LOG NO: 23-01 RD.
ACTION:

FILE NO:

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL

ASSESSMENT REPORT

ON THE

NEWMAC AND NEWMAC EAST

GROUPS OF CLAIMS

N.T.S. 92N/10, 15E

CLINTON MINING DIVISION

Latitude 51°44'N Longitude 124°39'W

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,860

PART 1 OF 2

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T. Wong (Geophysicist)
Noranda Exploration Company, Ltd.
January, 1991

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DRAWINGS

I. INTRODUCTION

1. Location and Access

The Newmac property is located approximately 180 km WSW of Williams Lake, B.C. and about 23 km south of the town of Tatla Lake, B.C. in the Clinton Mining Division at latitude 51°44'N and longitude 124°39'W. The claims are accessible via Highway 20 from Williams Lake to Tatla Lake then southward down the West Branch Road to Bluff Lake. A 4 x 4 road beginning from the north end of Bluff Lake reaches the western claims although parts of this road have been washed out. Helicopter service is available from White Saddle Air Service (located at the south tip of Bluff Lake) and provides the best access to all parts of the property.

2. Topography and Physiography

The claim group is situated within the Niut Mountain Range which straddles the boundary between the Coast Mountains to the west and the Interior Plateau to the east. Steep and rugged terrain is encountered on the west and south sides of the property while rolling hills and drift covered plains exist to the north and east. Alpine conditions occur above 6500 ft. with vegetation consisting of grasses and mosses. At lower elevations pine forests occur with some thick alder growth present along creek valleys. Butler Creek and it's north & west flowing tributaries provide most of the drainage in this area.

3. Previous Work

Due to the lack of accessibility much of the work conducted in this area did not begin until the mid-1960's. Below is a brief synopsis of the recorded work performed from 1966 to present. Refer to Drawing #9 for location of the grids described below.

1966: A. Macdonald staked the St. Teresa claims after discovering a polymetallic (Pb-Zn-Ag-Au) quartz vein known now as the "Cow Trail" vein.

1972: Noranda Exploration Company, Limited staked the BU claims as a follow-up to anomalous copper values in stream sediments. Subsequent geological, geophysical and geochemical surveys were conducted over the upper portion of Butler Creek and near Butler Lake. These surveys outlined a 1100 m x 800 m (maximum) copper geochemical anomaly with coincident high I.P. chargeability responses. No further work was performed.

1984: Ryan Explorations staked the M.S.B. claims on Butler Creek based on anomalous copper/arsenic silt samples.

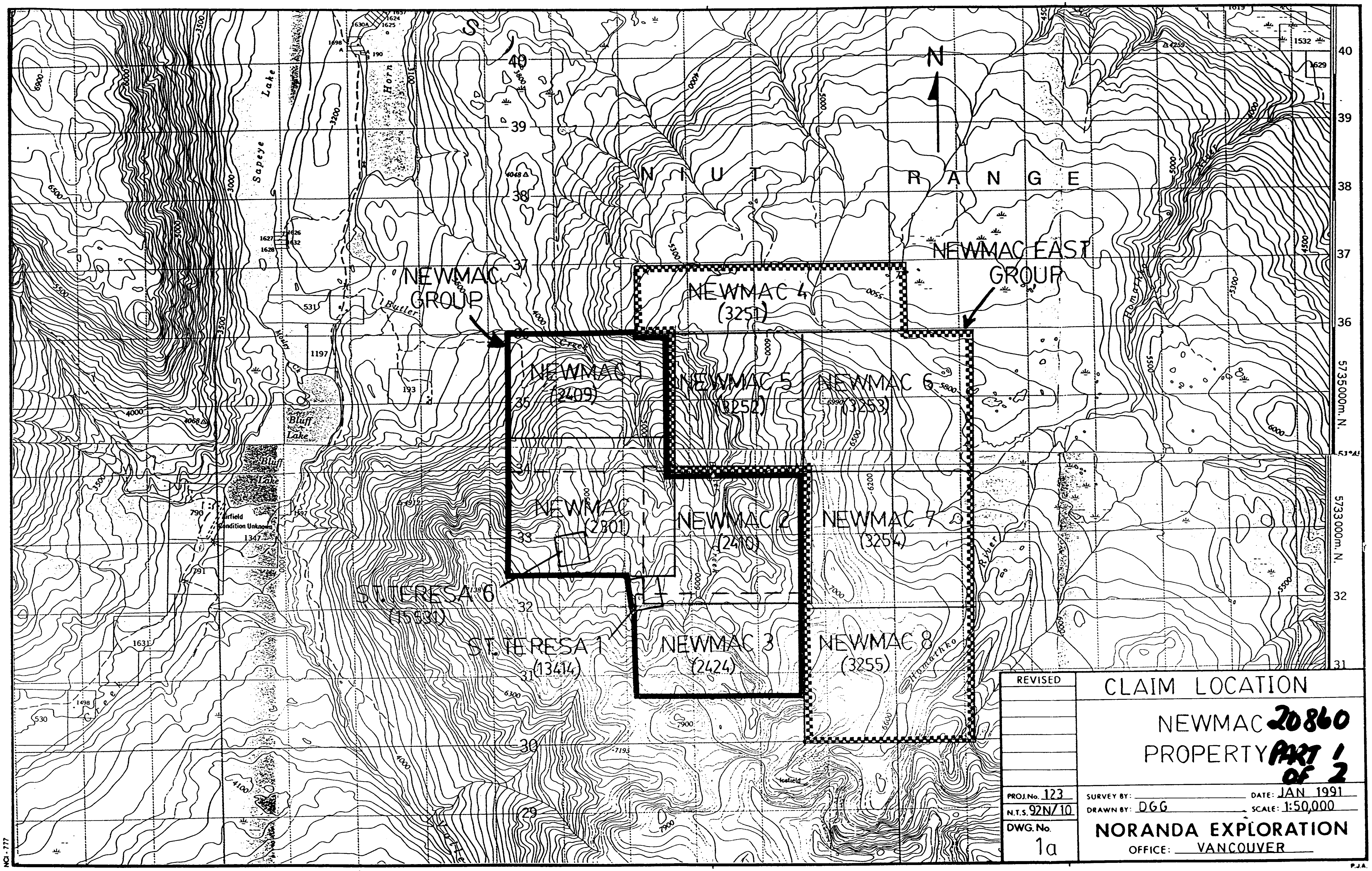
1984: Imperial Metals acquired an option on the St. Teresa claims and subsequently staked the Mac claims. Soil sampling, bulldozer trenching and a two hole diamond drilling programme (133.8 m) were completed on the Cow Trail vein. The option was dropped after low assay results were returned from the drill core.

1987: Canevex Resources Ltd. purchased the St. Teresa claims from A. Macdonald's estate and staked the Newmac claims. Jacqueline Gold Corporation then optioned the property and contracted Mincord Exploration Consultants to conduct a programme of geological mapping, soil sampling and backhoe trenching. The results of this programme revealed:

1) extensions of the Cow Trail vein;
2) a quartz-sulphide stockwork zone on the "A Grid";
3) gold-silver-copper-zinc anomalies on the "C Grid"; and
4) a 1300 m long copper-gold soil anomaly on the "B Grid".

1988: Mincord Exploration Consultants Ltd. conducted further soil sampling, geological mapping, an I.P. survey and a two hole diamond drilling programme (487.99 m) on the "B Grid". The best results returned from the drill programme revealed 157 m of 0.178% Cu and 0.34 gm/T Au including 17.98 m of 0.291% Cu and 0.323 gm/T Au.

1989-1990: Noranda Exploration optioned the property from Canevex Resources Ltd. and subsequently conducted a programme consisting of an airborne EM-Mag survey, additional claim staking, linecutting, soil sampling, mapping and I.P. and magnetometer surveys.


N
N I U T R A N G E
NEWMAC GROUP
NEWMAC EAST GROUP
NEWMAC 4 (3251)
NEWMAC 1 (2409)
NEWMAC 5 (3252)
NEWMAC 6 (3253)
NEWMAC (2301)
NEWMAC 2 (2410)
NEWMAC 7 (3254)
ST. TERESA 6 (15531)
ST. TERESA 1 (13414)
NEWMAC 3 (2424)
NEWMAC 8 (3255)
Sapeye Lake
Horn
Butler
Bluff Lake
Airfield Condition Unknown
Homathko River
Icefield
5735000m. N.
5733000m. N.
REVISED
CLAIM LOCATION
NEWMAC 20860
PROPERTY PART 1 OF 2
PROJ.No. 123
N.T.S. 92N/10
DWG.No. 1a
SURVEY BY:
DRAWN BY: DGG
DATE: JAN 1991
SCALE: 1:50,000
NORANDA EXPLORATION
OFFICE: VANCOUVER

4. Owner - Operator

At present 77 units of the Newmac property are owned by Canevex Resources Ltd. of 110-325 Howe Street, Vancouver, B.C. The remaining 92 units are owned by Noranda Exploration Company, Limited of 1050 Davie Street, Vancouver, B.C. Noranda is the sole operator of the property.

The following is a list of all claims comprising the Newmac property:

Claim Name	Record #	Anniv. Date	Group	Owner
Newmac	2301	June 18, 2000	Newmac	Canevex
Newmac 1	2409	Sept.22, 1991	"	Resources
Newmac 2	2410	Sept.22, 1991	"	Ltd.
Newmac 3	2424	Oct. 26, 2000	"	" "
St. Teresa 1	13414	July 13, 2000	"	" "
St. Teresa 6	15531	July 25, 2000	"	" "
Newmac 4	3251	Mar. 30, 1994	Newmac East	Noranda
Newmac 5	3252	Mar. 29, 1994	" "	Exploration
Newmac 6	3253	Mar. 29, 1994	" "	Co., Ltd.
Newmac 7	3254	Mar. 29, 1994	" "	" "
Newmac 8	3255	Mar. 29, 1994	" "	" "

5. Economic Potential

The surveys covered in this report were performed due to the belief that previous exploration had provided clues indicating the potential of a copper-gold porphyry deposit existing on the Newmac property. These clues consist of:

1) similar aged host and intrusive rocks to those found at the Fish Lake deposit;
2) a large copper-gold soil anomaly coincident with high I.P. chargeability responses;
3) auriferous quartz veins distal to the main porphyry zone, ie. the Cow Trail vein and "C Grid"; and
4) propylitically altered andesite tuffs and diorites grading 0.178% Cu and 0.34 gm/T Au over 157 m in one hole drilled in 1988.

II. SUMMARY OF WORK DONE

1. Airborne Survey

A combined helicopter-borne magnetic, electro-magnetic and VLF-E.M. survey was flown over the Newmac property between November 14 and November 21, 1989 by Aerodat Ltd. of Toronto, Ontario. A total of 435 line km of flight line were flown along azimuths of 090-270° at an interval of approximately 200 m.

2. Linecutting

A total of 89.125 line km of slashed and metrically chained grid was cut in order to establish control for geological, geochemical and geophysical surveys. The grid itself consists of two baselines, 4.6 km and 3.0 km long with winglines spaced at 100 m to 400 m apart ranging in length from 0.6 km to 5.2 km. Station intervals are 25 m apart.

3. Geological Survey

Geological mapping at a scale of 1:2,500 was conducted over the detailed grid from Lines 97N to 119N, Stations 93E to 107E which covered an area of approximately 3.08 square km. Regional mapping at a scale of 1:10,000 outside of the detailed grid covered an area of approximately 12.75 square km.

4. Geochemical Survey

The geochemical survey consisted of collecting soil and rock samples. A total number of 1203 soils and 158 rocks were collected and analyzed for 30 element I.C.P. plus geochem Au.

5. Geophysical Survey

A total of 30.3 km and 37.4 km of I.P. and magnetometer surveys respectively were completed on the Newmac property in order to aid in the mapping of rock types, mineralized zones and structures.

III. DETAILED TECHNICAL DATA

1. Airborne Survey

Due to the size of the Newmac property and the type of deposit being explored for, it was decided to fly a combined helicopter-borne magnetic, electro-magnetic, VLF-E.M. survey across the claim group. This was done in an effort to delineate:

1) regional magnetic highs and lows which might represent intrusive sources or large regional structures respectively, in conjunction with;
2) resistivity signatures that could reflect volcanic/intrusive contacts as well as conductive zones related to porphyry style mineralization.

The text below (Sections i through vi) has been extracted from the report compiled by George Podolsky, P.Eng. of Aerodat Ltd. for Noranda Exploration.

Refer to Drawings 2 through 8 and Appendices I & II for General Interpretative Considerations and the Airborne Anomaly List.

i) Introduction

This report describes an airborne geophysical survey carried out on behalf of Noranda Exploration Company, Limited ("Noranda") of Toronto, Ontario, by Aerodat Limited ("Aerodat") under a contract dated November 3, 1989.

Equipment operated included a four frequency electromagnetic system, a high sensitivity cesium vapour magnetometer, a two frequency VLF-E.M. system, a power line monitor, a video tracking camera, and an altimeter. Electromagnetic, magnetic, and altimeter data were recorded both in digital and analog form. Visual checks of position were recorded on the flight path navigation map by the operator during the flight and flight path was recovered from this and the video records.

This airborne survey, consisting of a block of ground in the Tatla Lake area (Niut Range, Pacific Ranges) of west-central British Columbia, was flown during the period of November 14 to 21, 1989. Six flight were required to complete the survey with flight lines oriented along azimuths of 090-270°, and flown at a nominal spacing of 200 metres. Coverage and data quality were generally considered to be within the specifications described in the contract.

The purpose of the survey was to record electromagnetic, magnetic and VLF-E.M. data over ground that is of interest to Noranda. A total of 435 line kilometres of the recorded data were compiled in map form and are presented as part of this report according to specifications outlined by Noranda.

ii) <u>Survey Area Location</u>

The survey area is centred at Latitude 51°44'N, Longitude 124°38'W (UTM grid reference CN875323 Zone 10U), approximately fifteen kilometres south of Tatla Lake in the Niut Range (Coast Mountain, Pacific Ranges) of west-central British Columbia. The town of Williams Lake lies about 250 kilometres to the east.

The survey area covers very rugged, mountainous terrain, particularly in the southeastern quarter; maximum relief exceeds 5,300 feet (1,640 metres) from the northwest to southeast corners. The northwestern corner of the area may be accessed by roads and trails off the all-weather gravel road through the community of Tatla Lake (British Columbia Road #20).

iii) <u>Aircraft</u>

Aerospatiale A-Star 350D helicopter, (C-GXYM), owned and operated by Ranger Helicopters Limited, was used for the survey. Installation of the geophysical and ancillary equipment was carried out by Aerodat. The survey aircraft was flown at a mean terrain clearance of 60 metres.

Electromagnetic System:

The electromagnetic system was an Aerodat 4-frequency system. Two vertical coaxial coil pairs were operated at 935 Hz and 4,600 Hz and two horizontal coplanar coil pairs at 4,175 Hz and 32 Hz. The transmitter-receiver separation was 7 metres. Inphase and quadrature signals were measured simultaneously for the 4 frequencies with a time constant of 0.1 seconds. The electromagnetic bird was towed 30 metres below the helicopter.

VLF-EM System

The VLF-EM System was a Herz Totem 2A. This instrument measured the total field and quadrature components of two selected transmitters, preferably oriented at a right angle to one another. The sensor was towed in a bird 12 metres below the helicopter. The transmitters monitored were NLK, Jim Creek, Washington, broadcasting at 24.8 Khz for the "Line" station and NAA, Cutler, Maine, broadcasting at 24.0 Khz for the "Ortho" station, depending on availability of transmission and suitability of transmitter location.

Magnetometer

The magnetometer employed was a Scintrex Model VIW-2321 H8 cesium, optically pumped magnetometer sensor. The sensitivity of this instrument was 0.1 nanoTeslas at a 0.1 second sampling rate. The sensor was towed in a bird 12 metres below the helicopter.

Magnetic Base Station

An IFG-2 proton precession magnetometer was operated at the base of operations to record diurnal variations of the earth's magnetic field. The clock of the base station was synchronized with that of the airborne system to facilitate later correlation.

Radar Altimeter

A King Air KRA-100 radar altimeter was used to record terrain clearance. The output from the instrument is a linear function of altitude.

Tracking Camera

A Panasonic video camera was used to record flight path on VHS video tape. The camera was operated in continuous mode and the fiducial numbers and time marks for cross reference to the analog and digital data were encoded on the video tape.

Analog Recorder

An RMS dot-matrix recorder was used to display the data during the survey. In addition to manual and time fiducials, the following data were recorded:

Channel	Input	Scale
CXI1	935 Hz Coaxial Inphase	2.5 ppm/mm
CXQ1	935 Hz Coaxial Quadrature	2.5 ppm/mm
CXI2	4600 Hz Coaxial Inphase	2.5 ppm/mm
CXQ2	4600 Hz Coaxial Quadrature	2.5 ppm/mm
CPI1	4175 Hz Coplanar Inphase	10 ppm/mm
CPQ1	4175 Hz Coplanar Quadrature	10 ppm/mm
CPI2	32 kHz Coplanar Inphase	20 ppm/mm
CPQ2	32 kHz Coplanar Quadrature	20 ppm/mm
PWRL	Power Line	60 Hz
VLT	VLF-EM Total Field, Line	2.5%/mm
VLQ	VLF-EM Quadrature, Line	2.5%/mm
VOT	VLF-EM Total Field, Ortho	2.5%/mm
VOQ	VLF-EM Quadrature, Ortho	2.5%/mm
RALT	Radar Altimeter	10 ft./mm
MAGF	Magnetometer, fine	2.5 nT/mm
MAGC	Magnetometer, coarse	25 nT/mm

Digital Recorder

A DGR-33 data system recorded the survey on magnetic tape. Information recorded was as follows:

Equipment	Recording Interval
EM System	0.1 seconds
VLF-EM	0.2 seconds
Magnetometer	0.1 seconds
Altimeter	0.5 seconds

iv) Data Presentation

Flight Path Map (Drawing #2)

The flight path map was derived from the video tracking record and the navigator's recognition points. It is estimated that the flight path is generally accurate to about 50 metres with respect to the topographic detail of the base map but accuracy may vary considerably due to the substantial variations in aircraft speed in mountainous terrain.

The flight path map showing all flight lines, is presented on a Cronaflex copy of the photomosaic base map, with navigator's manual fiducials for cross reference to both the analog and digital data.

Airborne Electromagnetic Survey Interpretation Map (Drawing #3)

The electromagnetic data were recorded digitally at a sample rate of 10 per second with a time constant of 0.1 seconds. A two stage digital filtering process was carried out to reject major sferic events and to reduce system noise.

