2	2	3	60	.05	.115	24	18	.20	59	.04	3	1.24	.01	.04	1	20
L100+00E 86+50N	2	9	12	76	.1	18	5	177	2.75	16	5	ND	4	9	.2	2	2	41	.07	.040	20	22	.36	77	.02	2	1.18	.01	.05	1	10
10200E 104+50N	1	16	18	151	.2	29	12	336	2.37	47	5	ND	6	11	.2	2	2	27	.09	.039	20	17	.29	189	.01	2	1.16	.01	.04	1	10
10200E 104+00N	7	11	16	146	.3	20	5	215	3.87	36	5	ND	5	5	.2	4	3	127	.03	.076	19	25	.37	144	.05	5	1.16	.01	.06	1	40
10200E 103+50N	3	9	14	148	.1	18	5	181	2.80	28	5	ND	5	6	.3	2	2	57	.04	.028	18	23	.30	103	.04	2	1.13	.01	.04	1	20
10200E 103+00N	2	9	13	69	.2	10	2	106	3.48	70	5	ND	5	5	.2	2	2	40	.03	.036	16	15	.16	78	.03	3	.94	.01	.02	1	30
10200E 102+50N	2	17	13	66	.2	9	3	89	8.21	156	5	ND	5	3	.2	5	2	69	.01	.135	20	19	.04	40	.08	4	.78	.01	.02	1	20
10200E 102+00N	2	11	21	81	.7	20	6	186	3.41	44	5	ND	5	6	.2	2	2	46	.03	.049	17	26	.30	115	.02	5	1.62	.01	.05	1	40
10200E 101+50N	2	9	17	97	.2	19	5	174	2.97	45	5	ND	6	6	.2	3	3	42	.04	.041	19	26	.32	104	.03	5	1.47	.01	.04	1	30
10200E 101+00N	1	8	20	81	.3	19	5	141	2.34	33	5	ND	6	6	.2	2	3	32	.05	.031	15	26	.31	108	.03	2	1.64	.01	.03	1	30
10200E 100+50N	1	7	18	58	.1	16	5	182	2.78	33	5	ND	6	6	.2	3	2	44	.04	.025	20	26	.32	113	.03	3	1.67	.01	.04	1	20
10200E 9950N	1	6	23	35	.1	11	3	94	2.46	38	5	ND	6	5	.2	2	2	43	.03	.035	17	25	.26	81	.04	2	1.81	.01	.03	1	30
10200E 9900N	2	46	38	81	2.3	24	5	138	3.44	79	5	ND	6	9	.2	5	2	41	.03	.064	16	28	.34	130	.02	2	1.58	.01	.04	1	40
10200E 9850N	2	16	24	77	.4	26	6	169	2.65	80	5	ND	8	6	.2	4	5	34	.03	.023	19	27	.37	140	.02	5	1.49	.01	.04	1	30
10200E 9800N	1	16	79	71	.4	17	6	134	3.22	310	5	ND	8	5	.2	5	5	32	.01	.033	25	20	.25	129	.01	4	1.34	.01	.06	1	30
10200E 9750N	1	3	31	24	.7	4	1	39	1.12	29	5	ND	4	5	.2	2	3	26	.04	.017	17	13	.10	57	.03	4	.91	.01	.02	1	10
10200E 9700N	2	14	60	89	7.7	21	5	154	3.23	457	5	ND	7	7	.2	61	19	39	.03	.090	18	24	.31	90	.02	2	1.44	.01	.07	2	50
10200E 9650N	2	16	121	114	1.5	26	6	158	2.99	145	5	ND	8	7	.2	7	3	35	.03	.061	19	26	.34	152	.02	5	1.65	.01	.05	1	30
10200E 9600N	1	14	33	64	.2	13	5	131	2.52	280	5	ND	9	8	.2	6	4	25	.03	.043	31	8	.09	68	.01	6	.64	.01	.05	1	20
10200E 9550N	1	24	44	130	.5	25	8	303	2.73	101	5	ND	4	47	.2	7	4	20	.92	.063	19	13	.28	161	.01	5	.82	.01	.05	1	40
L104+00E 104+50N	3	25	23	216	.1	32	6	210	2.55	28	5	ND	4	23	.3	3	2	65	.33	.039	15	23	.51	401	.01	2	1.16	.01	.05	1	30
L104+00E 104+00N	3	18	16	135	.2	26	36	1341	2.02	33	5	ND	1	8	.4	2	2	65	.09	.052	15	15	.11	139	.02	5	.92	.01	.04	1	30
L104+00E 103+50N	2	9	23	103	.3	15	5	191	3.01	72	5	ND	6	7	.2	4	2	49	.04	.061	17	23	.23	132	.02	4	1.40	.01	.04	1	20
L104+00E 103+00N	1	19	67	152	.7	22	8	639	2.81	199	5	ND	2	80	.7	10	10	17	1.41	.068	11	12	.28	183	.01	7	.80	.01	.05	1	40
L104+00E 102+50N	1	26	59	125	.7	30	8	392	3.00	171	5	ND	3	67	.2	11	15	20	1.11	.081	14	13	.32	174	.01	6	.88	.01	.05	1	50
L104+00E 102+00N	1	5	26	33	.1	6	2	70	2.02	848	5	ND	5	12	.2	4	25	23	.06	.035	27	9	.09	90	.01	4	.72	.01	.06	1	20
L104+00E 101+50N	2	6	12	55	.1	13	3	77	1.82	97	5	ND	5	7	.2	2	2	35	.05	.026	23	13	.22	95	.01	2	.76	.01	.03	1	10
L104+00E 101+00N	2	19	56	85	.3	15	6	155	4.05	170	5	ND	4	6	.2	16	5	30	.03	.043	20	14	.15	68	.02	2	.97	.01	.04	1	20
L104+00E 100+50N	2	16	19	59	.1	11	4	134	4.01	205	5	ND	6	6	.2	10	6	33	.05	.046	26	9	.05	48	.01	2	.64	.01	.03	1	5
L104+00E 99+50N	1	1	2	13	.1	1	1	12	.38	35	5	ND	6	2	.2	3	6	9	.01	.013	46	3	.01	23	.01	4	.35	.01	.04	1	5
L104+00E 99+00N	2	7	16	31	.3	4	2	44	7.01	213	5	ND	5	3	.2	8	11	36	.01	.051	21	10	.03	28	.06	2	.58	.01	.03	1	10
STANDARD C	19	59	44	131	7.0	73	31	1052	3.97	40	22	7	37	53	18.3	15	20	55	.51	.100	37	60	.91	181	.07	35	1.88	.06	.14	11	140