Local sferic activity can produce sharp, large amplitude events that cannot be removed by conventional filtering procedures. Smoothing or stacking will reduce their amplitude but leave a broader residual response that can be confused with geological phenomena. To avoid this possibility, a computer algorithm searches out and rejects the major sferic events.

The signal to noise ratio was further enhanced by the application of a low pass digital filter. It has zero phase shift which prevents any lag or peak displacement from occurring, and it suppresses only variations with a wavelength less than about 0.25 seconds. This low effective time constant permits maximum profile shape resolution.

Following the filtering process, a base level correction was made. The correction applied is a linear function of time that ensures the corrected amplitude of the various inphase and quadrature components is zero when no conductive or permeable source is present. The filtered and levelled data were used in the interpretation of the electromagnetics. An interpretation map was prepared showing flight lines, fiducials, peak locations of anomalies and conductor axes. The data have been presented on a Cronaflex copy of the photomosaic base map.

Total Field Magnetic Contours (Drawing #4)

The aeromagnetic data were corrected for diurnal variations by adjustment with the recorded base station magnetic values. No correction for regional variation was applied. The corrected profile data were interpolated onto a regular grid at a 25 metre true scale interval using an Akima spline technique. The grid provided the basis for threading the presented contours at a 5 nanoTesla interval. The contoured aeromagnetic data have been presented on a copy of the photomosaic base map.

Vertical Magnetic Gradient Contours (Drawing #5)

The vertical magnetic gradient was calculated from the gridded total field magnetic data. Contoured at a 0.2 Nt/m interval, the gradient data were presented on a Cronaflex copy of the base map.

Apparent Resistivity Contours (Drawings #6 & 7)

The electromagnetic information was processed to yield a map of the apparent resistivity of the ground (Drawing #6). The approach taken in computing apparent resistivity was to assume a model of a 10 metre thick conductive layer (i.e. effectively a half space) over a resistive bedrock. The computer then generated, from nomograms for this model, the resistivity that would be consistent with the bird elevation and recorded amplitude for the 32,000 Hz coplanar frequency pair used (Drawing #7). The apparent resistivity profile data were interpolated onto a regular grid at a 25 metres true scale interval using an Akima spline technique. The contoured apparent resistivity data were presented on a Cronaflex copy of the base map with the flight path.

VLF-EM Total Field (Drawing #8)

The VLF-EM signals from NLK (Jim Creek, Washington) broadcasting at 24.8 kHz were compiled as contours in map form and presented on a Cronaflex overlay of the base map along with flight lines. The orthogonal VLF data was not utilized in the compilation as the line direction data set was complete. The orthogonal data remains valid, and may be processed at a later date. The data was recorded on the analog records and on digital tape.

v) Interpretation

Geology

The survey block is located within an area of metasedimentary, metavolcanic, and granitic rocks on the east side of the Coast Range of west-central to southwest British Columbia. No geologic data or geophysical data, detailed or regional, were supplied to Aerodat by Noranda and no discussions have been held with Noranda as to the type of mineralization being sought. The report therefore makes no attempt to speculate on the geology or the geologic setting of the areas surveyed.

Magnetics

The magnetic data from the high sensitivity cesium magnetometer provide virtually a continuous magnetic reading when recording at one-tenth second intervals. The system is also noise free for all practical purposes.

The sensitivity of 0.1 nanoTeslas (nT) allows for the mapping of very small inflections in the magnetic field, resulting in a contour map that is equal to or exceeds ground data in quality and accuracy. Both the fine and coarse magnetic traces were recorded on the analog charts.

The Total Field Magnetic map (Drawing #4) shows a series of north-south to north-northwesterly trending magnetic highs - predominantly in the eastern half of the area - that are interrupted by an east-northeasterly trending low through the southern third of the area. Maximum magnetic relief is almost 2,000 nT (Line 1330 @ 13:37:20 to Line 1101 @ 09:37:20). The magnetic highs themselves appear to consist of groupings of narrower, steeply dipping magnetic bodies (dikes or sills) and would more likely be representative of ultramafic intrusive rocks than more massive syenite stocks or more extensive basalts. The magnetic lows may be from more recent granitic stocks or plugs.

The primary structural trends, as inferred from the Total Field data (Drawing #4) and as shown on the Interpretation map (Drawing #3) are generally northeasterly, ranging from north-northeasterly to east-northeasterly. One northwesterly fault system appears to cut diagonally across almost the entire survey area and a possible north-south to north-northwesterly fault occurs in the east-central part of the block. These faults may have controlled or may otherwise be related to the intrusive activity.

These data, and more so from the gradient data, give the impression of a series of magnetic highs (to the east) curved around a central magnetic low. A possible northwesterly trending dike cuts the southwestern corner of the area.

Vertical Gradient Magnetics

The Vertical Gradient map (Drawing #5) may be regarded as a pseudolithologic map. It is believed to give a fairly good rendition of the outline of the underlying magnetic bodies generally inside of the "zero" contour.

The "banded" nature of the north-south to north-northwesterly magnetic highs is clearly portrayed. However, one must be aware of the tendency of computer generated derivative maps such as this to bias data in a direction orthogonal to the flight lines (i.e. north-south trends for east-west lines), particularly in areas of low magnetic relief and high topographic relief. A compilation of magnetic contours onto a topographic contour map may also assist in the expanding of the structural interpretation.

Electromagnetics

The electromagnetic data were first checked by a line-to-line examination of the plotted profiles in conjunction with the analog records. Record quality was generally good to excellent. Any minor levels of sferic noise were removed from the plotted traces by an appropriate smoothing filter. Geologic noise, in the form of surficial conductors, is present on the higher frequency responses and, to a minor extent, on the low frequency quadrature response.

Conductive anomalies, where believed to be present, were picked off the plotted profile traces of the multi-frequency responses using the vertical sheet conductor model as a guide; the negative inphase anomalies were picked off the 935 Hz coaxial channel. These selections were then checked with a proprietary computerized selection programme which can be adjusted for ambient and instrumental noise. Each conductor or group of conductors was evaluated on the bases of magnetic (and lithologic, where applicable) correlations apparent on the analog and profile data and from the topographic map, man-made or surficial features not obvious on the analog charts.

The anomalies that have been identified on the Interpretation map are all classed as possible bedrock conductors, more likely due to minor conductance from overburden than from sulphide/graphite mineralization or shearing. There is no apparent correlation of these zones with magnetic (i.e. lithologic) trends. Without any correlation to known mineralization, these possible conductors would not merit any attention in the field. They would be difficult to locate on the ground with standard electromagnetic techniques but should show up on resistivity or I.P. profile data.

Apparent Resistivity

The Apparent Resistivity maps were calculated from both the 32,000 Hz coplanar (Drawing #7) and the 4,600 coaxial (Drawing #6) channels. Whereas the 32 kHz channel has produced a map showing resistivities largely within the lower portion of the resistivity spectrum (i.e. 10 to 500 ohm-m), the 4,600 Hz channel gives resistivity values well up into the higher range of better than 2,000 ohm-m. In both cases, lower resistivities appear to correlate with the areas of lower elevation, that is, alluvium and detritus-filled valleys and stream cuts. If the target mineralization is a porphyry copper, it may be of benefit to compile the areas of resistivity lows with reference to geology and inferred structures.

VLF-EM Total Field

The VLF map (Drawing #8) shows a series of north-south trends across the width of the survey area. Minor variations in these trends and alignments of breaks in the trends may be indicative of structure, but the magnetic data is far more clear-cut and reliable in this regard. The writer is generally reluctant to rely on VLF data in mountainous terrain, the principal problem being one of sorting real bedrock trends from those due to topographic effects and surficial conductors. In this case, the topographic effects - i.e. the tendency for the VLF fields to follow the terrain - could be expected to quite severe.

vi) Recommendations

The lack of any obvious conductive targets and any information on geology or mineralization relative to the survey area precludes any recommendations for additional geophysical work. The possible electromagnetic conductors that have been shown on the Interpretation map might be detected with gradient array I.P. or resistivity profiles but follow-up with VLF is not recommended. The magnetic map probably exceeds ground magnetic data in overall quality and sensitivity and ground magnetics should not be necessary.

vii) Discussion

A review of the data obtained from this airborne survey reveals that the most pertinent information in regards to exploring for porphyry Cu-Au deposits is found using total field magnetics (Drawing #4) and apparent resistivity (Drawing #7). In this case two sets of apparent resistivity (coplanar & coaxial) have been provided. However, the information provided by coplanar resistivity is superior to that supplied by coaxial resistivity as the latter is only suitable for defining steeply dipping, thin bedrock conductors in resistive environments. Also, coplanar resistivity provides for more accurate & detailed information within the lower portion of the resistivity spectrum where disseminated Cu (Au) mineralization would likely be found.

Referring to Drawings 4 & 7 it is apparent that the survey area is underlain by high magnetic signatures surrounding a central magnetic low. A large magnetic high, independent of the other high magnetic signatures, measuring approximately 5.4 kms x 0.5-1.8 kms is coincident with a circular zone of high resistivity measuring 4.5 kms x 1.5-2.0 kms and is located in the north-central portion of the survey area extending across flight lines 1210 to 1450. This coincident high magnetic/high resistivity anomaly most likely outlines a roughly circular stock of quartz diorite and is best represented by the 57,400 gamma contour on Drawing #4 and the 1259 ohm·m contour on Drawing #7. It is also interesting to note that the intersection of two large NW-SE and NNE-SSW regional faults occurs at the southern tip of this coincident anomaly (see Drawing #3) & may have controlled the emplacement of the stock.

This high magnetic/high resistivity anomaly is also enveloped by a zone of lower resistivity (represented by contours $\leq$ 1000 ohm·m). Porphyry copper models suggest that within these zones of lower resistivity and/or along the transition between the high and low resistivity zones, sulfide enrichment can occur. In fact it is along one north-south trending, low resistivity/high resistivity transition zone that the copper-gold soil anomaly and the drill hole (Canevex, 1987-1988) which returned 157 m of 0.178% Cu, 0.323 gm/T Au are located. This zone can be seen on Drawing #7 extending from Line 119N to Line 101N parallel to the western baseline.

The idea of additional copper-gold mineralization occurring within the lower resistivity zones surrounding the coincident high magnetic/high resistivity anomaly led to the establishment of the grid configuration seen on Drawings 4 & 7 and to the other surveys discussed within the remainder of this report.

2. Geological Survey

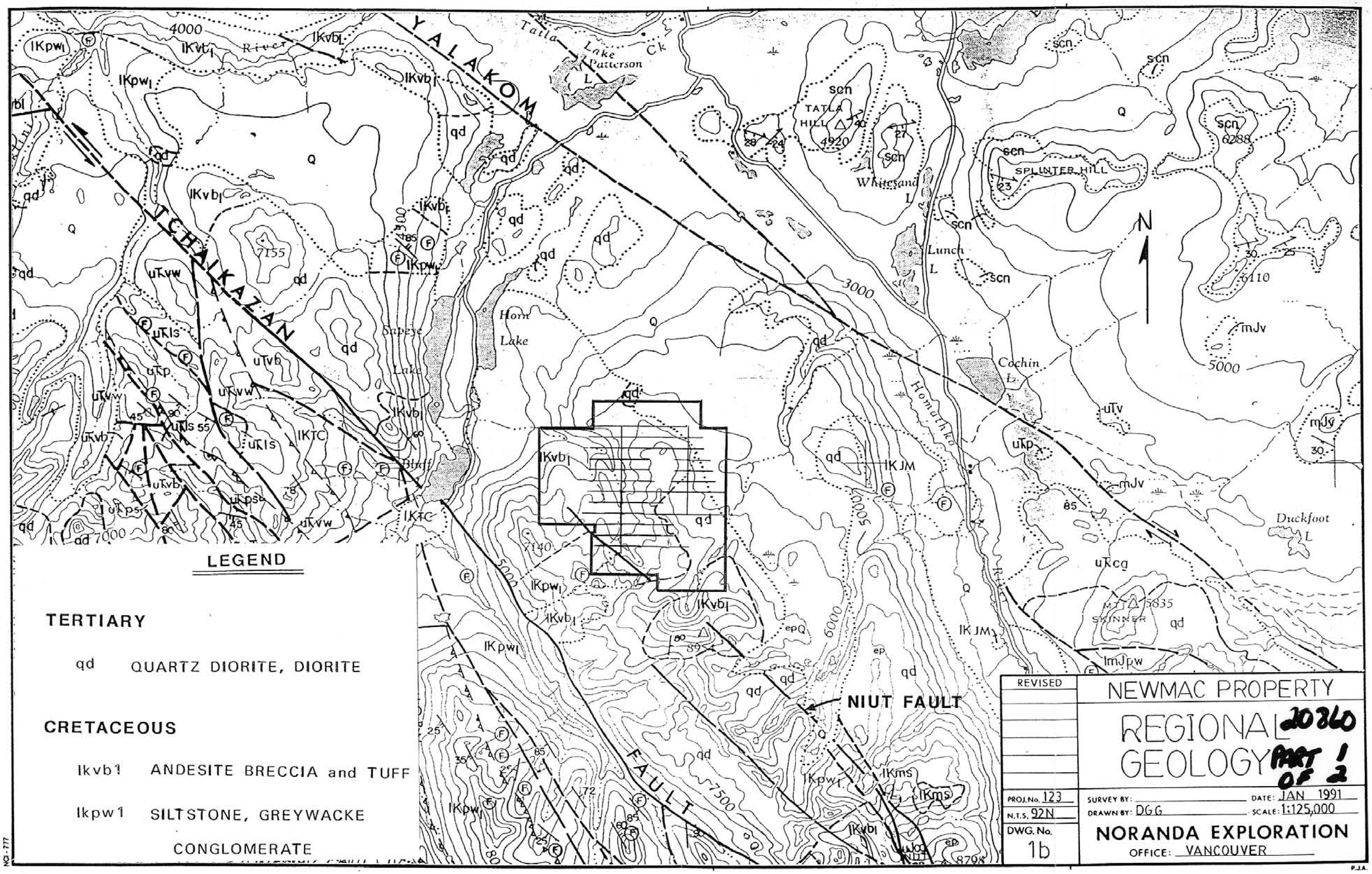
i) Purpose

The detailed portion (Lines 97N to 119N) of the grid established on the Newmac property was mapped at a scale of 1:2,500 over 32.5 kms of grid line in an effort to delineate rock types, alteration and structure associated with the known Cu-Au soil anomaly found by Noranda in 1972 and confirmed by Canevex in 1987.

Regional mapping of the ground surrounding the detailed grid was conducted at a scale of 1:10,000 in an attempt to discover other zones of copper-gold mineralization, alteration, and/or deformation related to a porphyry Cu-Au deposit.

ii) Regional Geology (Drawing 1b)

The NewMac property is situated on the southwest side of the Tyaughton Trough, a Late Jurassic depositional basin and is located between the right lateral strike-slip Yalakom fault to the north and the left lateral strike-slip Tchaikazan fault to the south. A northwest-southeast trending splay fault (Niut fault) from the Tchaikazon fault cuts through the southwest corner of the property.



LEGEND

TERTIARY

qd QUARTZ DIORITE, DIORITE

CRETACEOUS

lkvb1 ANDESITE BRECCIA and TUFF

lkpw1 SILTSTONE, GREYWACKE CONGLOMERATE

REVISED	
	NEWMAC PROPERTY
	REGIONAL GEOLOGY
	20860 PART 1 OF 2
PROJ. No. 123	SURVEY BY: DRAWN BY: DGG
N.T.S. 92N	DATE: JAN 1991 SCALE: 1:125,000
DWG. No. 1b	NORANDA EXPLORATION OFFICE: VANCOUVER

NCI-777

P.J.A.

The claims are underlain by Lower Cretaceous aged andesite and basalt breccias and tuffs, rhyolites and lesser shales, greywackes and conglomerates. This volcano-sedimentary pile has been intruded by Tertiary Coast Plutonic Complex rocks which range in composition from granites through diorites.

iii) <u>Detailed Geology</u>

Mapping of the detailed grid (Lines 97N to 119N) on the NewMac property was conducted at a scale of 1:2,500 (Drawing #10) while the surrounding ground was mapped at 1:10,000 scale (Drawing #9). Much of the exposure is restricted to the bluffs to the south of Butler Lake, along the north-south trending ridge on the far eastern extensions of the grid and to the cliffs located in the northeast corner of the detailed grid. Most of the lower areas of the property are covered by a relatively thick blanket of locally derived glacial till resulting in approximately 5% outcrop exposure in these areas. Due to the lack of exposure a large percentage of the underlying geology is inferred from the mapping of subcrop and float.

A large package of poorly stratified andesite crystal/ash tuffs, plagioclase +/- hornblende/augite porphyry flows, andesite lapilli tuffs, andesite flow breccias, and andesite dust tuffs (Unit 2) are the most common rock types observed and dominate the central portion of the grid and much of the surrounding ridge tops.

Interbedded with these intermediate flows and pyroclastics are rocks of Unit 3 described as grey to green colored rhyolites or rhyodacites. Most of these rhyolites occur as fine grained flows or tuffs exhibiting a cherty or sugary texture with 1-2 mm wide quartz eyes up to 5%. However, a coarser grained quartz-feldspar porphyry (Q.F.P.) variety was also observed in association with the finer grained version of this felsic rock type. It is thought that some of the coarse grained, porphyritic variety of this felsic pile constitutes flow rock. However, in other locations of the grid as well as in the core of hole NM-88-1 (Canavex, 1988) the quartz-feldspar porphyry appears to crosscut the andesitic pile in the form of sills or dykes. This suggests that portions of the coarser grained, porphyritic phase represents the intrusive equivalent of the finer grained flows or tuffs. These rhyolitic units are most commonly seen along the western edge of the detailed grid and in the cliffs to the northeast on lines 113N to 119N.

Locally dark green, vesicular basalt flow breccia with angular to subrounded fragments ranging in size from 0.5 cms to several centimeters in diameter and pillow basalts (pillows up to 1 meter) were observed interbedded with the rhyolitic and andesitic units.

Minor units of pebble conglomerate, arkosic sandstone and siltstone (Units 7, 8, & 9 respectively) were also noted during regional mapping on the bluffs south of Butler Lake.

Six different phases of intrusive (including the felsic quartz-feldspar porphyries described above) were observed on the Newmac property including three separate varieties of dioritic composition. The first, Unit 4a is described as a mottled dark to light green and white, medium grained diorite with up to 10-20% hornblende +/- biotite phenocrysts. This phase occurs in association with rusty, siliceous gossan zones between lines 104N & 107N centered at approximately 99+25E and as a small stock or plug in the southeast corner of the property intruding andesite tuffs. The second dioritic phase is similar to the latter in composition but contains up to 10-15% interstitial quartz and is described as a quartz diorite or tonalite (Unit 4b). Minor amounts of this intrusive type were observed between 104+50N and 105+50N at approximately 99+50E. Mapping of the north-south trending ridge on the eastern side of the property failed to locate this unit as reported by government mapping. However as the airborne magnetics and resistivity responses reveal an intrusive signature in this vicinity it is believed that the contact between the volcanics and the intrusive is most likely near surface or covered by the talus and till to the east of this ridge. A hornblende porphyry diorite constitutes Unit 4c and contains 15-20% hornblende phenocrysts up to 0.5 cm in size set within a dense, fine grained, greyish matrix. This unit is commonly magnetic and contains up to 5% pyrite/pyrrhotite in contrast to the other dioritic phases which are only locally magnetic and contain only trace to 2% sulfides. Unit 4c is also closely associated with the gossan zones between lines 104N and 107N as is Unit 4a mentioned previously. Examination of the core from hole NM-88-2 (Canevex, 1988) drilled at 105+05N/97+70E toward the east revealed a feldspar-hornblende porphyry with up to 20% sub to euhedral plagioclase phenocrysts and 5% hornblende laths (Unit 6) which appears to occur as a dyke crosscutting the medium grained diorite of Unit 4a. Due to the pervasive propylitic & siliceous alteration which has destroyed much of the original textures of the andesites & diorites observed in hole NM-88-2 and although the apparent percentages of the mineral constituents of Units 4c and 6 differ, it is postulated that these two phases may represent a single dyke cutting the dioritic phase of Unit 4a.

The last intrusive phase mapped was seen at only one location (100+25N/99+75E) as a dyke of coarse grained, leucocratic monzonite intruding an outcrop of andesite lapilli tuff.

Fracturing, faulting and shearing trends observed on the Newmac property consistently occurred at NNE-SSW, NW-SE, NNW-SSE and NE-SW orientations. Major faults were inferred from zones of shattering, oxidation, alignment of intrusive occurrences and topographic linears. One fault trending NW-SE and thought to be the Niut Fault is located to the south of Butler Lake and is represented by the alignment of 4 small tarns along the western tributary of Butler Creek and by the prominent rusty scarp on Lines 97N and 99N at approximately 94E (see Discussion of Results, Geochemical Survey section). Another NW-SE fault is inferred in the northeast corner of the detailed grid located immediately NE of the gossanous diorite exposure paralleling the eastern tributary of Butler Creek. Smaller NW-SE and NE-SW shear zones are located on the ridge top at the eastern end of line 99N where grab sample 11731 returned 24,503 ppm Cu and 58.9 ppm Ag from a sheared andesite tuff containing malachite, azurite, +/- covellite. On the north side of the property where Butler Creek swings to the west several NNE and NNW trending, vertical shear zones were also observed.

Of course the main structural feature of importance is the one represented by the main drainage of Butler Creek which trends NNE-SSW.

Here at least six subparallel zones of highly fractured, silicified, hematite & limonite stained gossans occur extending from approximately L97N, 93E to L109N, 100E and probably further north as suggested by the western limbs of both the moderate-high I.P. chargeability response (Drawing #17) and the Cu-Au soil anomaly (Drawings # 13 & 14). At ground level these gossan zones appear discontinuous although the till cover hinders mapping the total extent of these zones. However, it is concluded that each of these zones may be connected at depth and are certainly related to the same tectonic event which has allowed the emplacement of small intrusive bodies and caused sufficient ground preparation for hydrothermal solutions to migrate along the entire structure (1300 m minimum). These solutions have subsequently deposited fine grained pyrite, pyrrhotite and chalcopyrite as disseminations, veinlets and fracture fillings up to 15%. The largest of these gossan zones measures approximately 400 m x 60 m and extends across Lines 105N to 109N. It should be noted that the gossan is not restricted to one rock type but is found in rhyolites, diorites and andesites. The main fracture orientations measured within the zone are 0°-180°, 90°-270° and 45°-225°.

Other forms of alteration ranging from propylitic to strong silicification were also noted within the main Butler Creek drainage in both outcrop and drill core. Strong pervasive silica alteration was observed within the felsic intrusives and locally within the andesites & diorites. Chloritization of mafic minerals, zones of epidotization, bleaching caused by pervasive calc-silicate flooding, quartz & calcite veining and sericitization of feldspar phenocrysts were commonly seen within propylitized andesites & diorites. Locally small clots and vein selvages of pink to brownish garnet were noted.

3. Geochemical Survey

i) Purpose

A total of 1203 soils and 158 rocks were collected on the Newmac claims in order to delineate the extent of the known copper-gold geochemical anomaly and any other base or precious metal zones associated with a porphyry deposit.

ii) Techniques

Soil sampling of the A & B soil horizons was completed along all winglines of the grid at a sample interval of 50 m. Sampling was done with the aid of a shovel or maddock to a depth of 15-30 cms depending on the bedrock exposure. In alpine areas, where little or no soil development had taken place talus fines were collected in lieu of a proper soil sample. Soils collected were placed in brown 3 1/2" x 6 1/8" open-ended Kraft envelopes for shipping and storage purposes.

Rock specimens were collected as grab or chip samples from various locations on the property wherever mineralization, alteration or a favourable representative rock type was encountered.

All of the soils and rocks taken during this programme were sent to either the Noranda laboratory at 1050 Davie Street in Vancouver or Acme Analytical Laboratories Ltd. at 852 E. Hastings Street in Vancouver. Appendix III shows the analytical techniques used by both companies while Appendix IV reveals a list of all soil & rock samples with geochemical results and descriptions (where applicable).

iii) Discussion of Results

All samples collected were analyzed for 30 elements by I.C.P. method plus geochem-ed for gold. For the purposes of this report only copper and gold results have been plotted and contoured. Refer to Drawings 11 & 12 for contoured Cu and Au results for the detailed and reconnaissance grid combined and Drawings 13 & 14 for contoured values of Cu and Au for the detailed grid only. Contour values for each element represent threshold, first and second order anomalies obtained by statistical methods.

COPPER:

Copper results returned from the soil survey ranged from a low of 9 ppm to a high of 2426 ppm. Threshold, first and second order anomalies were determined to be 100 ppm, 200 ppm and 500 ppm respectively.

The main copper anomaly outlined by this survey parallels Butler Creek from Line 101N, 96+50E to Line 119N, 99+25E for a distance of 1.8 kms and ranges in width from approximately 50 m to 600 m. A continuation of this anomaly can also be projected to extend from Line 119N to Line 127N, 96+75E although the line separations at this point are 400 metres. However, if this projection is valid a further 800 m can be added to the original 1.8 kms to create a total strike length of 2.6 kms open to the north to perhaps Line 131N. To the south the copper soil anomaly appears to end at Line 101N where a large, steep, talus covered north facing bluff begins. It is suggested that the disappearance of the copper soil anomaly at this location may be due only to the effect of thick talus and scree cover as the high I.P. chargeability response (seen on Drawing #15 or 17) continues to at least Line 99N. However, government mapping suggests the northwest trending Niut fault (Tertiary in age) should truncate the geochemical anomaly within this vicinity. It is likely that the bluff mentioned above is probably a fault scarp.

On closer inspection it is apparent that there may actually be two different geochemical components which create the signature of this main anomaly to form the shape of a rough annulus centered at about 116N/100E. The first component (or western arm of the annulus) follows Butler Creek from Line 101N to Line 119N and trends parallel to one of the main foliations (NNE) observed in the gossanous zones while mapping (see Drawing #11). Of important note is that this western arm of the annulus is coincident with the boundary between high & low resistivities as depicted on Drawing #7 by the 1000 ohm•m contour.

The second geochemical component which forms the eastern arm of the annulus extends from 116N/100E southeast to approximately 110N/104E where it ends in a thick cover of glacial till which has filled a wide valley formed by the junction of two arms of an eastern tributary of Butler Creek. This component also parallels a main structural trend which has been represented on Drawing #9 by the NW-SE fault. Similar trending shears and foliations (malachite/azurite stained) have also been observed while prospecting on the eastern ends of lines 97N, 99N, 101N and 103N.

A strikingly good correlation can also be made between the rough annulus shaped geochemical anomaly and the semi-circular moderate to high I.P. chargeability responses outlined on Drawing #17. Here the western limbs of both the chargeability response and the geochemical anomaly are coincident. However, the eastern arm of the geochemical anomaly does not appear to completely overly the eastern limb of the chargeability signature. This may be explained, as stated earlier, by a masking of the geochemistry by thick till cover in this area.

Relating the copper soil anomalies to the geology mapped and the rock samples collected, it appears that the main copper zone is coincident with areas underlain by andesitic tuffs, flows and flow breccias in close association with the dioritic intrusive phase.

Below is a list of some of the more significant copper (gold) results returned from rock samples collected on the property. Note that only one anomalous result was obtained from the felsic rock types encountered.

Sample No.	Grid Location	Cu(ppm)	Au(ppb)	Ag(ppm)	Rock Type	Sample Type
119451	103+05N/96+95E	1182	5	0.7	And tf.	Chip (1.0 m)
119605	105+25N/98+80E	2093	84	1.0	Diorite	Grab
119606	104+68N/98+43E	31193	2410	19.0	Alt. and tf.	"
119607	104+90N/98+50E	1711	74	1.2	"	"
119608	104+95N/98+30E	1455	112	2.0	"	"
*119609	104+83N/98+20E	1755	42	1.6	"	Chip (1.5 m)
*119610	"	2109	80	2.3	"	Chip (1.5 m)
*119611	"	1842	53	1.5	"	Chip (2.0 m)
119612	106+68N/99+30E	1209	32	0.7	Q.F.P.	Grab
119617	105+30N/98+38E	1805	39	1.2	Alt. and tf.	"
119618	105+25N/98+37E	2276	84	2.3		Grab
59779	106+70N/118E	2285	37	9.6	"	"
117131	99+10N/120+15E	24503	44	58.9	And. tf.	"

* Continuous chip

As mentioned earlier in the "Discussion" section of the Airborne Survey it was hoped that soil sampling of the areas covered by the reconnaissance grid underlain by the high/low resistivity contact on the flanks of the main magnetic high would reveal other Cu (Au) rich zones. Although this may have helped in delineating an extension of the main copper zone across lines 123N to 127N, the remaining copper anomalies appear mainly as spot highs. However, due to the thick till cover on the northeast side of the regional magnetic high, soil sampling may not be the definitive exploration tool to test this theory.

GOLD:

Gold results returned from this survey ranged from a low of 1 ppb to a high of 500 ppb. Threshold, first and second order anomalies were determined to be 30 ppb, 50 ppb and 100 ppb respectively. These values have been contoured on Drawing #14. The contoured value of 20 ppb used on Drawing #12 represents both gold elevated and gold anomalous zones in order to form a better regional trend to the gold occurrences.

As with the copper rich zones, the main gold anomalies tend to occur parallel to Butler Creek and along the western limb of the moderate and high I.P. chargeability response as well as to the north crossing lines 111N to 119N. Still other anomalies occur inboard (eastward) of the western limbs of the copper - I.P. anomalies. The positions of these zones are listed below;

1) between lines 107N & 109N centered at 101E
2) between lines 107N & 109N centered at 102+50E
3) between lines 97N & 103N centered at 100+50E

and 4) between lines 97N & 99N centered at 103+50E.

It is unclear whether these latter anomalies represent some type of mineral zonation.

Most other gold anomalies on the property occur only as spot highs but all occur roughly within the circular high/low resistivity contact zone surrounding the large, regional magnetic high.

4. Geophysical Survey

i) Instrumentation

The surveys were conducted by Lloyd Geophysics of Vancouver. Instrumentation used for the survey included the Huntec 7.5Kw transmitter powerecd by a motor generator with a BRGM IP-6 as the receiver unit. The pole-dipole electrode array was used with an electrode spacing of 50 m with n=1 to n=5 being recorded. The magnetic survey utilized EDA Omni4 magnetometers with a recording basestation to accurately correct for diurnal variations of the magnetic field. The EDA system records the Total Magnetic Field with an accuracy of within 1 nanoTesla. Magnetic readings were taken every 12.5 m.

A total of 30.4 line-Km of I.P. was surveyed while 37.4 line-Km of magnetics work was completed.

ii) Data Presentation

The I.P. results are presented in pseudo-section format at a scale of 1:5000 while the magnetic results are presented in contoured map format and as profiles at a scale of 1:5000. Contoured chargeability and apparent resistivity maps of filtered values are also presented at a scale of 1:5000. The compilation of the geophysical interpretation is presented on the magnetics map as well.

iii) Discussion of Results

I.P. Survey

Development of anomalous I.P. zones can be seen from the pseudosections. Background chargeability values are considered to be 7 mV/V and less.

L.9700N: Hole in I.P. data due to lake. Edges of an anomalous I.P. response can be seen at the west edge of the line.

L.9900N: Hole in data due to lake and at East end probably due to poor current contacts. Two strong I.P. zones, one a shallow pod and the other a deeper body, lies at 9400E and 9725E respectively.

L.10100N: The two discrete zones have strengthened. A moderate response to the east appears at depth at 10600E.

L.10300N: Possibly 3 discrete responses at 9550E, 9725E, and 9875E at the wider of the 2 strong zones. The moderate zone to the east strengthens and shallows somewhat.

L.10500N: The wider of the two strong I.P. responses has diminished in size and appears to be sourced by a shallow pod at 9850E. The narrower response has weakened. Further development of the eastern zone into possibly 2 discrete deep sources.

L.10700N: The strong I.P. zone at the west has weakened and narrowed. Strengthening and shallowing of the moderate eastern zone into a single strong zone centred at 10725E.

L.10900N: The two zones of L.10700N appear continous at depth with the eastern expression being sourced closer to surface than the western one.

L.11100N: From the pseudosections of Lines 10100N to 10900N two zones of varying strength and narrowing separation appear to gradually shallow and merge into one body centred at 10250E on this line. This body or source is sharply cut off at its western edge while weak sources occur at the eastern edge. It is speculated that the two zones are controlled by southerly dipping, oppositely trending structures.

L.11300N: Weakening of the merged "main" zone into a moderate response. Development of a moderate zone at 10700E which can be seen more clearly on the next line.

L11500N: Further moderation of the main response while the eastern response shallows and strengthens.

L11700N: A moderate shallow pod appears at 10800E. The main zone has weakened to slightly above background chargeability values.

L11900N: The shallow pod continues while the main zone strengthens somewhat.

The chargeability and apparent resistivity plan maps shows an arcuate chargeability zone lying on the immediate inside perimeter of a discontinuous ring-like high resistivity zone. The high chargeability zones are generally associated with moderate resistivity values between 750 and 1000 ohm - m with no chargeability expressions found with the low resistivity values.

The arcuate chargeability zone may be the result of a merger of two strong zones at L.11100N/10250E as discussed above or the folding of a single zone with the nose at L.11100N/10250E.

Structural features and/or lineations interpreted from the chargeability and resistivity plan maps appear to control the occurence and extent of the chargeability features. The moderate zone lying to the northwest of the "main" zone at L.11100N narrows at location L.11700N/10000E while the moderate zone to the northeast appears to be a cut off extension of the east limb of the arcuate zone. The arcuate zone itself consists of pinched pods.

The resistivity plan map presents 2 very high resistivity areas of abundant outcrop, the NE, where interbedded rhyolite and andesites are mapped and the SE where andesite and rhyolite are also mapped. The high resistivity feature found immediately west of the baseline on Lines 9700N and 9900N corresponds closely to mapped basalts. In the central as well as the NW portion of the grid till cover is relatively thick and this is reflected in part by low resistivity values.

Magnetics

There is a high degree of correspondance between the magnetics and resistivity results. The dominant magnetic trend on the grid is NW - SE with an overall NE gradient. Two active and high bands corresponding to andesite flows are found in the eastern ends of the lines separated by a slight magnetic trough lineament. A ring of relatively high magnetic values surrounding low values coincident with the eastern pod of the arcuate zone poses an interesting target.

iv) Conclusions

The geophysical surveys has delineated an anomalous broad, arcuate chargeability zone that is controlled to a large extent by structural features. The dominant geophysical trend is NW - SE. The geophysical surveys have also successfully mapped the local geology which also appears to be controlled to an extent by structural features.

Targets have been generated by the geophysical surveys and these include:

1. L.10100N/9400E/ depth to top = surface
2. L.10300N/9700E/ depth to top = surface
3. L.10700N/9900E/ depth to top = surface
4. L.10900N/10700E/ depth to top = 35 m
5. L.11100N/10275E/ depth to top = 60 m
6. L.11300N/10150E/ depth to top = 60 m
7. L.11700N/10800E/ depth to top = 25 m

The above targets should be constrained with geological and geochemical information. Geophysical, geological and geochemical data should be compiled to effectively evaluate the property.

IV. CONCLUSIONS

Conclusions based on the surveys conducted on the Newmac property by Noranda Exploration in 1989-1990 are listed below.

1. A combined helicopter-borne magnetic, electromagnetic and VLF-EM survey has outlined a large regional magnetic high (5.4 kms x 0.5-1.8 kms) coincident with a roughly circular zone of high resistivity (4.5 kms x 1.5-2.0 kms) thought to represent a Tertiary quartz diorite stock intruding a Lower Cretaceous volcanic/sedimentary assemblage.

2. Enveloping the aforementioned high magnetic/high resistivity anomaly is a zone of low to moderate resistivity. A 2.6 km x 0.15-0.6 km Cu-Au soil anomaly has been found to exist along the transition between the high and low resistivity zones. Previous drilling in this transition zone returned 157 m of 0.178% Cu, 0.34 gm/T Au while another hole drilled outside of the transition zone returned no significant Cu-Au mineralization.

3. Geological mapping has revealed that a poorly stratified Lower Cretaceous assemblage of rhyolites and propylitically altered andesite flows and pyroclastics with minor interbedded sediments underlys the Newmac property. Cretaceous aged quartz feldspar porphyries, intrusive equivalents to the rhyolitic flows/tuffs have also been mapped. Intruding this volcanic/sedimentary package are stocks, plugs and dykes of monzonite to diorite composition.

4. Alteration of the andesites and diorites is commonly propylitic with minor zones of silicification or calc-silicate flooding containing minor garnet. Pervasive silicification dominates the quartz-feldspar porphyry.