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
L104+00E 98+50N	1	3	53	30	.3	5	2	82	1.73	47	5	ND	4	6	.2	2	5	34	.05	.020	22	13	.14	46	.04	3	.90	.01	.03	2	2(
L104+00E 98+00N	1	14	364	218	.5	19	8	490	3.57	178	5	ND	6	15	.4	25	5	19	.22	.029	29	5	.09	139	.01	3	.84	.01	.06	1	1(
L104+00E 97+50N	1	4	9	23	.1	7	2	33	.94	16	5	ND	1	6	.3	2	3	18	.06	.016	24	2	.01	36	.01	2	.26	.01	.02	1	1(
L104+00E 97+00N	1	17	35	47	.2	27	8	96	3.42	142	5	ND	5	5	.2	15	2	5	.03	.024	54	1	.02	36	.01	2	.35	.01	.03	1	2(
L104+00E 96+50N	1	10	33	38	.1	9	3	83	1.79	41	5	ND	3	9	.2	7	2	10	.10	.024	38	1	.02	52	.01	2	.43	.01	.03	2	1(
L104+00E 96+00N	1	19	126	119	.9	23	14	3020	3.24	187	5	ND	1	119	.8	12	5	18	2.48	.068	10	8	.23	326	.01	6	1.00	.01	.08	1	4(
L104+00E 95+50N	1	18	27	57	.1	19	8	400	2.24	49	5	ND	1	106	.6	2	2	15	2.26	.067	12	9	.24	179	.01	2	.99	.02	.04	1	3(
P138515	1	108	24	91	.4	46	26	496	10.70	2218	6	ND	23	43	.9	21	21	21	.08	.091	16	18	.20	226	.01	3	1.15	.01	.17	1	1(
P142601	2	41	29	171	.4	37	14	586	3.52	243	5	ND	9	47	.4	7	4	36	.79	.047	23	15	.41	274	.01	5	.96	.01	.08	2	3(
P142602	2	30	14	148	.4	28	8	285	1.94	37	5	ND	3	55	1.5	3	2	60	.97	.070	18	16	.41	344	.01	4	.71	.01	.04	1	5(
P142603	2	14	20	110	.1	22	7	237	2.09	30	5	ND	3	16	.5	2	2	46	.18	.055	19	16	.34	167	.01	2	.82	.01	.04	1	1(
P142604	3	31	24	191	.1	38	11	289	2.78	61	5	ND	7	57	1.2	3	2	73	.65	.085	32	21	.52	755	.02	2	.91	.01	.05	1	4(
P142605	3	20	16	156	.1	31	8	268	2.12	38	5	ND	6	30	1.5	2	2	63	.30	.061	24	18	.42	463	.02	2	.78	.01	.05	1	3(
P142606	2	19	11	129	.1	29	8	275	1.98	16	5	ND	4	37	1.1	2	2	39	.60	.055	20	17	.49	470	.02	2	.90	.01	.05	1	4(
P142607	4	28	18	188	.3	37	10	391	2.49	57	5	ND	6	91	1.7	3	2	62	1.52	.083	22	19	.67	641	.02	3	.84	.01	.05	1	5(
P142608	1	24	30	156	.1	27	11	634	3.09	142	5	ND	7	43	1.1	5	4	34	.67	.046	26	14	.36	214	.01	3	1.10	.01	.07	1	4(
P142609	4	18	22	184	.1	30	8	256	2.21	57	5	ND	6	43	1.7	4	3	70	.32	.085	26	19	.43	640	.02	3	.87	.01	.05	1	3(
P142610	4	28	20	202	.2	37	9	308	2.32	63	5	ND	6	101	2.3	4	2	75	1.53	.088	24	19	.53	720	.02	5	.77	.01	.05	1	4(
P142611	3	26	19	178	.1	34	9	300	2.35	57	5	ND	5	124	1.5	4	2	52	2.46	.083	19	19	.69	591	.02	2	.80	.01	.05	1	5(
P142612	5	29	20	213	.4	39	9	360	2.25	57	5	ND	6	102	2.2	6	4	75	1.61	.088	22	19	.58	715	.02	2	.78	.01	.05	1	4(
P142613	3	21	17	163	.1	30	9	287	2.44	46	5	ND	6	35	1.1	2	2	64	.30	.088	26	20	.40	543	.02	2	.84	.01	.05	1	3(
P142614	3	24	24	165	.2	35	9	243	2.29	38	5	ND	6	33	1.0	4	3	62	.30	.073	24	20	.42	461	.02	3	.84	.01	.04	1	4(
P142615	3	22	22	114	.2	27	7	191	5.56	368	5	ND	4	29	.2	3	4	40	.38	.079	16	15	.36	295	.01	3	.82	.01	.05	1	5(
P142616	2	20	19	65	.2	17	5	117	3.85	121	5	ND	1	15	.2	2	3	39	.08	.072	18	16	.28	277	.01	3	.66	.01	.03	1	5(
P142617	2	19	34	56	.1	15	6	245	9.04	398	5	ND	10	8	.2	5	6	36	.03	.051	19	16	.23	145	.01	3	.87	.01	.05	1	3(
P142618	2	41	19	74	.5	33	14	1415	3.62	64	5	ND	2	70	.2	3	2	33	1.09	.091	16	14	.27	523	.01	3	1.40	.01	.06	1	6(
P142619	1	20	72	56	.2	10	7	304	6.82	699	6	ND	13	90	.2	12	35	11	.05	.067	14	4	.03	199	.01	4	.35	.02	.13	1	2(
P142620	2	7	17	22	.1	5	2	45	5.01	373	5	ND	5	7	.2	7	13	29	.02	.046	21	5	.03	64	.02	4	.49	.01	.04	2	1
P142621	2	38	17	107	.1	40	14	372	3.74	148	5	ND	11	8	.3	5	5	36	.04	.036	30	21	.43	159	.01	3	1.62	.01	.06	1	1
P142622	2	23	72	90	.1	28	7	161	3.15	302	5	ND	12	11	.2	7	3	28	.06	.030	36	18	.35	165	.01	3	1.25	.01	.06	1	1
P142623	1	13	16	47	.1	11	3	55	1.24	122	5	ND	1	9	.4	2	4	34	.06	.037	20	12	.17	162	.01	2	.73	.01	.05	1	1(
P142624	2	15	24	74	.1	19	6	118	2.61	289	5	ND	4	12	.2	4	6	36	.05	.039	27	16	.29	157	.01	2	1.08	.01	.06	1	1(
P142625	2	11	14	71	.1	18	5	157	2.92	169	5	ND	7	7	.2	2	4	43	.03	.051	18	26	.29	120	.02	2	1.63	.01	.04	1	1
P142626	2	7	10	57	.1	12	4	152	2.55	67	5	ND	4	7	.2	2	2	35	.06	.023	17	19	.30	104	.03	2	1.09	.01	.04	1	1
P142627	1	17	17	36	.9	11	2	32	1.31	29	5	ND	1	19	1.2	2	8	13	.16	.150	11	8	.08	505	.01	2	.94	.01	.05	2	10
P142628	1	8	8	44	.1	13	3	73	.83	12	5	ND	1	9	.6	5	2	15	.10	.042	8	10	.14	155	.01	2	.44	.01	.02	1	2
STANDARD C	18	57	40	131	6.8	72	31	1051	3.96	41	17	7	36	53	18.5	15	17	56	.51	.097	37	58	.89	180	.07	36	1.90	.06	.14	12	160