5. Mineralization consists mainly of disseminations, veinlets and fracture fillings of pyrite, pyrrhotite and chalcopyrite. Areas of best sulfide development are found in silicified and gossanous structural breaks which appear to have controlled the emplacement of the dioritic intrusives.

6. Geophysics including I.P. and magnetometer surveys have outlined a broad semi-circular moderate to high I.P. chargeability response lying on the immediate inside perimeter of a discontinuous ring-like high resistivity zone measuring approximately 1.0-1.5 kms in diameter. A roughly annular shaped Cu-Au soil anomaly exists on the western, northern and northeastern edges of the chargeability/resistivity anomaly and appears to be controlled by intersecting NNE and NW trending, hydrothermally altered structural breaks.

7. It is conceivable that the structural breaks mentioned above may have controlled the emplacement of a Cu-Au porphyry deposit hidden by a thick cover of a glacial till central to the chargeability/geochemical anomaly. It is concluded that the presence of the anomalous Cu-Au soil values and the sulfide rich zones are caused by the migration of hydrothermal solutions along the NNE and NW structural breaks derived from this buried source.

8. An initial 5000' diamond drill hole programme is recommended to test the Cu-Au porphyry potential in this area based upon the recent chargeability, resistivity and geochemical results.

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APPENDICES I - VI

APPENDIX I

GENERAL INTERPRETATIVE CONSIDERATIONS (AIRBORNE)

APPENDIX I

GENERAL INTERPRETIVE CONSIDERATIONS

Electromagnetic

The Aerodat four frequency system utilizes two different transmitter-receiver coil geometries. The traditional coaxial coil configuration is operated at two widely separated frequencies and the horizontal coplanar coil pair is operated at a frequency approximately aligned with one of the coaxial frequencies.

The electromagnetic response measured by the helicopter system is a function of the "electrical" and "geometrical" properties of the conductor. The "electrical" property of a conductor is determined largely by its electrical conductivity, magnetic susceptibility and its size and shape; the "geometrical" property of the response is largely a function of the conductor's shape and orientation with respect to the measuring transmitter and receiver.

Electrical Considerations

For a given conductive body the measure of its conductivity or conductance is closely related to the measured phase shift between the received and transmitted electromagnetic field. A small phase shift indicates a relatively high conductance, a large phase shift lower conductance. A small phase shift results in a large inphase to quadrature ratio and a large phase shift a low ratio. This relationship is shown quantitatively for a non-magnetic vertical half-plane model on the accompanying phasor diagram. Other physical models will show the same trend but different quantitative relationships.

The phasor diagram for the vertical half-plane model, as presented, is for the coaxial coil configuration with the amplitudes in parts per million (ppm) of the primary field as measured at the response peak over the conductor. To assist the interpretation of the survey results the computer is used to identify the apparent conductance and depth at selected anomalies. The results of this calculation are presented in table form in Appendix II and the conductance and inphase amplitude are presented in symbolized form on the map presentation.

The conductance and depth values as presented are correct only as far as the model approximates the real geological situation. The actual geological source may be of limited length, have significant dip, may be strongly magnetic, its conductivity and thickness may vary with depth and/or strike and adjacent bodies and overburden may have modified the response. In general the conductance estimate is less affected by these limitations than is the depth estimate, but both should be considered as relative rather than absolute guides to the anomaly's properties.

Conductance in mhos is the reciprocal of resistance in ohms and in the case of narrow slab-like bodies is the product of electrical conductivity and thickness.

Most overburden will have an indicated conductance of less than 2 mhos; however, more conductive clays may have an apparent conductance of say 2 to 4 mhos. Also in the low conductance range will be electrolytic conductors in faults and shears.

The higher ranges of conductance, greater than 4 mhos, indicate that a significant fraction of the electrical conduction is electronic rather than electrolytic in nature. Materials that conduct electronically are limited to certain metallic sulphides and to graphite. High conductance anomalies, roughly 10 mhos or greater, are generally limited to sulphide or graphite bearing rocks.

Sulphide minerals, with the exception of such ore minerals as sphalerite, cinnabar and stibnite, are good conductors; sulphides may occur in a disseminated manner that inhibits electrical conduction through the rock mass. In this case the apparent conductance can seriously underrate the quality of the conductor in geological terms. In a similar sense the relatively non-conducting sulphide minerals noted above may be present in significant consideration in association with minor conductive sulphides, and the electromagnetic response only relate to the minor associated mineralization. Indicated conductance is also of little direct significance for the identification of gold mineralization. Although gold is highly conductive, it would not be expected to exist in sufficient quantity to create a recognizable anomaly, but minor accessory sulphide mineralization could provide a useful indirect indication.

In summary, the estimated conductance of a conductor can provide a relatively positive identification of significant sulphide or graphite mineralization; however, a moderate to low conductance value does not rule out the possibility of significant economic mineralization.

Geometrical Considerations

Geometrical information about the geologic conductor can often be interpreted from the profile shape of the anomaly. The change in shape is primarily related to the change in inductive coupling among the transmitter, the target, and the receiver.

In the case of a thin, steeply dipping, sheet-like conductor, the coaxial coil pair will yield a near symmetric peak over the conductor. On the other hand, the coplanar coil pair will pass through a null couple relationship and yield a minimum over the conductor, flanked by positive side lobes. As the dip of the conductor decreased from vertical, the coaxial anomaly shape changes only slightly, but in the case of the coplanar coil pair the side lobe on the down dip side strengthens relative to that on the up dip side.

As the thickness of the conductor increases, induced current flow across the thickness of the conductor becomes relatively significant and complete null coupling with the coplanar coils is no longer possible. As a result, the apparent minimum of the coplanar response over the conductor diminishes with increasing thickness, and in the limiting case of a fully 3 dimensional body or a horizontal layer or half-space, the minimum disappears completely.

A horizontal conducting layer such as overburden will produce a response in the coaxial and coplanar coils that is a function of altitude (and conductivity if not uniform). The profile shape will be similar in both coil configurations with an amplitude ratio (coplanar:coaxial) of about 4:1*.

In the case of a spherical conductor, the induced currents are confined to the volume of the sphere, but not relatively restricted to any arbitrary plane as in the case of a sheet-like form. The response of the coplanar coil pair directly over the sphere may be up to 8* times greater than that of the coaxial pair.

In summary, a steeply dipping, sheet-like conductor will display a decrease in the coplanar response coincident with the peak of the coaxial response. The relative strength of this coplanar null is related inversely to the thickness of the conductor; a pronounced null indicates a relatively thin conductor. The dip of such a conductor can be inferred from the relative amplitudes of the side-lobes.

Massive conductors that could be approximated by a conducting sphere will display a simple single peak profile form on both coaxial and coplanar coils, with a ratio between the coplanar to coaxial response amplitudes as high as 8*.

Overburden anomalies often produce broad poorly defined anomaly profiles. In most cases, the response of the coplanar coils closely follows that of the coaxial coils with a relative amplitude ration of 4*.

Occasionally, if the edge of an overburden zone is sharply defined with some significant depth extent, an edge effect will occur in the coaxial coils. In the case of a horizontal conductive ring or ribbon, the coaxial response will consist of two peaks, one over each edge; whereas the coplanar coil will yield a single peak.

* It should be noted at this point that Aerodat's definition of the measured ppm unit is related to the primary field sensed in the receiving coil without normalization to the maximum coupled (coaxial configuration). If such normalization were applied to the Aerodat units, the amplitude of the coplanar coil pair would be halved.

Magnetics

The Total Field Magnetic Map shows contours of the total magnetic field, uncorrected for regional variation. Whether an EM anomaly with a magnetic correlation is more likely to be caused by a sulphide deposit than one without depends on the type of mineralization. An apparent coincidence between an EM and a magnetic anomaly may be caused by a conductor which is also magnetic, or by a conductor which lies in close proximity to a magnetic body. The majority of conductors which are also magnetic are sulphides containing pyrrhotite and/or magnetite. Conductive and magnetic bodies in close association can be, and often are, graphite and magnetite. It is often very difficult to distinguish between these cases. If the conductor is also magnetic, it will usually produce an EM anomaly whose general pattern resembles that of the magnetics. Depending on the magnetic permeability of the conducting body, the amplitude of the inphase EM anomaly will be weakened, and if the conductivity is also weak, the inphase EM anomaly may even be reversed in sign.

VLF Electromagnetics

The VLF-EM method employs the radiation from powerful military radio transmitters as the primary signals. The magnetic field associated with the primary field is elliptically polarized in the vicinity of electrical conductors. The Herz Totem uses three coils in the X, Y, Z configuration to measure the total field and vertical quadrature component of the polarization ellipse.

The relatively high frequency of VLF (15-25) kHz provides high response factors for bodies of low conductance. Relatively "disconnected" sulphide ores have been found to produce measurable VLF signals. For the same reason, poor conductors such as sheared contacts, breccia zones, narrow faults, alteration zones and porous flow tops normally produce VLF anomalies. The method can therefore be used effectively for geological mapping. The only relative disadvantage of the method lies in its sensitivity to conductive overburden. In conductive ground to depth of exploration is severely limited.

The effect of strike direction is important in the sense of the relation of the conductor axis relative to the energizing electromagnetic field. A conductor aligned along a radius drawn from a transmitting station will be in a maximum coupled orientation and thereby produce a stronger response than a similar conductor at a different strike angle. Theoretically, it would be possible for a conductor, oriented tangentially to the transmitter to produce no signal. The most obvious effect of the strike angle consideration is that conductors favourably oriented with respect to the transmitter location and also near perpendicular to the flight direction are most clearly rendered and usually dominate the map presentation.

The total field response is an indicator of the existence and position of a conductivity anomaly. The response will be a maximum over the conductor, without any special filtering, and strongly favour the upper edge of the conductor even in the case of a relatively shallow dip.

The vertical quadrature component over steeply dipping sheet-like conductor will be a cross-over type response with the cross-over closely associated with the upper edge of the conductor.

The response is a cross-over type due to the fact that it is the vertical rather than total field quadrature component that is measured. The response shape is due largely to geometrical rather than conductivity considerations and the distance between the maximum and minimum on either side of the cross-over is related to target depth. For a given target geometry, the larger this distance the greater the depth.

The amplitude of the quadrature response, as opposed to shape is function of target conductance and depth as well as the conductivity of the overburden and host rock. As the primary field travels down to the conductor through conductive material it is both attenuated and phase shifted in a negative sense. The secondary field produced by this altered field at the target also has an associated phase shift. This phase shift is positive and is larger for relatively poor conductors. This secondary field is attenuated and phase shifted in a negative sense during return travel to the surface. The net effect of these 3 phase shifts determine the phase of the secondary field sensed at the receiver.

A relatively poor conductor in resistive ground will yield a net positive phase shift. A relatively good conductor in more conductive ground will yield a net negative phase shift. A combination is possible whereby the net phase shift is zero and the response is purely in-phase with no quadrature component.

A net positive phase shift combined with the geometrical cross-over shape will lead to a positive quadrature response on the side of approach and a negative on the side of departure. A net negative phase shift would produce the reverse. A further sign reversal occurs with a 180 degree change in instrument orientation as occurs on reciprocal line headings. During digital processing of the quadrature data for map presentation this is corrected for by normalizing the sign to one of the flight line headings.

APPENDIX II

AIRBORNE ANOMALY LIST

J8984 NORANDA EXPLORATION COMPANY, LIMITED WILLIAMS LAKE AREA, B.C.
EM ANOMALIES

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS
1	1011	A MGNTITE	0	-13.9	3.2	0.0	0	176
1	1011	B MGNTITE	0	-42.0	4.3	0.0	0	129
1	1011	C MGNTITE	0	-22.1	1.2	0.0	0	135
1	1011	D MGNTITE	0	-14.6	1.9	0.0	0	136
1	1011	E MGNTITE	0	-6.0	2.1	0.0	0	162
1	1011	F MGNTITE	0	-6.2	3.1	0.0	0	181
1	1011	G MGNTITE	0	-9.7	5.2	0.0	0	152
1	1011	H MGNTITE	0	-5.9	5.0	0.0	0	187
1	1011	J MGNTITE	0	-5.0	4.7	0.0	0	211
1	1011	K MGNTITE	0	-6.4	3.6	0.0	0	180
1	1011	M MGNTITE	0	-19.2	0.5	0.0	0	145
1	1011	N MGNTITE	0	-10.0	3.9	0.0	0	187
1	1011	O MGNTITE	0	-52.8	2.5	0.0	0	154
1	1011	P MGNTITE	0	-62.7	6.1	0.0	0	113
1	1011	Q MGNTITE	0	-12.2	4.9	0.0	0	166
1	1020	A	0	8.9	27.4	0.2	0	168
1	1020	B	0	6.3	12.6	0.3	0	236
1	1020	C MGNTITE	0	-2.7	0.6	0.0	0	198
1	1020	D MGNTITE	0	-7.1	3.4	0.0	0	204
1	1020	E MGNTITE	0	-9.4	5.3	0.0	0	195
1	1020	F MGNTITE	0	-9.5	3.8	0.0	0	197
1	1020	G MGNTITE	0	-8.8	2.0	0.0	0	200
1	1020	H MGNTITE	0	-16.4	2.4	0.0	0	184
1	1020	J MGNTITE	0	-10.1	3.5	0.0	0	189
1	1020	K MGNTITE	0	-12.9	3.9	0.0	0	175
1	1020	M MGNTITE	0	-14.4	3.1	0.0	0	166
1	1020	N MGNTITE	0	-8.8	2.3	0.0	0	179
1	1020	O MGNTITE	0	-3.8	0.4	0.0	0	250
1	1020	P MGNTITE	0	-6.9	3.8	0.0	0	214
1	1020	Q MGNTITE	0	-8.3	10.5	0.0	0	173
3	1031	A MGNTITE	0	-33.4	1.9	0.0	0	145
3	1031	B MGNTITE	0	-4.9	0.4	0.0	0	210
3	1031	C MGNTITE	0	-3.1	0.6	0.0	0	227
3	1031	D MGNTITE	0	-5.4	0.5	0.0	0	200
3	1031	E MGNTITE	0	-5.6	2.1	0.0	0	215
3	1031	F MGNTITE	0	-5.3	12.7	0.0	0	188
3	1041	A MGNTITE	0	-27.7	4.5	0.0	0	193
3	1041	B MGNTITE	0	-5.7	3.3	0.0	0	223
3	1041	C MGNTITE	0	-16.9	1.9	0.0	0	157
3	1041	D MGNTITE	0	-33.9	2.4	0.0	0	173
3	1041	E MGNTITE	0	-7.5	1.9	0.0	0	203

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J8984 NORANDA EXPLORATION COMPANY, LIMITED WILLIAMS LAKE AREA, B.C.
EM ANOMALIES

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS
3	1041	F	MGNTITE 0	-9.1	3.6	0.0	0	198
3	1041	G	MGNTITE 0	-9.3	1.1	0.0	0	198
3	1041	H	MGNTITE 0	-6.1	1.2	0.0	0	201
3	1041	J	MGNTITE 0	-13.0	1.7	0.0	0	178
3	1041	K	MGNTITE 0	-8.1	1.4	0.0	0	198
3	1041	M	MGNTITE 0	-5.1	0.5	0.0	0	198
3	1041	N	MGNTITE 0	-3.4	-0.1	0.0	0	199
3	1041	O	MGNTITE 0	-4.1	-0.8	0.0	0	207
3	1041	P	MGNTITE 0	-2.0	0.0	0.0	0	228
3	1041	Q	MGNTITE 0	-4.4	-0.7	0.0	0	236
1	1050	A	MGNTITE 0	-17.9	1.9	0.0	0	186
1	1050	B	MGNTITE 0	-6.9	0.4	0.0	0	198
1	1050	C	MGNTITE 0	-14.9	4.4	0.0	0	189
1	1050	D	MGNTITE 0	-23.1	2.6	0.0	0	170
1	1050	E	MGNTITE 0	-20.9	2.6	0.0	0	175
1	1050	F	MGNTITE 0	-19.3	2.6	0.0	0	185
1	1050	G	MGNTITE 0	-5.6	6.9	0.0	0	221
1	1060	A	MGNTITE 0	-6.0	5.9	0.0	0	179
1	1060	B	MGNTITE 0	-9.1	4.8	0.0	0	180
1	1060	C	MGNTITE 0	-4.5	1.2	0.0	0	240
1	1060	D	MGNTITE 0	-3.9	0.0	0.0	0	208
1	1060	E	MGNTITE 0	-4.1	-0.3	0.0	0	186
3	1070	A	MGNTITE 0	-10.6	4.2	0.0	0	157
3	1070	B	MGNTITE 0	-13.9	4.0	0.0	0	155
3	1070	C	MGNTITE 0	-25.0	4.1	0.0	0	147
3	1070	D	MGNTITE 0	-4.0	1.2	0.0	0	212
3	1070	E	MGNTITE 0	-4.5	0.9	0.0	0	194
3	1070	F	MGNTITE 0	-6.6	1.2	0.0	0	210
3	1070	G	MGNTITE 0	-4.8	1.4	0.0	0	212
3	1070	H	MGNTITE 0	-20.8	0.6	0.0	0	154
3	1070	J	MGNTITE 0	-6.3	-0.1	0.0	0	291
3	1080	A	MGNTITE 0	-32.0	4.2	0.0	0	150
3	1080	B	MGNTITE 0	-5.4	1.1	0.0	0	225
3	1080	C	MGNTITE 0	-12.2	0.0	0.0	0	166
3	1080	D	MGNTITE 0	-14.0	0.5	0.0	0	216
3	1080	E	MGNTITE 0	-4.9	0.4	0.0	0	194
3	1080	F	MGNTITE 0	-4.6	0.1	0.0	0	209
3	1080	G	MGNTITE 0	-4.1	3.0	0.0	0	188
3	1080	H	MGNTITE 0	-7.1	-0.5	0.0	0	192
3	1090	A	MGNTITE 0	-6.1	2.0	0.0	0	172

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J8984 NORANDA EXPLORATION COMPANY, LIMITED WILLIAMS LAKE AREA, B.C.
EM ANOMALIES

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS
3	1090	B MGNTITE	0	-3.7	1.9	0.0	0	156
3	1090	C MGNTITE	0	-4.8	0.6	0.0	0	232
3	1090	D MGNTITE	0	-9.5	0.1	0.0	0	217
3	1090	E MGNTITE	0	-3.3	0.2	0.0	0	249
3	1100	A MGNTITE	0	-6.5	1.4	0.0	0	176
3	1100	B MGNTITE	0	-12.7	2.3	0.0	0	161
3	1100	C MGNTITE	0	-4.4	2.9	0.0	0	173
3	1100	D MGNTITE	0	-14.8	1.8	0.0	0	142
3	1100	E MGNTITE	0	-5.0	1.7	0.0	0	180
3	1100	F MGNTITE	0	-24.7	1.2	0.0	0	177
3	1100	G MGNTITE	0	-25.0	0.0	0.0	0	172
3	1110	A MGNTITE	0	-4.5	0.1	0.0	0	206
3	1110	B MGNTITE	0	-2.7	0.7	0.0	0	222
3	1110	C MGNTITE	0	-7.4	0.3	0.0	0	189
3	1110	D MGNTITE	0	-12.1	0.1	0.0	0	180
3	1110	E MGNTITE	0	-21.7	0.8	0.0	0	172
3	1110	F MGNTITE	0	-13.5	0.6	0.0	0	190
3	1120	A MGNTITE	0	-1.2	-0.5	0.0	0	283
3	1120	B MGNTITE	0	-3.2	0.0	0.0	0	253
3	1120	C MGNTITE	0	-8.4	2.4	0.0	0	226
3	1120	D MGNTITE	0	-3.5	2.6	0.0	0	220
3	1120	E MGNTITE	0	-2.4	0.7	0.0	0	311
3	1120	F MGNTITE	0	-4.2	0.5	0.0	0	234
3	1130	A MGNTITE	0	-6.3	0.9	0.0	0	176
3	1130	B MGNTITE	0	-26.3	0.6	0.0	0	155
3	1140	A MGNTITE	0	-7.1	2.0	0.0	0	205
3	1140	B MGNTITE	0	-9.8	3.6	0.0	0	204
4	1160	A MGNTITE	0	-17.8	11.5	0.0	0	179
4	1160	B MGNTITE	0	-26.9	14.0	0.0	0	173
4	1160	C MGNTITE	0	-23.7	11.4	0.0	0	173
6	1190	A MGNTITE	0	-2.8	12.4	0.0	0	143
6	1190	B MGNTITE	0	-4.5	11.2	0.0	0	164
6	1190	C MGNTITE	0	-0.9	9.1	0.0	0	213
6	1190	D MGNTITE	0	1.6	6.5	0.0	0	235
6	1190	E MGNTITE	0	-7.9	5.0	0.0	0	205
6	1190	F MGNTITE	0	-9.0	7.1	0.0	0	191
6	1200	A MGNTITE	0	3.5	15.4	0.0	0	213

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J8984 NORANDA EXPLORATION COMPANY, LIMITED WILLIAMS LAKE AREA, B.C.
EM ANOMALIES

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	AMPLITUDE (PPM) QUAD.	CONDUCTOR CTP MHOS	CONDUCTOR DEPTH MTRS	BIRD HEIGHT MTRS
6	1200	B MGNTITE	0	-4.7	18.6	0.0	0	157
6	1200	C MGNTITE	0	-12.3	19.5	0.0	0	155
6	1200	D MGNTITE	0	-4.5	10.0	0.0	0	200
6	1200	E MGNTITE	0	-3.0	11.6	0.0	0	235
6	1210	A MGNTITE	0	-0.4	30.7	0.0	0	192
6	1210	B MGNTITE	0	-5.2	7.6	0.0	0	201
6	1210	C MGNTITE	0	-24.0	7.3	0.0	0	200
6	1210	D MGNTITE	0	-5.5	14.4	0.0	0	171
6	1220	A MGNTITE	0	-3.9	39.2	0.0	0	103
6	1220	B MGNTITE	0	-4.1	31.2	0.0	0	114
6	1220	C MGNTITE	0	-7.0	11.2	0.0	0	184
6	1220	D MGNTITE	0	-24.5	5.8	0.0	0	175
6	1220	E MGNTITE	0	-6.7	8.2	0.0	0	224
6	1220	F MGNTITE	0	-4.4	5.7	0.0	0	227
6	1230	A MGNTITE	0	-4.7	8.2	0.0	0	196
6	1230	B MGNTITE	0	-5.6	7.1	0.0	0	208
6	1230	C MGNTITE	0	-15.7	4.6	0.0	0	195
6	1230	D MGNTITE	0	-1.8	10.4	0.0	0	198
6	1230	E	0	5.9	20.3	0.1	0	196
6	1240	A MGNTITE	0	-1.6	13.7	0.0	0	153
6	1240	B	0	5.5	19.0	0.1	0	279
6	1240	C	0	4.2	23.0	0.0	0	205
6	1240	D MGNTITE	0	-6.1	3.4	0.0	0	199
6	1240	E MGNTITE	0	-8.5	5.6	0.0	0	200
6	1240	F MGNTITE	0	-8.5	3.7	0.0	0	182
5	1250	A MGNTITE	0	-7.6	6.5	0.0	0	231
5	1260	A MGNTITE	0	3.3	22.6	0.0	0	168
5	1270	A	0	4.9	18.5	0.1	0	212
5	1270	B	0	6.3	15.3	0.2	0	283
5	1280	A	0	6.6	23.2	0.1	0	254
5	1280	B MGNTITE	0	-4.0	12.8	0.0	0	177
5	1280	C MGNTITE	0	-3.6	3.4	0.0	0	265
5	1280	D MGNTITE	0	-6.3	5.8	0.0	0	172
5	1290	A	0	20.6	39.8	0.5	0	228
5	1290	B	0	7.2	17.3	0.2	0	225
5	1290	C MGNTITE	0	-0.4	5.6	0.0	0	231

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J8984 NORANDA EXPLORATION COMPANY, LIMITED WILLIAMS LAKE AREA, B.C.
EM ANOMALIES

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS
5	1300	A	0	8.4	39.0	0.1	0	149
5	1300	B	0	7.4	27.1	0.1	0	183
5	1300	C MGNTITE	0	-3.3	4.3	0.0	0	212
5	1313	A MGNTITE	0	-9.9	6.9	0.0	0	182
5	1313	B MGNTITE	0	-9.0	3.4	0.0	0	180
5	1313	C MGNTITE	0	-5.9	5.1	0.0	0	168
5	1313	D MGNTITE	0	-0.9	7.6	0.0	0	254
5	1313	E	1	24.3	22.8	1.5	0	287
5	1313	F	0	17.9	51.1	0.3	0	165
5	1313	G MGNTITE	0	-7.4	3.4	0.0	0	167
5	1320	A MGNTITE	0	-7.6	3.8	0.0	0	164
5	1320	B MGNTITE	0	-11.2	2.0	0.0	0	144
5	1320	C MGNTITE	0	-8.8	1.9	0.0	0	150
5	1320	D	0	11.3	29.3	0.2	0	190
5	1320	E	0	19.1	43.7	0.4	0	204
5	1330	A MGNTITE	0	-10.1	7.7	0.0	0	218
5	1330	B MGNTITE	0	-10.3	4.3	0.0	0	165
5	1330	C MGNTITE	0	-28.2	7.4	0.0	0	157
5	1330	D MGNTITE	0	-49.8	7.4	0.0	0	147
5	1330	E	0	5.5	22.1	0.1	0	180
5	1340	A MGNTITE	0	-15.1	10.4	0.0	0	130
5	1340	B MGNTITE	0	-11.1	3.2	0.0	0	175
5	1340	C MGNTITE	0	-31.2	9.3	0.0	0	153
5	1340	D MGNTITE	0	-31.2	9.5	0.0	0	156
5	1340	E MGNTITE	0	-30.7	8.4	0.0	0	148
5	1340	F MGNTITE	0	-51.6	9.3	0.0	0	135
5	1340	G	0	2.4	16.6	0.0	0	255
2	1350	A	0	11.2	22.8	0.4	0	258
2	1350	B MGNTITE	0	-4.3	3.2	0.0	0	202
2	1350	C MGNTITE	0	-13.4	6.4	0.0	0	181
2	1350	D MGNTITE	0	-6.6	1.9	0.0	0	199
2	1360	A MGNTITE	0	-5.5	5.9	0.0	0	165
2	1360	B MGNTITE	0	-25.3	5.9	0.0	0	152
2	1360	C MGNTITE	0	-49.6	14.3	0.0	0	140
2	1360	D MGNTITE	0	-21.0	6.9	0.0	0	154
2	1360	E MGNTITE	0	-5.1	1.7	0.0	0	213
2	1370	A MGNTITE	0	-3.9	9.3	0.0	0	172

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

J8984 NORANDA EXPLORATION COMPANY, LIMITED WILLIAMS LAKE AREA, B.C.

EM ANOMALIES

FLIGHT	LINE	ANOMALY	CATEGORY	AMPLITUDE (PPM) INPHASE	QUAD.	CONDUCTOR CTP MHOS	DEPTH MTRS	BIRD HEIGHT MTRS
2	1370	B	0	3.8	14.7	0.0	0	196
2	1370	C	0	9.9	26.1	0.2	0	180
2	1370	D	0	9.6	17.1	0.4	0	242
2	1370	E	0	9.4	20.4	0.3	0	227
2	1380	A MGNTITE	0	-3.3	2.4	0.0	0	234
2	1380	B MGNTITE	0	-4.9	3.4	0.0	0	213
2	1390	A MGNTITE	0	-9.7	4.5	0.0	0	173
2	1390	B MGNTITE	0	-9.5	5.5	0.0	0	199
2	1390	C MGNTITE	0	-12.1	2.2	0.0	0	200
2	1390	D MGNTITE	0	-18.1	5.1	0.0	0	196
2	1390	E	0	3.9	12.7	0.1	0	199
2	1400	A	0	1.9	12.9	0.0	0	170
2	1400	B MGNTITE	0	-4.7	6.4	0.0	0	208
2	1400	C MGNTITE	0	-4.8	10.3	0.0	0	165
2	1400	D MGNTITE	0	-3.6	3.7	0.0	0	216
2	1400	E MGNTITE	0	-7.0	2.6	0.0	0	223
2	1410	A MGNTITE	0	-23.9	13.1	0.0	0	160
2	1410	B MGNTITE	0	-46.1	9.7	0.0	0	149
2	1410	C MGNTITE	0	-37.0	2.6	0.0	0	154
2	1410	D MGNTITE	0	-7.8	3.8	0.0	0	192
2	1410	E MGNTITE	0	-9.9	5.3	0.0	0	196
2	1420	A MGNTITE	0	-8.7	0.9	0.0	0	214
2	1441	A MGNTITE	0	-9.8	9.2	0.0	0	173
2	1441	B MGNTITE	0	-10.2	-0.6	0.0	0	191
1	1450	A MGNTITE	0	-10.4	0.5	0.0	0	188

Estimated depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or overburden effects.

APPENDIX III

LABORATORY ANALYTICAL TECHNIQUES

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

The methods listed are presently applied to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver.

Preparation of Samples:

Sediments and soils are dried at approximately 80^{o}C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for geochemical analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). Heavy mineral fractions (panned samples * from constant volume), are analysed in its entirety, when it is to be determined for gold without further sample preparation.

Analysis of Samples:

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of rock or core are weighed out at 0.4 g and chemical quantities are doubled relative to the above noted method for digestion.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn can be determined directly from the digest (dissolution) with a conventional atomic absorption spectrometric procedure. A Varian-Techtron, Model AA-5 or Model AA-475 is used to measure elemental concentrations.

Elements Requiring Specific Decomposition Method:

Antimony - Sb: 0.2 g sample is attacked with 3.3 ml of 6% tartaric acid, 1.5 ml conc. hydrochloric acid and 0.5 ml of conc. nitric acid, then heated in a water bath for 3 hours at 95^{o}C. Sb is determined directly from the dissolution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.3 g sample is digested with 1.5 ml of perchloric 70% and 0.5 ml of conc. nitric acid. A Varian AA-475 equipped with an As-EDL is used to measure arsenic content in the digest.

Barium - Ba: 0.1 g sample digested overnight with conc. perchloric, nitric and hydrofluoric acid; Potassium chloride added to prevent ionization. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 - 0.3 g is digested with 2.0 ml of perchloric 70% and 1.0 ml of conc. nitric acid. Bismuth is determined directly from the digest with an AA-475 complete with EDL.

Gold - Au: 10.0 g sample is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with MIBK from the aqueous solution. AA is used to determine Au.

Magnesium - Mg: 0.05 - 0.10 g sample is digested with 4 ml perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with the use of a nitrous oxide flame determines Mg from the aqueous solution.

Tungsten - W: 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

Uranium - U: An aliquot from a perchloric-nitric decomposition, usually from the multi-element digestion, is buffered. The aqueous solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

N.B.: If additional elemental determinations are required on panned samples, state this at the time of sample submission. Requests after gold determinations would be futile.

LOWEST VALUES REPORTED IN PPM:

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.01
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

ANALYTICAL METHOD DESCRIPTION FOR ICP BY ACME ANALYTICAL LABORATORIES LTD.

A .500 gram sample is digested with 3 ml of $HCl-HNO_3-H_2O$ (3:1:2) at 95°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. Au* analysis by acid leach/AA from 10 gm sample.

APPENDIX IV

GEOCHEMICAL RESULTS

NORANDA VANCOUV R LABORATORY
Geochemical Analysis

Project Name & No.: NEWMAC - 123 Geol.: G.G. Date rec'd: JUL. 17 LAB CODE: 9007-055
Material: 267 SOILS Sheet: 1 of 7 Date compl: AUG. 07
Remarks:

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 HClO4/HNO3 (4:1) at 203 deg. 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, Ga, La, Li are rarely dissolved completely from geological materials with acid dissolution methods.

T.T. No.	SAMPLE No.	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
2	9700N-9000E	0.2	3.86	13	145	0.7	2	0.55	0.2	43	11	32	32	3.24	11	0.41	15	17	0.71	1076	1	0.07	17	0.14	8	55	0.23	105	94
3	9050	0.2	4.54	12	142	0.8	2	0.54	0.2	54	12	34	36	3.57	12	0.48	18	19	0.82	536	1	0.07	22	0.10	7	51	0.24	105	91
4	9100	0.2	3.88	14	157	0.7	2	0.60	0.2	53	10	36	27	3.45	15	0.43	19	19	0.68	581	1	0.07	20	0.12	8	58	0.25	94	90
5	9150	0.2	4.06	15	154	0.7	2	0.62	0.2	44	12	26	28	3.32	17	0.43	15	21	0.79	587	1	0.08	19	0.12	8	51	0.18	113	99
6	9700N-9200E	0.2	3.98	15	154	0.9	2	0.77	0.2	74	15	45	46	3.48	14	0.37	29	17	0.78	711	1	0.06	27	0.14	10	58	0.27	109	99
7	9700N-9250E	0.2	2.99	21	142	0.7	2	0.92	0.3	71	13	36	32	3.10	17	0.34	26	14	0.73	653	1	0.06	23	0.10	11	68	0.28	94	92
8	9300	0.2	3.05	22	146	0.7	2	0.95	0.2	67	12	30	30	3.05	17	0.38	23	14	0.73	617	1	0.06	19	0.08	10	68	0.26	93	74
9	9350	0.2	4.45	56	192	0.7	2	0.47	0.2	54	10	24	27	3.30	17	0.62	18	18	0.62	551	1	0.06	14	0.10	14	46	0.23	85	148
10	9400	0.2	6.23	226	327	1.4	2	0.96	2.2	92	19	10	37	3.35	25	1.39	31	14	0.65	2445	1	0.11	13	0.09	51	81	0.17	60	410
11	9700N-9550E	0.2	4.64	22	158	1.0	2	0.69	0.2	42	21	35	43	3.57	7	0.53	17	18	1.29	1387	1	0.05	33	0.08	10	55	0.24	117	141
12	9700N-9600E	0.2	4.35	10	151	0.9	2	0.64	0.2	36	16	36	32	3.67	4	0.56	13	19	1.21	811	1	0.06	26	0.06	9	54	0.25	125	126
13	9650	0.2	4.80	6	156	0.7	2	0.70	0.2	38	14	27	33	3.65	4	0.60	13	17	1.19	800	1	0.06	22	0.06	14	58	0.22	108	117
14	9700	0.2	4.82	9	149	0.7	2	0.72	0.2	36	17	31	38	4.21	3	0.54	13	19	1.28	820	1	0.06	27	0.08	11	57	0.25	144	142
15	9750	0.2	4.23	8	152	0.6	2	0.73	0.2	38	10	28	19	3.63	6	0.50	13	19	0.84	705	1	0.07	16	0.09	7	62	0.24	104	106
16	9700N-9800E	0.2	4.04	11	167	0.6	2	0.67	0.2	37	10	22	28	3.77	5	0.46	13	16	0.81	1217	1	0.06	14	0.13	8	60	0.23	106	104
17	9700N-9850E	0.2	4.37	16	206	0.9	2	0.88	0.2	47	15	20	46	3.32	8	0.59	15	17	0.94	1748	1	0.08	18	0.15	25	67	0.19	89	114
18	9900	0.2	4.01	7	201	0.6	2	0.77	0.2	34	10	20	23	3.54	9	0.53	11	19	0.79	1557	1	0.06	13	0.17	8	61	0.19	99	115
19	9950	0.2	3.83	9	138	0.6	2	0.79	0.2	40	11	33	27	3.52	6	0.42	13	17	1.03	781	1	0.05	17	0.11	9	56	0.24	96	95
20	10000	0.2	4.22	9	148	0.7	2	0.83	0.2	42	16	29	42	3.73	8	0.55	13	17	1.33	1036	1	0.06	23	0.12	9	60	0.24	113	104
21	9700N-10300E	0.2	4.53	16	209	0.9	2	1.04	0.2	47	15	31	54	3.25	14	0.77	17	14	1.19	853	1	0.04	36	0.08	6	74	0.20	87	82
22	9700N-10350E	0.2	4.12	21	207	0.8	2	0.96	0.2	31	15	34	57	3.49	10	0.62	10	19	1.48	1176	4	0.05	21	0.10	6	56	0.17	125	168
23	10400	0.2	4.07	6	138	0.5	2	0.50	0.2	37	9	33	16	3.18	7	0.42	14	16	1.11	453	1	0.06	16	0.06	3	50	0.23	91	105
24	10450	0.2	4.27	11	137	0.5	2	0.47	0.2	35	11	41	28	3.71	6	0.43	13	18	1.08	590	1	0.07	22	0.06	5	51	0.21	103	118
25	10500	0.2	3.95	13	112	0.5	2	0.62	0.2	33	12	28	25	3.60	8	0.44	12	19	1.07	656	1	0.05	15	0.06	7	55	0.20	105	115
26	9700N-10550E	0.2	3.89	8	91	0.4	2	0.86	0.2	36	9	24	15	2.87	11	0.37	12	16	0.84	448	1	0.05	12	0.05	7	73	0.19	86	100
27	9700N-10600E	0.2	4.48	10	137	0.5	2	0.77	0.2	31	13	34	30	3.55	8	0.46	11	19	1.37	617	1	0.05	22	0.06	6	66	0.20	108	124
28	10650	0.2	3.97	15	123	0.5	2	0.72	0.2	34	10	38	25	3.18	9	0.37	12	19	0.95	581	1	0.06	19	0.07	6	64	0.23	104	102
29	10700	0.2	3.72	10	86	0.5	2	0.58	0.2	32	10	37	24	2.83	8	0.39	10	16	1.05	450	1	0.04	19	0.06	5	46	0.17	79	69
30	10750	0.2	3.49	10	116	0.5	2	0.60	0.2	35	7	25	20	2.42	10	0.36	13	16	0.61	484	1	0.06	11	0.07	5	60	0.23	80	75
31	9700N-10800E	0.2	3.66	11	116	0.7	2	0.64	0.2	36	8	26	24	2.67	9	0.40	14	15	0.59	465	1	0.05	15	0.07	7	62	0.19	75	78
32	9700N-10850E	0.4	4.12	4	115	0.7	2	0.59	0.2	31	5	14	16	2.55	6	0.47	10	15	0.44	337	1	0.05	9	0.06	4	45	0.16	52	70
33	10900	0.4	3.34	2	88	0.6	2	0.92	0.2	38	5	24	12	2.01	9	0.29	13	9	0.35	374	1	0.05	9	0.04	6	69	0.23	69	49
34	10950	0.4	4.18	11	115	0.6	2	1.24	0.2	40	11	38	28	3.48	11	0.35	13	21	0.85	562	1	0.08	23	0.08	7	94	0.33	112	174
35	11000	0.4	4.53	18	141	0.6	2	0.77	0.2	36	10	27	33	3.78	8	0.45	13	22	0.72	781	1	0.08	16	0.13	5	75	0.29	119	100
36	9700N-11050E	0.4	3.35	10	149	0.5	2	0.93	0.2	35	8	28	23	2.73	12	0.39	11	14	0.54	824	1	0.06	15	0.17	6	72	0.25	95	85