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppb
P142629	2	12	17	124	.4	20	6	170	3.02	44	5	ND	7	7	.5	2	2	42	.06	.050	18	24	.28	146	.03	3	1.72	.01	.05	1	40
P142630	3	14	15	123	.2	29	7	177	2.65	22	5	ND	7	8	.5	2	2	43	.06	.081	19	26	.38	200	.02	4	1.61	.01	.05	1	20
P142631	6	24	23	330	.8	46	11	324	3.19	43	5	ND	7	35	1.8	3	2	151	.33	.066	21	31	.52	858	.02	5	1.85	.01	.07	1	90
P142632	3	28	12	233	.3	45	9	219	2.40	14	5	ND	5	27	.6	2	2	53	.34	.055	24	23	.42	780	.01	3	1.17	.01	.05	1	70
P142633	4	13	9	169	.2	23	4	121	1.96	21	5	ND	4	11	.9	2	2	103	.11	.038	17	20	.27	191	.02	5	.79	.01	.04	1	10
P142634	7	51	19	360	.7	54	9	389	2.78	21	5	ND	3	58	4.4	4	2	108	.72	.086	17	25	.46	897	.02	5	1.21	.01	.06	1	120
P142635	1	12	7	145	.4	22	6	237	2.00	9	5	ND	6	32	1.3	2	2	33	.43	.075	20	21	.36	405	.02	4	.71	.01	.04	1	20
P142636	3	26	17	169	.4	36	8	322	2.15	56	5	ND	6	59	1.8	3	2	55	.88	.083	21	21	.55	664	.02	2	.75	.01	.05	1	30
P142637	4	31	20	201	.5	41	10	333	2.50	83	5	ND	9	54	2.8	4	2	69	.48	.100	26	21	.48	816	.02	6	.77	.01	.05	1	30
STANDARD C	18	59	41	132	7.2	71	31	1052	3.97	40	22	7	38	53	18.5	15	20	55	.51	.099	38	60	.90	181	.07	38	1.92	.06	.14	13	1300

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Hg ppb
R138501	3	6	4	7	.2	8	1	62	.52	82	5	ND	2	4	.3	2	6	1	.04	.002	4	8	.01	6	.01	6	.05	.01	.03	1	4	5
R138502	3	11	15	5	.1	7	1	33	1.36	538	5	ND	5	14	.3	2	16	1	.04	.007	12	7	.01	24	.01	4	.08	.01	.05	1	11	5
R138503	5	6	5	4	.1	9	1	32	.43	132	5	ND	1	8	.2	2	2	1	.03	.001	2	44	.01	7	.01	2	.02	.01	.01	1	12	5
R138504	2	23	100	1	.1	23	7	30	.55	3293	5	2	6	4	.5	80	1034	1	.02	.007	8	7	.01	7	.01	5	.09	.01	.05	1	16	20
R138505	3	3	2	1	.1	9	1	38	.32	183	5	ND	3	2	.3	2	14	1	.01	.003	15	8	.01	6	.01	4	.06	.01	.05	1	4	5
R138506	3	27	8	23	.1	21	3	202	1.50	139	5	ND	8	3	.2	2	5	3	.03	.012	9	11	.13	5	.01	2	.37	.01	.03	1	1	5
R138507	6	8	2	1	.1	12	2	38	1.78	95	5	ND	1	1	.2	3	4	1	.08	.001	2	49	.01	1	.01	2	.01	.01	.01	1	1	10
R138508	3	17	7	4	.1	14	1	158	.68	107	5	ND	6	7	.3	3	38	1	.31	.004	9	8	.07	9	.01	2	.15	.01	.07	1	3	5
R138509	4	7	3	5	.1	17	2	106	.58	10	5	ND	2	11	.4	2	2	1	.12	.032	3	10	.01	1	.01	2	.10	.01	.01	1	1	5
R138510	2	129	10	13	.1	9	4	78	5.05	899	5	ND	3	4	.2	3	10	1	.01	.008	4	2	.01	19	.01	2	.10	.01	.08	1	1	5
R138511	2	67	5	92	.1	13	6	212	19.81	484	8	ND	10	3	.5	7	4	4	.02	.049	7	18	.01	27	.01	3	.34	.01	.06	1	1	30
R138512	1	11	13	41	.2	7	2	2591	3.65	11	5	ND	1	44	.2	5	2	1	4.86	.007	2	11	1.61	4	.01	2	.02	.01	.02	1	1	10
R138513	3	75	6	8	.1	19	6	139	3.88	1728	5	ND	5	2	.2	5	2	1	.05	.007	4	7	.05	7	.01	2	.16	.01	.07	1	1	10
R138514	2	104	3	42	.1	59	13	763	4.59	48	5	ND	6	9	.2	6	2	1	.58	.014	3	6	.13	18	.01	2	.18	.01	.10	1	1	20
R138517	3	6	2	1	.1	14	5	1744	5.91	313	5	ND	2	22	.2	8	6	1	4.61	.017	2	29	1.88	10	.01	2	.08	.01	.05	1	12	5
R138518	1	13	6	3	.3	13	5	139	12.34	1372	5	ND	4	5	.8	8	11	2	.36	.035	3	10	.09	12	.01	8	.16	.01	.10	1	5	5
R138519	2	19	10	1	.4	39	18	54	17.02	7351	5	ND	1	1	.3	9	20	1	.01	.001	2	7	.01	4	.01	5	.04	.01	.03	1	8	5
R138520	2	14	3	1	.1	23	10	473	5.37	487	5	ND	8	12	.2	5	6	1	1.10	.017	2	8	.53	20	.01	2	.18	.01	.12	1	9	5
R138521	4	16	3	5	.2	23	8	738	3.81	316	5	ND	8	14	.2	6	11	1	.84	.018	4	33	.72	19	.01	6	.17	.01	.12	1	11	5
R138522	2	27	58	1	.1	39	16	1891	4.48	72	5	ND	12	9	.2	25	2	2	.26	.028	30	8	.75	22	.01	5	.25	.01	.14	1	2	10
R138523	3	63	125	7	.1	22	6	52	3.69	283	5	ND	3	3	.2	100	2	1	.03	.009	4	6	.01	8	.01	9	.07	.01	.05	1	5	5
R138524	2	3	2	140	.1	10	2	41	.17	5	5	ND	1	1259	2.1	3	2	44	18.34	.007	5	9	.35	1840	.01	2	.10	.01	.02	1	1	30
R138525	4	4	2	3	.1	15	3	94	2.04	219	5	ND	7	6	.2	2	4	2	.30	.016	6	26	.10	20	.01	2	.20	.01	.12	1	4	5
R142676	2	2	2	1	.1	6	1	27	.94	259	5	ND	5	1	.2	2	11	1	.02	.005	14	4	.01	16	.01	4	.16	.01	.10	1	1	5
R142677	3	4	2	1	.1	13	2	108	1.84	247	5	ND	3	2	.2	2	3	1	.36	.004	5	10	.13	15	.01	2	.11	.01	.08	1	1	5
R142678	3	5	9	4	.1	8	1	42	2.03	519	5	ND	2	22	.2	3	6	2	.25	.010	11	6	.01	40	.01	4	.08	.01	.05	1	5	5
STANDARD C/AU-R	19	60	38	133	7.2	73	31	1053	3.97	43	23	7	39	52	18.7	15	19	56	.51	.098	39	60	.91	182	.07	37	1.91	.06	.13	12	510	1600

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

Project Name & No: QUARTZ LK. - 347 | Geol: C H | Date rec'd OCT. 22 | LAB CODE: 9010-065

Material: 40 SOILS | Sheet: 1 of 2 | Date comp NOV. 02

Remarks: * Sample screened @ -35 MESH (0.5 mm).

o Organic, a Humus

Au - 10.0 g sample digested with aqua-regia and determined by A.A. D.L. 5 PPB

ICP - 0.2 g sample digested with 3 ml HCl:H2O:HNO3 (4:1:1) at 95 °C for 4 hours diluted to 11 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, La, Li are rarely dissolved completely from geological materials with this acid dissolution method.