T.T. No.	SAMPLE No.	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
37	9700N-11100E	0.2	3.22	12	138	0.5	2	0.97	0.2	35	10	72	25	3.23	10	0.34	12	15	0.88	952	1	0.07	31	0.08	7	80	0.27	126	92
38	11150	0.2	3.22	13	127	0.5	2	0.81	0.2	33	10	27	36	3.11	9	0.35	11	15	0.70	809	1	0.07	15	0.19	7	64	0.23	111	90
39	11200	0.4	3.45	5	119	0.5	2	0.68	0.2	41	8	24	21	2.72	7	0.34	17	16	0.69	379	1	0.07	15	0.08	6	59	0.24	81	72
40	11250	0.6	3.51	5	137	0.4	2	0.42	0.2	29	5	11	13	2.11	6	0.34	10	12	0.32	372	1	0.05	8	0.12	4	35	0.12	54	74
41	9700N-11300E	0.2	3.34	10	150	0.7	2	0.53	0.2	40	8	26	20	2.55	9	0.53	17	14	0.44	396	1	0.05	15	0.13	7	50	0.18	67	78
42	9700N-11350E	0.2	3.66	10	152	0.7	2	0.52	0.2	52	9	31	22	2.96	8	0.54	19	13	0.54	554	1	0.06	18	0.11	6	46	0.20	72	82
43	11400	0.4	3.76	10	177	0.6	2	0.58	0.2	40	8	21	20	2.74	10	0.52	15	13	0.49	883	1	0.06	12	0.18	5	52	0.18	69	93
44	11450	0.4	3.73	14	224	0.7	2	0.63	0.2	60	11	23	27	3.24	9	0.62	21	13	0.65	886	1	0.06	17	0.09	6	52	0.22	82	74
45	11500	0.2	2.75	7	108	0.4	2	0.58	0.2	40	5	18	9	2.22	9	0.32	14	10	0.40	261	1	0.05	8	0.07	6	44	0.19	56	54
46	9700N-11550E	0.2	3.70	7	202	0.6	2	0.56	0.2	43	8	20	17	2.86	9	0.52	14	13	0.61	513	1	0.08	16	0.10	6	44	0.16	61	77
47	9700N-11600E	0.2	4.51	8	236	0.7	2	0.60	0.2	40	8	13	20	3.11	12	0.63	13	15	0.65	798	1	0.10	12	0.20	7	44	0.11	59	108
48	11650	0.2	3.11	7	182	0.6	2	0.53	0.2	46	8	16	14	2.82	10	0.60	17	12	0.66	502	1	0.07	11	0.09	7	39	0.15	51	70
49	9700N-11700E	0.2	4.06	9	241	0.7	2	0.45	0.2	39	11	16	27	3.12	7	0.76	14	14	0.81	807	1	0.07	14	0.10	5	34	0.11	61	78
51	9700N-11750E	0.2	3.73	14	193	0.8	2	0.52	0.3	40	14	43	53	3.12	6	0.54	16	19	0.95	517	1	0.06	23	0.11	6	43	0.17	82	77
52	9700N-11800E	0.2	2.99	6	160	0.8	2	0.64	0.2	49	10	25	21	2.84	5	0.50	18	12	0.70	475	1	0.07	16	0.09	4	50	0.20	69	63
53	9700N-11850E	0.2	3.92	11	186	0.7	2	0.64	0.2	54	13	32	33	3.43	6	0.65	21	14	0.99	597	1	0.07	21	0.08	5	53	0.24	92	68
54	11900	0.2	3.90	12	161	0.6	2	0.54	0.2	44	14	46	40	3.47	7	0.49	16	16	1.01	470	1	0.06	31	0.11	6	47	0.22	107	71
55	11950	0.2	4.25	9	178	0.6	2	0.39	0.2	39	12	36	34	3.56	6	0.60	14	17	0.82	853	1	0.08	23	0.19	6	45	0.20	105	86
56	12000	0.2	4.53	17	173	0.7	2	0.74	0.2	45	13	29	41	4.03	7	0.48	16	19	0.78	954	1	0.08	17	0.14	6	61	0.30	130	99
57	9700N-12050E	0.2	4.02	14	116	0.7	2	1.18	0.2	41	14	40	40	4.11	10	0.33	12	15	0.93	869	1	0.09	21	0.19	5	69	0.38	144	93
58	9700N-12150E	0.2	4.32	10	135	0.8	2	1.41	0.2	48	18	29	60	3.90	8	0.29	16	16	1.04	1065	1	0.08	22	0.14	4	70	0.34	138	97
59	12200	0.2	3.70	14	61	0.6	4	3.23	0.8	31	30	15	109	5.55	7	0.20	8	9	1.57	1229	1	0.07	26	0.07	7	115	0.46	221	97
60	12250	0.2	3.40	14	100	0.5	2	1.32	0.2	36	13	24	62	3.96	10	0.28	11	13	0.79	812	1	0.06	16	0.12	5	69	0.35	169	79
61	12300	0.6	3.96	13	111	0.7	2	1.16	0.2	39	18	33	62	3.56	15	0.44	13	14	1.08	1145	1	0.06	24	0.15	8	55	0.23	133	95
62	9700N-12350E	0.2	4.13	12	138	0.7	2	0.60	0.2	38	10	30	31	3.06	10	0.55	12	17	0.76	437	1	0.06	19	0.08	6	51	0.19	87	92
63	9700N-12400E	0.2	3.26	9	133	0.5	2	0.73	0.2	38	5	27	23	1.91	10	0.53	11	11	0.35	198	1	0.06	10	0.16	5	57	0.19	74	46
64	12450	0.2	4.02	12	147	0.7	2	0.80	0.2	47	12	32	42	3.47	9	0.38	17	16	0.86	515	1	0.07	22	0.12	7	66	0.31	111	78
65	9700N-12500E	0.2	4.44	10	130	0.6	2	0.89	0.2	38	15	20	50	3.62	13	0.33	12	16	0.95	1167	1	0.07	16	0.13	9	62	0.23	121	103
66	9900N-9000E	0.2	3.24	12	138	0.6	2	0.65	0.2	45	11	38	23	3.10	12	0.36	16	18	0.67	824	1	0.08	17	0.07	7	65	0.23	108	77
67	9900N-9050E	0.2	3.70	17	140	0.5	2	0.53	0.2	41	11	39	32	3.54	12	0.41	15	18	0.79	877	1	0.07	19	0.12	9	51	0.22	117	91
68	9900N-9100E	0.4	3.41	16	159	0.5	2	0.58	0.2	40	11	36	31	3.39	12	0.39	14	18	0.68	1563	1	0.07	18	0.17	9	53	0.20	106	90
69	9150	0.2	3.32	13	131	0.6	2	0.76	0.2	57	12	42	30	3.33	10	0.34	21	17	0.73	606	1	0.08	20	0.09	7	59	0.26	103	74
70	9200	0.4	3.84	12	131	0.6	2	0.72	0.2	44	11	42	36	3.77	11	0.38	15	22	0.77	609	1	0.08	22	0.13	8	54	0.27	124	109
71	9250	0.2	3.67	18	143	0.7	2	0.65	0.2	43	11	34	46	2.98	13	0.32	18	16	0.77	595	1	0.06	26	0.08	18	54	0.24	93	102
72	9900N-9300E	0.8	4.89	84	219	1.2	2	0.35	0.7	45	17	24	189	4.34	8	0.69	16	16	0.76	939	1	0.06	21	0.10	9	38	0.20	96	190
73	9900N-9350E	0.2	5.44	74	289	0.9	2	0.74	0.9	65	24	18	111	3.91	12	0.81	20	14	0.83	1267	1	0.08	25	0.08	9	60	0.17	85	246
74	9400	0.2	3.99	77	252	0.8	2	0.50	1.1	57	18	23	84	3.69	11	0.68	19	13	0.69	1256	1	0.06	22	0.10	10	46	0.17	86	271
75	9450	0.6	4.49	70	183	0.7	2	0.43	0.3	44	11	24	70	5.05	16	0.50	16	17	0.75	1053	3	0.07	15	0.12	11	47	0.26	102	151
76	9500	0.4	4.42	34	134	0.7	2	0.52	0.2	42	12	31	41	4.01	16	0.42	15	21	0.80	821	1	0.06	20	0.15	13	53	0.26	120	151
77	9900N-9550E	0.2	5.35	25	169	0.7	2	0.50	0.2	42	15	49	34	4.23	15	0.57	14	22	1.40	750	1	0.05	39	0.14	28	43	0.23	131	121
78	9900N-9600E	0.2	4.64	22	130	0.6	2	0.71	0.2	40	14	37	33	3.69	18	0.52	13	21	1.19	576	1	0.06	33	0.07	13	55	0.25	111	113
79	9650	0.2	3.97	20	140	0.5	2	0.64	0.2	43	9	28	20	3.45	19	0.49	14	17	0.80	520	1	0.07	16	0.07	12	58	0.26	103	124
80	9700	0.2	4.40	17	125	0.5	2	0.56	0.2	40	11	32	26	3.19	11	0.46	14	15	0.84	695	1	0.07	20	0.09	7	57	0.26	108	80
81	9900N-9750E	0.2	4.03	17	123	0.6	2	0.62	0.2	40	13	48	26	3.57	15	0.43	16	18	1.08	651	1	0.06	27	0.06	14	59	0.26	126	101

T.T. No.	SAMPLE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
82	9900N-9800E	0.2	3.73	15	121	0.8	2	0.58	0.2	43	9	39	21	3.17	[illegible]	0.38	15	18	0.69	572	1	0.07	15	0.07	13	62	0.26	106	118
83	9900N-9850E	0.2	3.74	14	121	0.5	2	0.62	0.2	41	7	28	16	2.78	20	0.46	13	14	0.64	439	1	0.07	13	0.06	11	59	0.23	98	82
84	9900	0.2	3.81	18	116	0.5	2	0.69	0.2	39	10	30	25	3.20	18	0.40	13	17	0.93	503	1	0.05	18	0.07	13	52	0.22	95	90
85	9950	0.2	4.46	73	77	0.7	2	1.83	0.2	43	23	65	50	3.96	23	0.29	12	17	1.41	708	1	0.05	65	0.06	11	73	0.31	127	102
86	10000	2.0	4.60	130	47	0.6	13	1.27	2.3	39	221	40	1616	10.19	23	0.20	9	13	0.61	2411	5	0.04	140	0.13	17	52	0.15	88	111
87	9900N-10050E	0.2	4.39	23	133	0.6	2	0.85	0.2	40	15	25	54	3.14	19	0.52	11	15	0.86	704	1	0.06	22	0.10	9	57	0.20	89	75
88	9900N-11000E	0.8	3.69	26	120	0.4	2	0.80	0.2	39	6	25	35	3.29	19	0.33	12	14	0.57	421	1	0.05	12	0.08	22	57	0.19	82	154
89	11050	0.2	3.64	20	108	0.5	2	0.95	0.2	43	9	28	29	3.07	23	0.42	13	15	0.70	660	1	0.06	17	0.09	18	71	0.24	96	113
90	11100	0.2	3.33	22	113	0.6	2	1.05	0.2	40	11	32	36	3.62	24	0.35	11	21	0.75	599	1	0.05	18	0.13	13	61	0.23	114	117
91	11150	0.2	3.03	11	88	0.4	2	0.91	0.2	39	10	30	25	2.35	17	0.24	15	19	0.76	377	1	0.06	18	0.06	9	69	0.23	86	81
92	9900N-11200E	0.2	3.43	7	143	0.7	2	0.39	0.2	32	6	15	17	2.22	8	0.57	11	10	0.45	543	1	0.06	9	0.10	5	45	0.14	71	69
93	9900N-11250E	0.2	4.13	13	184	0.6	2	0.65	0.2	38	6	15	16	2.67	13	0.66	14	14	0.54	406	1	0.08	11	0.11	5	47	0.13	65	82
94	11300	0.2	3.43	9	138	0.5	2	0.42	0.2	35	7	19	14	2.55	10	0.49	12	12	0.60	272	1	0.07	12	0.08	5	41	0.14	58	64
95	11350	0.2	4.29	12	159	0.7	2	0.39	0.2	45	9	21	31	3.12	11	0.61	16	15	0.58	520	1	0.06	16	0.12	9	40	0.17	70	82
96	11400	0.2	3.93	13	177	0.6	2	0.60	0.2	41	7	19	19	2.73	18	0.56	14	14	0.53	378	1	0.06	13	0.13	6	40	0.16	71	69
97	9900N-11450E	0.2	3.55	12	128	0.6	2	0.47	0.2	44	8	20	21	2.83	17	0.47	15	14	0.53	534	1	0.07	13	0.11	9	41	0.17	74	72
98	9900N-11500E	0.2	3.63	12	169	0.6	2	0.45	0.2	43	9	21	27	2.89	16	0.50	14	16	0.69	671	1	0.06	16	0.13	8	43	0.16	75	83
99	9900N-11550E	0.2	3.20	10	134	0.5	2	0.54	0.2	51	8	20	21	2.80	16	0.43	18	12	0.64	379	1	0.06	13	0.09	8	45	0.18	63	64
101	9900N-11600E	0.1	3.45	11	166	0.6	2	0.49	0.2	38	10	30	25	2.61	12	0.53	15	14	0.65	601	1	0.07	18	0.13	7	44	0.13	69	71
102	11700	0.2	3.54	8	151	0.7	2	0.57	0.2	43	9	25	29	2.76	11	0.49	15	15	0.72	502	1	0.08	16	0.11	6	55	0.19	74	74
103	9900N-11750E	0.2	4.27	10	194	0.7	2	0.54	0.2	45	11	37	37	3.21	10	0.56	16	18	0.88	442	1	0.08	21	0.14	7	51	0.23	83	80
104	9900N-11800E	0.2	3.85	10	180	0.6	2	0.53	0.2	42	11	29	33	3.13	10	0.56	15	16	0.82	509	1	0.06	18	0.10	6	46	0.19	82	79
105	11850	0.2	3.91	12	152	0.6	2	0.43	0.2	34	10	25	33	3.00	9	0.56	11	16	0.80	750	1	0.06	15	0.19	5	37	0.14	76	93
106	11900	0.2	3.71	9	106	0.7	2	0.84	0.2	51	13	26	53	3.29	9	0.28	17	14	0.78	710	1	0.07	20	0.12	6	59	0.31	115	71
107	12000	0.2	3.52	5	104	0.7	2	2.06	0.2	58	19	28	97	4.24	17	0.26	20	13	1.10	799	1	0.07	24	0.09	4	91	0.38	154	77
108	9900N-12050E	0.2	4.66	17	95	0.9	2	1.76	0.2	42	23	23	132	5.00	19	0.28	12	16	1.22	1693	1	0.07	22	0.18	4	79	0.43	208	100
109	9900N-12100E	0.2	4.53	15	93	0.8	2	1.69	0.2	46	21	22	134	4.71	17	0.27	14	15	1.44	1270	1	0.07	22	0.14	4	81	0.39	189	91
110	12150	0.2	3.00	10	80	0.6	2	1.23	0.2	36	11	23	59	2.95	17	0.19	10	12	0.71	811	1	0.05	15	0.22	4	54	0.26	121	71
111	12200	0.2	3.53	24	66	0.5	2	1.64	0.5	41	19	28	102	4.70	16	0.18	14	15	1.10	790	2	0.06	21	0.11	6	82	0.42	196	82
112	12250	0.2	3.83	17	87	0.9	2	1.88	0.2	41	20	27	126	4.25	13	0.22	11	12	1.22	1227	1	0.06	22	0.13	5	85	0.36	170	88
113	9900N-12300E	0.2	3.91	19	101	0.7	2	1.27	0.2	37	17	24	74	4.15	14	0.33	10	15	1.02	913	1	0.06	19	0.14	5	70	0.34	158	92
114	9900N-12350E	0.2	3.80	16	95	0.9	2	1.45	0.3	42	15	28	69	4.15	15	0.23	13	15	0.99	658	1	0.06	21	0.10	5	81	0.35	154	88
115	12400	0.2	3.76	16	101	0.5	2	1.15	0.2	39	11	25	45	4.74	12	0.25	13	12	0.87	478	1	0.06	16	0.09	6	81	0.40	179	79
116	12450	0.2	3.92	9	100	0.6	2	1.02	0.2	39	13	24	50	3.55	8	0.33	12	12	0.97	461	1	0.06	19	0.09	2	73	0.26	111	72
117	9900N-12500E	0.2	3.90	10	120	0.6	2	0.93	0.2	40	11	24	40	3.55	12	0.32	13	16	0.80	573	1	0.07	17	0.14	5	74	0.31	113	89
118	10100N-9000E	0.2	3.09	9	130	0.4	2	0.65	0.2	37	7	47	21	2.27	13	0.38	13	14	0.52	530	1	0.08	13	0.10	8	62	0.21	96	59
119	10100N-9050E	0.2	3.25	9	117	0.5	2	0.46	0.2	40	10	37	25	2.86	11	0.29	14	18	0.71	549	1	0.06	17	0.08	6	42	0.18	93	69
120	9100	0.2	2.99	10	108	0.4	2	0.45	0.2	34	7	28	22	2.34	8	0.32	12	14	0.57	298	1	0.06	17	0.07	5	47	0.19	86	58
121	9150	0.2	2.86	12	110	0.5	2	0.44	0.2	38	10	32	35	2.80	9	0.32	15	15	0.65	418	1	0.05	18	0.06	7	41	0.18	92	67
122	9200	0.2	2.88	9	111	0.6	2	0.45	0.2	37	9	30	28	2.67	7	0.29	14	13	0.61	355	1	0.05	13	0.06	4	38	0.19	89	55
123	10100N-9250E	0.2	3.63	10	136	0.5	2	0.44	0.2	38	8	34	34	2.53	9	0.38	15	16	0.69	336	1	0.07	16	0.13	6	46	0.19	90	68
124	10100N-9300E	0.2	4.25	36	148	0.5	2	0.35	0.2	33	11	29	46	3.44	5	0.44	12	24	0.63	748	1	0.12	17	0.10	6	41	0.16	106	95
125	10100N-9350E	0.4	3.47	34	140	0.5	2	0.46	0.2	37	9	37	38	3.44	8	0.35	13	16	0.59	732	1	0.07	18	0.13	6	48	0.24	105	94