T T No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
2	8800N-10050E	5	0.2	3.22	9	351	0.8	2	0.14	0.2	73	4	35	6	2.03	0.70	36	20	0.29	149	1	0.05	10	0.04	8	30	0.11	85	49
3	10100	5	0.2	4.14	17	592	1.3	2	0.08	0.2	78	7	26	15	2.89	1.08	39	34	0.42	164	2	0.07	22	0.05	11	29	0.08	109	82
4	10150	5	0.2	3.50	14	379	1.1	2	0.17	0.2	66	6	37	12	3.47	0.60	32	31	0.44	198	2	0.05	18	0.06	16	30	0.14	92	79
5	10200	5	0.2	3.88	6	350	1.2	2	0.15	0.2	85	7	24	10	2.54	1.01	43	31	0.26	378	1	0.15	12	0.06	10	43	0.11	65	98
6	8800N-10250E	5	0.2	3.75	17	396	1.1	2	0.14	0.2	78	7	31	11	3.07	0.84	39	35	0.36	196	1	0.06	17	0.05	31	31	0.12	93	73
7	8800N-10300E	5	0.4	4.14	9	375	1.2	2	0.12	0.2	85	5	18	8	1.69	1.20	43	16	0.18	116	1	0.17	10	0.05	2	35	0.10	78	50
8	10350	5	0.4	5.49	43	444	1.6	2	0.02	0.2	131	9	14	20	3.12	1.72	68	39	0.35	164	1	0.13	21	0.06	15	31	0.05	62	79
9	10400	5	0.2	6.41	49	556	1.9	2	0.02	0.2	113	9	15	19	3.62	2.03	57	46	0.42	187	1	0.12	24	0.07	15	35	0.06	80	85
10	10450	5	0.2	3.92	17	395	1.0	2	0.13	0.2	82	6	28	7	2.90	0.88	42	23	0.41	187	2	0.07	15	0.06	8	32	0.14	114	62
11	8800N-10500E	5	0.2	2.87	10	283	0.7	2	0.14	0.2	78	4	35	8	1.53	0.58	40	15	0.25	129	2	0.05	9	0.03	13	31	0.11	82	38
12	9000N-10050E	5	0.2	5.90	34	593	1.6	2	0.05	0.2	112	7	21	19	2.76	1.99	58	33	0.34	159	1	0.13	17	0.06	17	38	0.06	102	77
13	10100	5	0.2	5.08	16	491	1.3	2	0.07	0.2	100	5	18	11	2.03	1.52	52	26	0.27	124	1	0.16	13	0.04	12	36	0.07	85	57
14	10150	5	0.2	5.47	37	512	1.4	2	0.05	0.2	103	6	18	15	2.73	1.52	53	31	0.32	151	1	0.12	17	0.04	16	35	0.07	93	65
15	10200	5	0.2	5.24	18	507	1.4	2	0.06	0.2	80	7	18	18	3.32	1.52	42	36	0.35	176	1	0.11	19	0.06	17	35	0.07	90	82
16	9000N-10250E	5	0.4	2.92	10	311	0.7	2	0.16	0.2	66	4	33	6	2.95	0.58	33	23	0.32	203	1	0.06	11	0.05	13	31	0.14	91	83
17	9000N-10300E	5	0.2	5.67	15	618	1.6	2	0.04	0.2	92	7	15	18	3.48	1.75	48	66	0.32	162	1	0.15	21	0.05	17	40	0.07	86	79
18	10350	5	0.2	2.99	7	337	0.8	2	0.06	0.2	81	3	21	7	1.30	0.82	41	10	0.14	109	1	0.16	9	0.04	7	28	0.12	83	31
19	10400	5	0.2	6.24	33	576	1.9	2	0.38	0.4	112	12	13	22	2.95	2.06	56	48	0.41	435	1	0.12	26	0.06	26	55	0.05	70	99
20	10450	5	0.2	6.15	22	529	1.9	2	0.28	0.2	106	11	15	21	3.15	1.95	52	50	0.44	314	1	0.13	27	0.06	27	46	0.05	67	91
21	9000N-10500E	5	0.2	6.12	2	490	1.9	2	0.17	0.2	106	9	21	26	3.03	2.06	55	49	0.36	179	2	0.13	24	0.07	21	41	0.04	66	75
22	9200N-10050E	5	0.2	4.52	248	816	1.4	5	0.25	0.2	99	9	24	37	3.71	1.53	50	28	0.37	348	2	0.06	27	0.07	28	45	0.04	96	105
23	10100	5	0.4	5.06	35	954	1.6	2	0.67	0.4	96	8	23	22	2.60	1.59	45	44	0.40	407	2	0.14	24	0.06	22	70	0.06	121	141
24	10150	5	0.4	4.86	66	910	1.7	3	0.58	0.6	100	11	18	29	2.75	1.51	49	39	0.42	511	3	0.11	29	0.04	29	65	0.05	122	117
25	10200	5	0.8	5.27	41	902	1.8	3	1.15	1.4	87	13	18	34	2.78	1.55	40	90	0.46	1053	3	0.17	32	0.10	29	96	0.05	121	143
26	9200N-10250E	5	0.4	4.53	57	838	1.5	3	0.80	0.8	104	10	17	27	2.61	1.42	52	36	0.39	437	2	0.11	28	0.06	29	66	0.05	117	125
27	9200N-10300E	5	0.2	4.06	44	777	1.8	2	0.56	0.4	93	10	17	27	2.60	1.57	45	43	0.40	415	2	0.12	27	0.06	28	66	0.05	101	109
28	10350	5	0.2	3.87	45	599	1.2	2	0.32	0.2	87	8	21	16	2.47	1.12	43	34	0.44	385	2	0.08	24	0.07	23	41	0.07	94	99
29	10400	5	0.4	5.64	25	910	1.8	2	0.69	0.2	94	11	17	25	2.87	1.85	44	46	0.37	367	2	0.15	27	0.06	23	70	0.05	83	108
30	10450	5	0.2	5.56	20	884	1.7	2	0.59	0.2	97	11	17	20	2.63	1.70	48	47	0.36	500	2	0.14	22	0.06	28	63	0.05	79	95
31	9200N-10600E	5	0.4	4.71	20	498	1.6	2	0.49	0.2	108	11	21	24	2.62	1.51	52	39	0.34	307	2	0.11	25	0.07	27	53	0.04	87	74
32	9400N-10050E	5	0.2	4.54	[illegible]	522	1.4	2	0.32	0.2	124	10	21	18	2.49	1.48	62	32	0.31	342	1	0.16	19	0.06	23	48	0.05	79	81
33	10100	5	0.4	5.66	[illegible]	922	1.7	3	0.75	0.2	91	10	18	28	2.86	1.78	43	36	0.41	242	1	0.12	26	0.07	29	72	0.06	89	[illegible]
34	10150	5	0.4	5.32	102	[illegible]	1.6	4	0.48	0.2	98	10	17	26	2.84	1.79	48	31	0.40	285	2	0.11	25	0.07	27	57	0.06	90	[illegible]
[illegible]	10200	5	0.4	5.21	87	616	1.6	3	0.58	0.2	104	11	17	25	2.79	1.71	50	38	0.39	403	1	0.11	25	0.06	26	60	0.06	84	97
[illegible]	9400N-10250E	5	0.6	4.64	97	694	1.5	4	0.79	0.3	102	9	19	26	2.79	1.60	48	30	0.40	438	2	0.09	23	0.07	22	69	0.06	89	107

T.T. No.	S... E No	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	ppm	0-065 g. 2 of 2
37	9400N-10300E	5	0.2	4.26	56	697	1.2	2	0.43	0.2	98	7	19	18	2.28	1.36	46	26	0.38	288	2	0.10	17	0.07	16	48	0.07	94	94	
38	10350	5	0.2	3.96	44	612	1.2	3	0.72	0.2	91	9	22	18	2.33	1.14	43	25	0.38	341	2	0.08	20	0.06	22	64	0.07	85	90	
39	10400	5	0.4	4.17	47	730	1.4	3	0.81	0.3	77	9	24	25	2.82	1.28	34	25	0.38	615	2	0.11	22	0.09	25	73	0.07	88	92	
40	10450	5	0.2	3.80	33	685	1.2	3	0.45	0.3	91	9	27	17	1.99	1.11	41	24	0.38	1027	2	0.08	17	0.06	21	48	0.07	88	81	
41	9400N-10500E	5	0.2	4.38	64	688	1.4	3	0.39	0.2	109	11	24	25	2.67	1.36	54	27	0.42	384	2	0.08	23	0.08	21	52	0.08	94	89	

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

GEOCHEMICAL ANALYSIS CERTIFICATE

Dear Ik D.H.

Noranda Exploration Co. Ltd. PROJECT 9010-067 347 File # 90-5443 Page 1

P.O. Box 2380, 1050 Davie, Vancouver BC V6B 3T5

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Hg ppb
R 143301	1	9	20	10	.1	4	3	156	2.44	847	5	ND	7	5	.2	11	14	3	.01	.005	26	5	.01	74	.01	27	.34	.01	.17	1	23	5
R 143302	1	6	2	5	.3	11	7	121	4.48	655	5	ND	5	4	.2	7	14	4	.01	.003	19	5	.01	53	.01	40	.35	.01	.18	1	29	5
R 143303	1	10	2	6	.4	6	3	10	3.03	608	5	ND	7	5	.2	18	12	3	.01	.008	21	5	.01	60	.01	16	.28	.01	.17	1	10	5
R 143304	3	17	9	6	2.9	7	4	11	5.17	511	5	ND	6	4	.2	77	27	3	.01	.006	15	26	.01	48	.01	20	.24	.01	.15	1	30	30
R 143305	2	5	6	2	.1	4	1	13	.62	83	5	ND	6	2	.2	4	7	3	.01	.004	28	5	.01	48	.01	14	.30	.01	.18	1	47	5
R 143306	1	6	9	4	.2	1	2	27	1.60	165	6	ND	7	3	.2	11	8	3	.01	.004	25	2	.01	74	.01	22	.24	.01	.14	1	24	5
R 143307	2	9	6	6	.3	9	2	23	1.63	318	5	ND	7	4	.2	9	7	3	.01	.006	26	9	.01	57	.01	19	.26	.01	.15	2	33	10
R 143308	3	4	20	5	.2	6	3	14	1.53	124	5	ND	6	4	.2	6	13	3	.01	.003	23	26	.01	49	.01	26	.29	.01	.16	1	62	5
R 143309	1	3	12	4	.1	7	4	17	1.25	108	5	ND	6	4	.2	6	8	4	.01	.003	23	7	.01	50	.01	26	.35	.01	.18	1	32	5
R 143310	1	5	12	4	.2	4	2	49	1.63	121	5	ND	6	3	.2	7	14	3	.01	.004	22	4	.01	59	.01	13	.24	.01	.14	1	40	5
R 143311	2	3	2	2	.1	6	2	26	1.25	62	5	ND	6	4	.2	5	3	2	.01	.003	20	9	.01	132	.01	15	.26	.01	.15	2	59	5
R 143312	3	3	2	5	.1	7	1	17	.99	56	5	ND	9	2	.2	4	5	3	.01	.004	33	27	.01	75	.01	23	.29	.01	.15	1	21	10
R 143313	2	6	21	3	.4	6	3	10	3.68	213	6	ND	10	2	.2	17	11	5	.01	.005	38	5	.01	39	.01	23	.28	.01	.17	1	100	30
R 143314	1	3	3	2	.4	1	1	25	.56	1677	5	ND	4	2	.2	10	12	2	.01	.003	30	3	.01	25	.01	8	.24	.01	.14	1	240	5
R 143315	4	4	107	3	.9	13	1	24	.78	774	5	ND	4	2	.2	26	9	1	.01	.002	24	14	.01	28	.01	8	.19	.01	.12	3	260	30
R 143316	6	6	11	1	.5	11	1	19	.42	861	5	ND	5	2	.2	7	9	2	.01	.003	31	52	.01	28	.01	6	.24	.01	.14	1	130	10
R 143317	2	3	6	1	.3	6	1	13	.45	834	8	ND	4	2	.2	8	8	3	.01	.002	25	9	.01	47	.01	9	.31	.01	.18	1	69	5
R 143318	1	6	2	2	.3	2	1	43	.73	1069	5	ND	3	1	.2	5	11	1	.01	.003	14	3	.01	23	.01	6	.17	.01	.11	1	100	10
R 143319	2	3	4	1	.1	4	1	7	.25	232	6	ND	5	2	.2	4	6	3	.01	.004	33	7	.01	37	.01	13	.33	.01	.20	2	40	5
R 143320	3	3	11	1	.1	4	1	7	.47	65	7	ND	5	2	.2	3	7	3	.01	.003	35	27	.01	37	.01	7	.31	.01	.20	1	39	5
R 143321	3	6	10	2	.2	6	1	20	1.12	374	5	ND	4	5	.2	4	5	3	.01	.004	20	8	.01	77	.01	10	.22	.01	.15	1	42	5
R 143322	1	4	16	3	.1	1	2	31	2.88	570	5	ND	5	5	.2	5	5	5	.01	.007	20	3	.01	53	.01	11	.18	.01	.11	1	59	5
R 143323	2	7	10	4	.1	4	4	23	2.70	301	5	ND	9	3	.2	5	23	5	.01	.015	33	6	.01	33	.01	17	.28	.01	.15	2	12	5
R 143324	3	8	11	6	.1	8	3	43	2.39	321	5	ND	10	2	.2	4	22	4	.01	.017	32	24	.01	31	.01	27	.24	.01	.13	1	100	5
R 143325	3	11	13	17	.2	21	18	482	6.17	563	13	ND	15	2	.2	3	31	6	.01	.038	30	6	.01	38	.01	8	.38	.01	.15	1	44	5
R 143326	1	8	3	10	.1	7	4	478	1.99	221	5	ND	5	5	.2	2	8	5	.45	.019	19	4	.02	80	.01	12	.31	.01	.14	1	13	40
R 143327	3	5	10	3	.1	7	1	25	.86	304	5	ND	5	5	.2	2	11	4	.01	.006	22	10	.01	48	.01	11	.22	.01	.14	2	14	5
R 143328	4	4	20	9	.3	12	3	54	1.92	719	5	ND	8	9	.2	6	11	5	.01	.019	17	38	.01	43	.01	13	.27	.01	.15	1	10	30
R 143329	2	5	2	11	.1	8	1	34	.76	130	5	ND	7	3	.2	3	2	3	.01	.018	19	8	.01	27	.01	11	.31	.01	.13	1	14	5
R 143330	1	6	7	9	.1	7	4	167	1.62	320	5	ND	10	6	.2	3	9	4	.02	.025	24	4	.01	38	.01	8	.32	.01	.15	1	27	40
R 143331	2	7	6	29	.1	27	10	386	1.64	165	9	ND	14	5	.2	3	8	5	.06	.026	22	9	.02	53	.01	9	.49	.01	.22	3	19	5
R 143332	4	3	2	7	.1	10	3	70	1.21	216	5	ND	8	5	.2	3	6	4	.08	.016	19	33	.03	39	.01	8	.32	.01	.17	1	20	10
R 143333	2	5	735	5	1.4	7	1	50	.46	63	5	ND	8	3	.2	50	9	3	.01	.004	29	7	.01	42	.01	35	.25	.01	.12	1	29	30
R 143334	1	2	1715	4	3.0	1	1	33	.49	188	5	ND	8	3	.2	46	4	2	.01	.004	29	3	.01	36	.01	32	.21	.01	.09	1	45	20
R 143335	3	4	4406	12	3.3	5	1	43	.70	76	6	ND	7	4	.2	99	18	4	.01	.005	23	9	.01	60	.01	25	.28	.01	.14	2	28	30
R 143336	4	2	486	1	1.3	5	1	13	.80	34	5	ND	4	3	.2	30	9	3	.01	.004	39	34	.01	114	.01	18	.22	.01	.12	1	42	20
STANDARD C/AU-R	19	61	40	134	7.4	73	32	1057	3.98	41	23	7	36	56	19.3	15	17	57	.44	.093	39	60	.90	183	.07	35	1.90	.06	.14	13	520	1500