T.T. No.	SAMPLE No.	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
126	10100N-9400E	0.4	3.67	57	145	0.5	2	0.43	0.2	38	9	28	56	3.36	[illegible]	0.39	13	15	0.64	463	1	0.06	16	0.08	6	41	0.20	85	94
127	9450	0.2	3.47	29	138	0.4	2	0.48	0.2	37	8	26	39	3.11	11	0.42	13	17	0.53	351	1	0.07	12	0.11	7	46	0.20	82	105
128	10100N-9500E	0.8	3.57	39	136	0.5	2	0.42	0.2	42	8	24	42	3.13	14	0.44	14	19	0.59	399	1	0.06	13	0.09	7	41	0.19	76	159
129	10100N-9550E	0.4	3.60	22	112	0.4	2	0.48	0.2	39	8	30	29	3.38	10	0.37	13	15	0.66	369	1	0.06	13	0.08	6	45	0.22	104	129
130	9600	0.2	3.85	30	121	0.4	2	0.46	0.2	44	9	36	37	4.06	11	0.37	16	19	0.73	401	1	0.06	17	0.08	10	45	0.25	116	102
131	9650	0.2	4.72	30	152	0.6	3	0.56	0.3	40	25	34	125	4.84	16	0.57	14	17	1.33	911	2	0.05	36	0.08	12	36	0.21	126	90
132	9700	0.4	3.43	15	122	0.8	2	0.68	0.2	39	13	47	43	2.82	16	0.33	13	14	0.69	834	1	0.06	28	0.16	8	50	0.20	88	62
133	10100N-9750E	0.4	4.10	14	156	0.5	2	0.50	0.2	40	10	31	27	3.28	15	0.59	14	14	0.67	921	1	0.07	15	0.10	9	53	0.22	100	92
134	10100N-9800E	0.2	4.32	15	124	0.5	2	0.56	0.2	39	13	34	30	3.76	16	0.49	12	19	1.13	535	1	0.06	25	0.06	11	49	0.25	122	88
135	9850	0.2	3.54	9	109	0.4	2	0.75	0.2	42	9	30	21	3.25	19	0.38	14	17	0.74	574	1	0.06	16	0.08	9	59	0.24	102	98
136	9900	0.6	5.41	25	152	0.7	3	0.94	0.2	41	21	37	77	4.35	17	0.55	12	17	1.17	706	1	0.05	40	0.13	13	46	0.19	104	118
137	9950	0.2	4.84	12	148	0.6	2	0.97	0.2	42	13	32	37	3.66	20	0.46	13	20	0.97	643	1	0.06	22	0.08	9	68	0.21	105	117
138	10100N-10000E	0.4	4.41	28	120	0.6	3	0.88	0.2	41	18	48	52	3.46	19	0.37	12	16	1.17	577	1	0.05	46	0.07	9	47	0.22	86	86
139	10100N-10200E	0.4	3.54	18	123	0.5	2	0.87	0.2	45	10	43	35	3.49	21	0.38	13	18	0.69	560	1	0.06	26	0.12	7	55	0.24	88	129
140	10250	0.6	3.84	11	125	0.5	2	0.53	0.2	42	8	28	17	2.66	17	0.43	13	15	0.82	459	1	0.07	15	0.07	6	50	0.17	68	165
141	10300	0.2	4.33	18	133	0.5	2	0.37	0.2	39	10	38	26	3.14	11	0.41	15	17	1.06	480	1	0.06	22	0.08	10	43	0.17	72	103
142	10350	0.4	4.19	5	131	0.7	2	0.54	0.2	40	10	35	19	2.92	12	0.40	13	17	1.06	454	1	0.06	16	0.06	8	54	0.21	78	104
143	10100N-10400E	0.4	4.18	8	131	0.5	2	0.45	0.2	33	11	36	25	3.03	9	0.45	11	14	1.26	599	1	0.05	19	0.06	9	44	0.17	81	98
144	10100N-10450E	0.2	4.31	12	123	0.5	2	0.54	0.2	33	12	39	30	3.82	9	0.43	10	15	1.25	642	1	0.05	19	0.08	8	46	0.17	102	101
145	10500	0.4	4.53	9	124	0.5	2	0.49	0.2	30	12	33	31	3.74	8	0.46	9	18	1.40	737	1	0.05	20	0.08	9	43	0.17	100	121
146	10550	0.4	4.29	7	117	0.5	2	0.71	0.2	32	11	39	28	3.49	7	0.41	10	17	1.19	526	1	0.04	18	0.07	7	60	0.20	101	99
147	10600	0.2	3.58	14	106	0.5	2	0.70	0.2	33	10	36	29	3.16	8	0.32	10	16	0.98	749	1	0.05	17	0.09	9	59	0.20	93	103
148	10100N-10650E	0.2	3.71	13	123	0.5	2	0.68	0.2	30	12	41	31	3.50	9	0.40	9	16	1.25	682	1	0.04	22	0.07	6	52	0.18	102	80
149	10100N-10700E	0.2	3.72	12	103	0.5	2	0.65	0.2	35	10	43	20	3.55	10	0.36	11	21	0.94	515	1	0.05	19	0.07	8	55	0.22	105	103
152	10100N-10750E	0.2	3.14	9	94	0.4	2	0.84	0.2	40	7	23	15	2.53	16	0.32	13	14	0.44	580	1	0.06	9	0.06	7	69	0.21	77	73
153	10800	0.2	3.36	6	76	0.4	2	0.89	0.2	35	6	17	14	2.67	13	0.37	10	13	0.42	433	1	0.05	9	0.06	5	62	0.18	68	60
154	10850	0.2	3.72	6	96	0.4	2	0.82	0.2	38	7	25	19	3.03	12	0.35	13	18	0.53	401	1	0.06	13	0.08	10	66	0.23	86	103
155	10100N-10900E	0.2	3.84	11	88	0.5	2	1.18	0.2	41	9	32	23	3.40	17	0.34	12	16	0.75	467	1	0.05	20	0.08	7	87	0.28	107	84
156	10100N-10950E	0.2	3.96	11	108	0.5	2	0.92	0.2	39	9	28	33	2.94	15	0.37	12	16	0.75	467	1	0.06	18	0.08	9	68	0.24	93	97
157	11000	0.2	3.56	13	147	0.9	2	0.96	0.2	47	15	24	50	2.91	18	0.32	19	18	0.64	2178	1	0.07	15	0.18	14	68	0.22	99	125
158	11050	0.4	3.25	20	111	0.5	2	0.85	0.2	43	10	31	34	3.51	18	0.35	13	17	0.72	437	1	0.05	19	0.11	13	60	0.24	99	119
159	11100	0.6	3.66	12	152	0.8	2	1.90	0.9	49	16	25	58	2.72	21	0.32	21	17	0.52	3607	1	0.05	16	0.37	11	65	0.13	85	98
160	10100N-11150E	0.2	3.63	9	154	0.7	2	1.19	0.2	49	9	20	23	2.79	24	0.55	17	12	0.75	474	1	0.06	12	0.19	8	66	0.17	78	66
161	10100N-11200E	0.2	4.87	12	169	0.5	2	0.29	0.2	34	10	25	24	3.42	10	0.66	13	19	0.65	335	1	0.07	16	0.10	8	40	0.11	71	93
162	11250	0.1	3.60	10	108	0.7	2	0.53	0.2	41	7	28	19	2.83	13	0.35	14	12	0.45	264	1	0.06	11	0.08	6	51	0.21	84	59
163	11300	0.2	3.76	11	135	0.5	2	0.46	0.2	37	8	23	21	3.47	12	0.45	13	16	0.55	331	1	0.06	15	0.14	6	42	0.16	79	94
164	11350	0.2	3.78	12	130	0.5	2	0.54	0.2	43	8	27	22	2.92	13	0.44	15	15	0.62	313	1	0.07	16	0.07	8	49	0.20	75	72
165	10100N-11400E	0.2	3.54	9	138	0.5	2	0.65	0.2	46	8	30	20	2.76	17	0.40	16	14	0.68	334	1	0.07	18	0.06	7	51	0.21	72	73
166	10100N-11450E	0.2	3.41	9	141	0.5	2	0.55	0.2	43	9	24	22	2.93	15	0.44	14	14	0.72	377	1	0.07	18	0.08	6	46	0.19	72	73
167	11500	0.1	3.83	12	167	0.6	2	0.48	0.2	48	8	22	23	2.86	17	0.57	16	14	0.57	585	1	0.09	14	0.14	9	52	0.19	76	71
168	11550	0.2	2.88	17	156	0.6	2	1.54	0.2	49	7	31	21	2.24	27	0.38	16	13	0.54	358	1	0.07	13	0.16	7	67	0.17	65	57
169	11600	0.2	3.19	5	113	0.4	2	0.61	0.2	44	7	23	15	2.22	15	0.31	15	13	0.56	285	1	0.07	13	0.06	8	56	0.23	67	56
170	10100N-11650E	0.2	3.71	12	119	0.5	2	0.67	0.2	46	10	29	32	3.10	15	0.34	14	15	0.65	515	1	0.07	18	0.11	7	54	0.25	94	88

T.T. No.	SA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	G p	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
171	10100N-11700E	0.2	3.71	11	107	0.5	2	1.11	0.2	42	15	40	51	3.64	13	0.30	17	15	0.83	532	1	0.07	23	0.09	7	73	0.30	125	81
172	11750	0.2	3.75	11	132	0.8	2	1.20	0.2	44	14	33	44	3.40	11	0.32	17	17	0.81	921	1	0.07	19	0.15	5	71	0.31	114	121
173	11800	0.2	3.60	11	123	0.7	2	0.93	0.2	45	14	29	63	3.26	9	0.38	16	13	0.86	508	1	0.06	20	0.10	5	56	0.27	107	75
174	11850	0.2	4.01	17	154	0.8	2	1.55	0.2	43	23	26	96	3.82	15	0.34	14	15	0.94	1580	1	0.07	21	0.21	7	69	0.28	143	101
175	10100N-11900E	0.2	3.37	15	118	0.6	2	1.75	0.2	59	19	33	96	4.04	14	0.26	21	14	1.35	842	1	0.08	27	0.08	6	86	0.37	147	73
176	10100N-11950E	0.2	3.38	16	85	0.6	2	1.19	0.2	41	18	26	104	3.47	13	0.23	12	14	1.02	1226	1	0.07	20	0.19	9	58	0.31	156	83
177	10100N-12000E	0.4	3.19	13	83	0.6	2	1.13	0.2	35	12	22	55	2.93	15	0.25	10	11	0.73	1162	1	0.06	15	0.20	7	60	0.26	123	70
178	10300N-9000E	0.4	2.94	14	108	0.4	2	0.49	0.2	39	8	39	21	2.87	14	0.32	14	17	0.56	349	1	0.07	13	0.08	9	54	0.21	103	64
179	9050	0.2	3.13	9	106	0.4	2	0.57	0.2	45	7	40	19	2.49	17	0.32	16	15	0.59	317	1	0.07	13	0.06	10	58	0.24	95	58
180	10300N-9100E	0.2	2.96	12	105	0.5	2	0.54	0.2	44	15	39	31	2.57	16	0.30	14	12	0.54	1055	1	0.06	13	0.14	10	50	0.19	87	56
181	10300N-9150E	0.4	4.20	21	147	0.5	2	0.99	0.2	43	14	41	40	3.07	12	0.34	17	27	0.70	983	1	0.08	22	0.13	7	65	0.21	107	122
182	9200	0.2	3.63	16	128	0.8	2	0.46	0.2	33	9	45	31	2.81	3	0.38	12	17	0.71	354	1	0.06	16	0.05	5	44	0.19	94	74
183	9250	0.4	3.81	12	126	0.6	2	0.49	0.2	35	8	34	24	3.23	7	0.38	13	19	0.67	384	1	0.07	14	0.07	6	51	0.23	108	80
184	9300	0.6	3.29	14	115	0.4	2	0.54	0.2	38	8	32	20	2.97	7	0.33	14	19	0.55	332	1	0.07	12	0.08	6	54	0.23	92	79
185	10300N-9350E	0.4	4.33	30	139	0.5	2	0.57	0.2	39	9	29	34	3.38	5	0.39	14	20	0.66	413	1	0.07	17	0.07	7	52	0.25	96	109
186	10300N-9400E	0.6	4.23	55	152	0.6	2	0.50	0.2	43	9	34	75	3.75	8	0.44	15	17	0.67	404	1	0.07	15	0.10	7	45	0.22	86	136
187	9450	0.4	3.97	34	148	0.6	2	0.55	0.2	49	8	33	31	3.39	11	0.41	18	20	0.58	429	1	0.08	15	0.08	8	58	0.25	94	118
188	9500	0.2	3.89	22	130	0.5	2	0.59	0.2	47	9	34	27	2.89	12	0.37	16	20	0.64	480	1	0.08	16	0.07	8	58	0.24	87	158
189	9550	0.4	4.02	31	137	0.5	2	0.60	0.2	50	11	34	36	3.31	15	0.39	18	21	0.69	492	1	0.07	18	0.07	10	54	0.25	94	136
190	10300N-10250E	0.4	3.79	20	103	0.5	2	0.66	0.2	42	9	36	23	3.68	18	0.34	13	19	0.68	402	1	0.06	19	0.11	10	51	0.25	93	98
191	10300N-10300E	0.2	3.74	15	120	0.4	2	0.38	0.2	31	10	37	22	3.20	9	0.38	14	15	0.98	466	1	0.05	19	0.07	8	41	0.17	80	98
192	10350	0.4	4.03	12	135	0.7	2	0.38	0.2	33	10	35	20	3.38	10	0.45	12	16	1.24	535	1	0.05	19	0.07	6	39	0.18	81	108
193	10400	0.2	4.00	13	108	0.5	2	0.49	0.2	34	9	32	19	3.08	9	0.36	12	14	1.00	487	1	0.06	15	0.07	6	45	0.18	82	99
194	10450	0.2	3.82	11	102	0.4	2	0.54	0.2	34	9	35	18	3.21	11	0.35	12	17	0.88	516	1	0.06	13	0.06	8	50	0.19	94	87
195	10300N-10500E	0.4	3.70	11	123	0.5	2	0.55	0.2	35	9	28	20	2.73	15	0.42	12	14	1.04	508	1	0.06	15	0.04	8	52	0.18	83	84
196	10300N-10550E	0.4	3.84	10	119	0.6	2	0.72	0.2	38	11	32	23	3.15	14	0.39	13	18	1.05	557	1	0.06	17	0.06	8	65	0.23	100	100
197	10600	0.2	4.02	13	119	0.6	2	0.72	0.2	38	10	38	23	3.15	14	0.37	13	18	0.96	601	1	0.06	17	0.09	9	66	0.22	96	90
198	10650	0.2	4.30	15	114	0.5	2	0.66	0.2	36	12	38	31	3.89	11	0.39	12	20	1.12	550	1	0.06	22	0.07	7	55	0.23	109	87
199	10300N-10700E	0.2	3.55	18	83	0.4	2	0.61	0.2	36	11	29	36	3.86	15	0.33	12	18	0.78	383	1	0.06	13	0.12	8	50	0.24	120	68
201	10300N-10750E	0.2	3.43	15	99	0.5	2	0.80	0.2	35	9	27	20	2.97	9	0.33	15	18	0.49	511	1	0.06	14	0.07	7	73	0.23	90	92
202	10300N-10800E	0.2	3.20	9	66	0.5	2	0.73	0.2	29	4	16	11	2.21	5	0.29	10	12	0.30	307	1	0.04	7	0.07	3	53	0.17	55	53
203	10850	0.2	3.44	13	99	0.4	2	0.85	0.2	34	7	29	18	3.22	6	0.34	13	16	0.53	477	1	0.07	13	0.08	4	71	0.28	102	84
204	10900	0.2	3.36	14	84	0.4	2	0.80	0.2	28	9	22	25	3.75	3	0.32	10	15	0.66	541	1	0.05	12	0.08	5	63	0.25	138	87
205	10950	0.2	3.11	13	71	0.4	2	0.89	0.2	30	5	22	13	2.65	4	0.26	10	10	0.39	314	1	0.05	8	0.07	4	65	0.21	85	57
206	10300N-11000E	0.2	3.44	15	135	0.4	2	0.91	0.2	37	8	29	21	2.92	7	0.36	14	15	0.57	474	1	0.08	12	0.08	5	78	0.28	105	72
207	10300N-11050E	0.2	3.70	14	106	0.5	2	0.92	0.2	40	9	31	24	3.48	10	0.31	13	17	0.67	413	1	0.07	17	0.10	5	72	0.28	104	88
208	11100	0.2	3.91	14	112	0.5	2	0.66	0.2	35	8	32	36	3.48	9	0.33	13	18	0.51	320	1	0.06	18	0.13	7	56	0.24	100	121
209	11150	0.2	3.16	14	105	0.4	2	0.84	0.2	42	8	28	23	3.22	12	0.29	14	15	0.68	357	1	0.06	16	0.09	6	63	0.24	92	84
210	11200	0.2	3.47	12	101	0.4	2	0.73	0.2	39	7	27	20	3.03	11	0.27	14	15	0.59	319	1	0.05	14	0.08	6	58	0.23	89	80
211	10300N-11250E	0.2	4.20	7	136	0.7	2	0.85	0.2	44	10	34	34	2.68	15	0.27	18	16	0.61	354	1	0.06	22	0.08	9	73	0.26	87	81
212	10300N-11300E	0.2	3.78	9	96	0.6	2	0.77	0.2	38	9	31	28	3.78	9	0.22	14	15	0.64	343	1	0.06	17	0.10	5	57	0.28	110	72
213	11350	0.2	3.81	5	115	0.6	2	1.15	0.2	41	10	29	33	2.80	11	0.21	14	15	0.69	366	1	0.07	20	0.07	5	81	0.29	92	70
214	11400	0.2	3.05	6	86	0.5	2	0.94	0.2	43	8	33	26	2.94	9	0.20	15	11	0.59	348	1	0.06	16	0.07	4	66	0.27	88	72
215	10300N-11450E	0.2	3.28	9	102	0.5	2	1.06	0.2	45	10	33	31	3.61	11	0.25	16	14	0.65	421	1	0.07	17	0.08	5	74	0.31	114	80