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: TRENCH AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: OCT 22 1990 DATE REPORT MAILED: Oct 25/90. SIGNED BY..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Hg ppb
R 143337	2	12	304	18	.4	3	1	24	.73	445	5	ND	6	2	.2	22	13	3	.01	.002	30	7	.01	96	.01	17	.31	.01	.18	1	47	10
R 143338	1	12	174	25	.2	5	1	90	.77	64	5	ND	4	2	.2	20	10	2	.01	.004	19	6	.01	52	.01	16	.22	.01	.12	1	19	30
R 143339	3	24	313	31	.7	8	4	115	1.95	182	5	ND	6	4	.2	33	26	4	.01	.014	21	7	.01	96	.01	17	.27	.01	.14	1	78	30
R 143340	2	6	208	22	.1	10	5	95	1.94	222	5	ND	8	6	.2	14	20	4	.01	.014	19	6	.01	48	.01	8	.32	.01	.17	1	39	5
R 143341	2	6	175	17	.1	4	3	91	1.08	136	5	ND	8	10	.2	10	17	4	.01	.010	21	5	.01	40	.01	5	.25	.01	.14	1	34	5
R 143342	2	15	296	43	.4	16	9	569	4.77	358	5	ND	6	11	.2	16	18	12	.34	.039	18	7	.08	88	.01	11	.41	.02	.14	1	65	5
R 143343	3	24	93	82	.1	48	24	2287	5.96	561	5	ND	12	11	.3	6	14	7	.37	.067	22	9	.06	92	.01	8	.54	.01	.19	1	77	10
R 143344	5	21	56	27	.1	43	14	1275	3.91	262	5	ND	9	21	.2	5	11	7	2.25	.054	13	6	.21	59	.01	14	.48	.01	.22	1	75	5
R 143345	4	54	645	92	.3	72	32	2957	8.91	531	5	ND	18	4	1.6	22	29	9	.11	.066	23	8	.07	73	.01	2	.62	.01	.14	1	120	40
R 143346	3	64	176	121	.1	58	31	2140	10.67	1087	5	ND	25	12	1.1	11	32	11	.02	.094	21	8	.06	92	.01	2	.81	.01	.13	1	87	90
R 143347	4	58	115	64	.1	27	15	1088	11.78	1943	5	ND	16	5	.2	14	56	22	.01	.065	20	8	.03	100	.01	2	.65	.01	.11	1	120	40
R 143348	3	11	73	12	.5	7	2	94	.90	702	5	ND	7	5	.2	11	54	6	.01	.008	40	8	.02	73	.01	22	.35	.01	.19	7	380	30
R 143349	2	7	213	11	.2	7	2	103	.50	91	5	ND	4	4	.2	3	16	5	.01	.007	28	8	.03	62	.01	8	.39	.01	.19	1	37	5
R 143350	1	15	48	17	.1	16	10	380	1.50	207	5	ND	15	8	.2	5	11	5	.03	.024	26	4	.02	79	.01	6	.42	.01	.21	1	19	5
R 143351	2	7	123	7	.3	4	2	92	.84	204	5	ND	5	7	.2	6	7	4	.01	.006	25	7	.01	154	.01	19	.32	.01	.18	1	37	5
R 143352	2	7	53	4	.4	4	1	26	.65	149	5	ND	7	8	.2	5	10	5	.01	.004	29	8	.01	177	.01	12	.30	.01	.19	2	77	5
R 143353	1	7	44	7	.7	4	1	37	.36	214	5	ND	7	5	.2	17	19	5	.01	.006	35	7	.02	62	.01	12	.33	.01	.17	1	150	20
R 143354	2	17	1101	17	.6	7	2	44	1.50	899	5	ND	7	19	.2	47	33	5	.01	.016	12	5	.01	84	.01	8	.23	.01	.14	1	62	5
R 143355	2	8	249	5	.4	4	1	48	.74	244	5	ND	3	9	.2	6	10	2	.01	.004	12	7	.01	130	.01	12	.16	.01	.11	1	34	5
R 143356	2	3	108	4	.3	10	1	40	.52	181	5	ND	4	4	.2	6	6	3	.01	.003	17	8	.01	86	.01	9	.25	.01	.15	1	52	10
R 143357	2	51	76	19	1.3	9	4	160	2.14	708	5	ND	8	14	.2	37	11	6	.01	.023	15	9	.04	71	.01	8	.38	.01	.20	1	57	30
R 143358	2	269	25	51	.3	16	7	121	6.07	620	5	ND	6	8	.2	12	2	29	.03	.060	16	19	.20	98	.03	2	1.07	.01	.08	1	12	20
R 143359	1	17	114	9	.8	8	2	84	.94	322	5	ND	5	6	.2	13	8	4	.01	.007	20	7	.03	107	.01	11	.36	.01	.20	1	28	5
R 143360	2	8	1673	7	3.2	7	1	26	1.14	485	5	ND	6	9	.2	9	7	3	.01	.007	14	7	.01	41	.01	6	.20	.01	.17	1	4	5
R 143361	2	10	187	7	1.5	6	2	35	2.44	2041	5	ND	13	42	.2	24	46	4	.03	.093	12	5	.02	51	.01	7	.25	.01	.35	1	36	10
R 143362	1	15	23	6	.2	7	3	33	1.49	765	5	ND	11	11	.2	12	8	4	.02	.025	12	5	.01	32	.01	7	.22	.01	.15	1	16	5
R 143363	1	76	2	18	.1	15	4	1082	2.11	72	8	ND	6	4	.2	2	14	3	.30	.014	13	6	.04	81	.01	5	.31	.01	.13	1	8	10
R 143364	2	33	505	61	.1	29	12	1046	2.25	140	5	ND	17	6	.2	4	2	6	.08	.034	23	7	.04	97	.01	4	.46	.01	.17	1	16	5
R 143365	2	17	18	28	.2	19	6	1632	3.11	134	5	ND	9	16	.2	3	2	3	2.23	.026	11	7	.09	71	.01	5	.32	.01	.14	1	14	5
R 143366	1	103	14	73	.1	41	15	1079	2.66	133	5	ND	16	7	.2	9	2	6	.15	.027	22	6	.03	78	.01	17	.60	.01	.21	1	14	5
R 143367	1	84	2	53	.1	38	14	1006	3.62	124	5	ND	15	5	.2	9	2	6	.08	.019	20	9	.07	72	.01	13	.55	.01	.19	1	9	5
R 143368	2	58	4	33	.1	36	10	1067	3.26	186	5	ND	13	4	.2	11	3	4	.06	.018	19	7	.02	54	.01	8	.40	.01	.16	2	19	5
R 143369	2	94	2	51	.1	53	20	1559	4.43	257	5	ND	19	5	.2	13	5	5	.07	.021	20	7	.03	78	.01	9	.43	.01	.18	1	12	5
R 143370	2	6	7	10	.1	10	2	64	.56	74	5	ND	5	5	.2	2	7	3	.02	.003	24	6	.01	67	.01	6	.26	.01	.14	1	15	5
R 143371	2	29	6	25	.1	30	8	503	3.50	876	5	ND	16	10	.2	7	7	10	.11	.062	29	8	.02	77	.01	12	.70	.01	.16	1	23	10
R 143372	2	28	2	33	.1	22	5	160	2.34	588	5	ND	17	7	.2	7	12	8	.06	.044	26	8	.01	46	.01	10	.54	.01	.13	1	26	5
STANDARD C/AU-R	18	58	42	130	7.0	71	32	1056	3.98	43	19	7	36	53	19.1	15	19	55	.44	.097	37	60	.90	181	.07	34	1.89	.06	.14	11	510	1300

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Hg ppb
R 143373	2	26	4	62	.2	20	7	155	4.32	1030	5	ND	19	11	.2	13	8	11	.08	.068	30	8	.02	65	.01	5	.44	.01	.13	1	53	10
R 143374	1	9	14	32	.1	9	5	99	2.52	333	5	ND	12	7	.2	3	8	7	.03	.023	31	5	.02	62	.01	8	.36	.01	.14	1	26	5
R 143375	1	6	2	8	.1	6	2	61	1.06	698	5	ND	7	6	.2	2	10	2	.01	.005	21	5	.01	151	.01	8	.24	.01	.12	1	43	20
R 143376	2	8	5	13	.1	8	3	105	.91	180	5	ND	5	13	.2	2	2	4	.02	.008	12	9	.02	178	.01	5	.23	.01	.09	1	12	10
R 143377	2	8	5	18	.1	13	4	105	1.95	298	5	ND	8	14	.2	4	5	3	.02	.013	9	8	.01	242	.01	6	.24	.01	.10	1	6	5
R 143378	1	12	8	13	.1	12	4	185	1.73	505	5	ND	11	7	.2	5	7	5	.01	.017	23	6	.02	155	.01	2	.36	.01	.15	1	34	5
R 143379	1	10	6	14	.1	16	8	136	2.61	461	5	ND	15	6	.2	3	14	4	.02	.022	22	5	.01	99	.01	2	.36	.01	.16	1	36	5
R 143380	2	11	5	16	.2	17	8	210	2.44	667	5	ND	18	8	.2	3	10	6	.02	.027	25	8	.03	83	.01	4	.43	.01	.16	1	18	10
R 143381	1	6	6	7	.1	8	3	121	1.25	310	5	ND	14	14	.2	3	10	6	.01	.016	27	7	.01	70	.01	5	.33	.01	.17	1	18	5
R 143382	2	3	9	1	.1	6	1	26	.30	18	5	ND	4	2	.2	2	2	2	.01	.001	15	8	.01	32	.01	7	.16	.01	.10	1	6	10
R 143383	1	4	53	2	.1	2	1	31	.35	32	5	ND	4	5	.2	2	3	1	.01	.002	16	3	.01	66	.01	8	.15	.01	.08	1	6	40
R 143384	3	6	20	2	.1	11	1	22	.34	30	6	ND	4	5	.2	2	8	2	.01	.002	16	12	.01	66	.01	9	.18	.01	.10	3	8	5
R 143385	5	7	6	13	.1	12	3	77	1.28	232	5	ND	6	7	.2	2	3	6	.01	.009	17	46	.06	88	.01	6	.30	.01	.10	1	15	5
R 143386	1	19	7	24	.2	16	5	82	3.90	971	5	ND	9	11	.2	3	5	15	.03	.022	21	11	.14	99	.01	7	.52	.01	.11	1	10	10
R 143387	1	48	3	12	.3	29	11	858	2.47	143	9	ND	9	10	.2	13	2	4	1.17	.028	11	4	.04	52	.01	6	.35	.01	.15	1	19	5
R 143388	2	44	4	15	.1	28	9	938	2.15	97	13	ND	11	9	.2	7	5	4	1.11	.033	16	7	.03	53	.01	9	.40	.01	.18	2	8	5
R 143389	2	101	13	21	.2	29	13	1709	2.95	125	13	ND	10	12	.2	19	2	4	1.75	.026	12	22	.03	77	.01	14	.38	.01	.19	1	10	10
STANDARD C/AU-R	18	59	42	133	7.2	73	32	1056	3.98	44	24	7	36	55	19.1	15	16	57	.46	.100	38	61	.90	182	.07	33	1.90	.06	.14	13	520	1600