T.T. No.	SAM	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	G pp	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
216	10300N-11500E	0.2	2.84	8	87	0.4	2	1.14	0.2	45	7	26	19	2.66	13	0.22	16	14	0.54	357	1	0.07	12	0.06	5	79	0.30	100	62
217	10300N-11550E	0.2	3.25	9	98	0.5	2	1.22	0.2	41	11	25	33	3.31	14	0.32	15	19	0.66	561	1	0.07	15	0.13	5	77	0.29	116	84
218	11600	0.2	3.96	11	84	0.6	2	0.81	0.2	36	11	30	49	3.13	9	0.23	12	13	0.61	774	1	0.06	15	0.19	4	54	0.24	97	87
219	11650	0.2	3.10	11	83	0.5	2	1.01	0.2	48	9	32	31	3.34	14	0.22	17	15	0.64	421	1	0.06	16	0.10	7	72	0.29	103	82
220	11700	0.2	3.36	14	112	0.5	2	0.78	0.2	41	10	24	37	3.15	13	0.29	15	16	0.65	482	1	0.06	16	0.10	7	60	0.24	93	96
221	10300N-11750E	0.2	3.42	20	95	0.5	2	1.20	0.2	49	14	39	64	3.80	13	0.23	20	15	0.87	569	1	0.07	23	0.08	10	81	0.32	126	85
222	10300N-11800E	0.2	3.12	14	95	0.7	2	1.31	0.2	50	13	41	80	3.54	11	0.24	18	12	0.85	673	1	0.07	20	0.11	6	79	0.31	122	74
223	11850	0.2	4.02	20	82	0.8	2	1.84	0.3	40	23	35	113	4.61	12	0.29	12	17	1.63	1287	1	0.05	30	0.17	5	83	0.38	172	88
224	10300N-11900E	0.2	3.17	15	131	0.6	2	1.65	0.2	55	11	27	56	3.40	15	0.32	20	9	0.68	643	1	0.05	15	0.07	9	116	0.29	102	58
225	10500N-9000E	0.2	3.75	13	106	0.5	2	0.92	0.2	38	15	150	42	3.31	9	0.27	14	17	1.44	426	1	0.07	58	0.06	6	54	0.23	105	66
226	10500N-9050E	0.4	3.78	26	137	0.6	2	1.03	0.2	48	11	70	44	3.07	11	0.30	26	19	0.92	478	1	0.07	30	0.06	6	65	0.22	101	84
227	10500N-9100E	0.2	3.22	8	98	0.4	2	0.62	0.2	39	8	43	20	2.91	8	0.30	14	17	0.69	346	1	0.06	15	0.06	7	56	0.24	102	71
228	9150	0.4	3.22	15	103	0.4	2	0.53	0.2	36	8	39	26	3.42	11	0.28	12	19	0.68	314	1	0.06	16	0.09	6	46	0.20	102	70
229	9200	0.2	3.18	10	95	0.4	2	0.51	0.2	40	8	34	28	2.75	12	0.21	13	15	0.67	339	1	0.06	15	0.07	6	45	0.21	92	60
230	9250	0.2	3.01	10	90	0.3	2	0.50	0.2	39	6	31	18	2.19	11	0.19	13	14	0.47	289	1	0.07	11	0.05	8	50	0.21	79	58
231	10500N-9300E	0.2	3.30	22	107	0.5	2	0.53	0.2	41	10	38	31	2.79	10	0.32	18	17	0.55	391	1	0.07	16	0.08	8	54	0.20	88	94
232	10500N-9350E	0.6	3.85	19	111	0.7	2	0.51	0.2	43	8	29	30	2.51	8	0.31	16	17	0.52	305	1	0.08	14	0.09	6	50	0.23	77	84
233	9400	0.2	4.37	94	157	0.7	2	0.37	0.2	39	11	26	119	3.78	8	0.50	13	14	0.71	426	1	0.06	15	0.10	7	32	0.18	68	104
234	9450	0.2	3.91	25	127	0.5	2	0.54	0.2	42	8	36	29	3.07	12	0.36	15	19	0.63	385	1	0.08	14	0.07	11	59	0.25	96	88
235	9500	0.2	3.84	34	126	0.5	2	0.59	0.2	46	11	45	38	3.32	14	0.39	16	17	0.64	441	1	0.07	18	0.08	8	51	0.23	81	137
236	10500N-9550E	0.2	3.57	22	110	0.5	2	0.59	0.2	50	9	33	23	2.93	18	0.33	17	19	0.53	395	1	0.08	13	0.08	9	57	0.25	87	116
237	10500N-10150E	0.4	3.79	26	92	0.5	3	0.82	0.2	47	10	40	31	3.68	21	0.31	15	18	0.65	323	1	0.06	23	0.08	9	55	0.29	106	83
238	10200	0.4	3.79	30	97	0.5	2	0.85	0.2	44	11	44	36	3.93	21	0.28	14	20	0.77	399	1	0.07	26	0.09	11	56	0.29	112	90
239	10250	0.2	3.76	21	104	0.5	2	0.68	0.2	48	10	38	28	3.58	22	0.34	15	18	0.67	385	1	0.08	20	0.08	11	55	0.25	95	101
240	10300	0.2	3.37	20	84	0.4	2	0.75	0.2	39	8	35	19	3.14	18	0.22	12	15	0.71	411	1	0.06	19	0.06	8	51	0.23	87	75
241	10500N-10350E	0.2	3.86	16	127	0.4	2	0.53	0.2	34	11	37	24	3.35	10	0.42	15	16	0.97	565	1	0.06	20	0.07	8	51	0.20	93	91
242	10500N-10400E	0.2	3.53	12	102	0.5	2	0.46	0.2	28	9	38	19	3.42	6	0.36	10	16	0.93	535	1	0.05	15	0.06	5	43	0.18	95	89
243	10450	0.1	3.26	9	97	0.4	2	0.58	0.2	32	7	32	14	2.94	8	0.28	11	11	0.65	519	1	0.06	11	0.06	7	54	0.20	99	74
244	10500	0.2	3.91	7	123	0.4	2	0.61	0.2	34	10	32	21	2.98	9	0.42	12	15	1.08	556	1	0.06	16	0.06	6	56	0.20	93	97
245	10550	0.2	3.47	10	119	0.4	2	0.90	0.2	40	11	34	17	3.12	17	0.30	12	18	1.03	606	1	0.05	17	0.04	8	70	0.20	103	94
246	10500N-10600E	0.2	3.91	14	104	0.5	2	0.74	0.2	38	11	38	22	3.48	17	0.34	12	20	1.04	526	1	0.05	20	0.09	11	62	0.23	104	94
247	10500N-10650E	0.1	3.56	11	100	0.5	2	0.70	0.2	39	10	33	21	3.13	14	0.36	13	17	0.91	603	1	0.06	18	0.06	11	59	0.22	91	80
248	10700	0.1	3.20	13	74	0.4	2	0.83	0.2	41	6	25	12	2.49	19	0.25	13	13	0.51	346	1	0.06	10	0.04	11	68	0.22	85	57
249	10500N-10750E	0.2	3.59	12	91	0.4	2	0.72	0.2	45	7	23	15	2.81	22	0.33	14	17	0.51	351	1	0.06	11	0.08	11	60	0.23	80	68
251	10500N-10800E	0.1	3.38	15	85	0.3	2	0.84	0.2	38	6	26	17	2.95	14	0.31	16	16	0.38	368	1	0.06	11	0.07	8	71	0.23	85	65
252	10500N-10850E	0.1	4.05	16	109	0.7	2	0.99	0.2	40	11	37	40	3.28	11	0.41	14	14	0.80	539	1	0.05	22	0.10	8	69	0.23	90	84
253	10500N-10900E	0.2	3.32	18	90	0.4	2	0.79	0.2	36	7	27	19	3.16	12	0.29	12	12	0.48	451	1	0.07	11	0.08	5	63	0.26	108	67
254	10950	0.2	3.19	13	96	0.4	2	1.14	0.2	38	8	32	19	2.90	13	0.31	13	15	0.65	382	1	0.05	16	0.06	6	74	0.25	100	68
255	11000	0.2	4.42	31	139	0.7	2	0.90	0.2	43	13	27	35	3.64	11	0.32	16	21	0.79	544	1	0.07	20	0.07	7	66	0.24	98	101
256	11050	0.1	3.64	20	116	0.6	2	0.88	0.2	44	10	26	32	3.47	14	0.35	14	15	0.73	401	1	0.07	18	0.07	8	63	0.24	87	82
257	10500N-11100E	0.1	4.16	39	181	0.8	2	1.34	4.1	48	14	30	60	3.32	21	0.30	23	30	0.70	1294	1	0.08	19	0.17	12	66	0.21	112	663
258	10500N-11150E	0.1	3.73	30	127	0.5	2	0.82	0.4	43	12	24	23	2.77	19	0.32	14	29	0.61	895	1	0.08	15	0.06	9	64	0.22	89	273
259	10500N-11200E	0.1	3.39	21	114	0.4	2	0.70	0.2	46	7	24	17	2.77	21	0.39	15	13	0.53	365	1	0.08	12	0.08	8	64	0.22	88	85

T.T. No.	SAMPLE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
260	10500N-112[illegible]	0.2	3.27	22	111	0.4	2	0.79	0.2	45	9	22	21	2.90	[illegible]	.33	14	14	0.62	683	1	0.08	13	0.07	9	71	0.22	93	89
261	11300	0.2	3.62	36	237	0.5	2	1.52	0.4	41	14	34	40	3.02	18	0.38	14	27	0.79	777	3	0.06	21	0.08	11	87	0.21	127	103
262	10500N-11350E	0.2	3.87	15	134	0.7	2	1.05	0.2	42	13	28	35	3.58	17	0.35	13	21	0.87	874	1	0.07	18	0.10	12	87	0.27	119	113
263	10500N-11400E	0.1	3.53	17	100	0.8	2	1.09	0.2	43	11	34	32	3.41	12	0.27	15	17	0.76	900	1	0.07	20	0.11	8	83	0.31	111	92
264	11450	0.1	3.36	15	93	0.5	2	1.36	0.2	45	13	35	28	3.11	15	0.26	16	19	0.82	683	1	0.09	24	0.09	9	86	0.34	111	86
265	11500	0.1	2.87	15	96	0.6	2	1.35	0.2	61	13	38	39	3.28	16	0.24	20	11	0.82	555	1	0.07	26	0.08	7	82	0.31	108	62
266	11550	0.2	3.72	22	98	0.6	2	1.39	0.2	47	16	45	42	3.73	15	0.28	16	18	0.96	606	1	0.09	33	0.09	8	78	0.35	129	82
267	10500N-11600E	0.2	3.82	22	131	0.9	2	1.77	0.2	46	21	35	64	3.95	16	0.24	14	14	1.21	1922	1	0.08	37	0.16	10	72	0.33	132	91
268	10500N-11650E	0.1	4.11	24	131	0.7	2	1.28	0.2	45	17	43	56	4.52	17	0.31	15	22	1.10	953	1	0.08	30	0.18	10	80	0.37	139	123
269	11700	0.1	3.42	19	191	0.7	2	1.31	0.2	40	21	29	71	3.70	16	0.29	13	16	0.80	1840	1	0.07	21	0.22	21	74	0.28	123	113
270	11750	0.1	3.16	18	310	0.6	2	2.14	0.2	44	21	27	93	3.40	17	0.24	14	15	0.86	1800	1	0.07	19	0.26	12	102	0.23	114	126
271	11800	0.1	2.79	25	119	0.3	2	2.43	0.2	30	19	16	75	3.95	10	0.21	10	9	1.01	1194	1	0.06	15	0.14	7	95	0.26	143	71
272	10500N-11850E	0.1	2.99	12	117	0.7	2	1.43	0.2	44	15	30	59	3.61	6	0.23	16	12	0.78	883	1	0.06	19	0.17	6	79	0.31	127	85
273	10500N-11900E	0.2	2.45	23	115	0.6	2	1.36	0.2	29	15	19	51	3.15	6	0.24	9	11	0.54	1379	1	0.05	11	0.29	5	66	0.26	132	75
274	10500N-11950E	0.2	3.33	17	153	0.6	2	1.33	0.2	31	20	41	33	4.18	5	0.34	11	18	1.01	2158	1	0.08	20	0.27	7	86	0.35	130	90

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

DATE RECEIVED: AUG 1 1990

DATE REPORT MAILED: Aug 4/90

GEOCHEMICAL ANALYSIS CERTIFICATE

Noranda Exploration Co. Ltd. PROJECT 9007-055 123 FILE # 90-3054 Page 1

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

SAMPLE#	AU* ppb
9700N 9000E	7
9700N 9050E	6
9700N 9100E	7
9700N 9150E	4
9700N 9200E	6
9700N 9250E	9
9700N 9300E	20
9700N 9350E	7
9700N 9400E	38
9700N 9550E	15
9700N 9600E	6
9700N 9650E	16
9700N 9700E	16
9700N 9750E	19
9700N 9800E	2
9700N 9850E	5
9700N 9900E	23
9700N 9950E	6
9700N 10000E	4
9700N 10300E	75
9700N 10350E	38
9700N 10400E	25
9700N 10450E	33
9700N 10500E	12
9700N 10550E	37
9700N 10600E	15
9700N 10650E	7
9700N 10700E	7
9700N 10750E	2
9700N 10800E	7
9700N 10850E	16
9700N 10900E	16
9700N 10950E	3
9700N 11000E	7
9700N 11050E	10
9700N 11100E	20
STANDARD AU-S	48

- SAMPLE TYPE: Soil Pulp AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

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

SAMPLE#	AU* ppb
9700N 11150E	5
9700N 11200E	2
9700N 11250E	2
9700N 11300E	13
9700N 11350E	31
9700N 11400E	10
9700N 11450E	12
9700N 11500E	2
9700N 11550E	4
9700N 11600E	2
9700N 11650E	16
9700N 11700E	5
9700N 11750E	6
9700N 11800E	7
9700N 11850E	4
9700N 11900E	8
9700N 11950E	6
9700N 12000E	43
9700N 12050E	14
9700N 12150E	2
9700N 12200E	13
9700N 12250E	2
9700N 12300E	2
9700N 12350E	3
9700N 12400E	4
9700N 12450E	7
9700N 12500E	6
9900N 9000E	5
9900N 9050E	3
9900N 9100E	4
9900N 9150E	3
9900N 9200E	2
9900N 9250E	7
9900N 9300E	14
9900N 9350E	28
9900N 9400E	9
STANDARD AU-S	55

SAMPLE#	AU* ppb
9900N 9450E	3
9900N 9500E	11
9900N 9550E	106
9900N 9600E	18
9900N 9650E	4
9900N 9700E	12
9900N 9750E	7
9900N 9800E	5
9900N 9850E	8
9900N 9900E	6
9900N 9950E	46
9900N 10000E	410
9900N 10050E	48
9900N 11000E	52
9900N 11050E	6
9900N 11100E	13
9900N 11150E	4
9900N 11200E	3
9900N 11250E	6
9900N 11300E	6
9900N 11350E	6
9900N 11400E	7
9900N 11450E	7
9900N 11500E	3
9900N 11550E	9
9900N 11600E	4
9900N 11700E	42
9900N 11750E	8
9900N 11800E	75
9900N 11850E	5
9900N 11900E	4
9900N 12000E	5
9900N 12050E	6
9900N 12100E	4
9900N 12150E	6
9900N 12200E	4
STANDARD AU-S	51

SAMPLE#	AU* ppb
9900N 12250E	16
9900N 12300E	3
9900N 12350E	9
9900N 12400E	3
9900N 12450E	2
9900N 12500E	3
10100N 9000E	9
10100N 9050E	2
10100N 9100E	1
10100N 9150E	3
10100N 9200E	2
10100N 9250E	3
10100N 9300E	13
10100N 9350E	1
10100N 9400E	1
10100N 9450E	1
10100N 9500E	10
10100N 9550E	8
10100N 9600E	1
10100N 9650E	1
10100N 9700E	1
10100N 9750E	5
10100N 9800E	4
10100N 9850E	5
10100N 9900E	7
10100N 9950E	4
10100N 10000E	14
10100N 10200E	5
10100N 10250E	2
10100N 10300E	2
10100N 10350E	1
10100N 10400E	1
10100N 10450E	3
10100N 10500E	1
10100N 10550E	9
10100N 10600E	5
STANDARD AU-S	55

SAMPLE#	AU* ppb
10100N 10650E	10
10100N 10700E	4
10100N 10750E	4
10100N 10800E	18
10100N 10850E	12
10100N 10900E	5
10100N 10950E	4
10100N 11000E	2
10100N 11050E	15
10100N 11100E	6
10100N 11150E	10
10100N 11200E	3
10100N 11250E	4
10100N 11300E	5
10100N 11350E	37
10100N 11400E	9
10100N 11450E	3
10100N 11500E	7
10100N 11550E	5
10100N 11600E	2
10100N 11650E	6
10100N 11700E	7
10100N 11750E	30
10100N 11800E	7
10100N 11850E	8
10100N 11900E	4
10100N 11950E	3
10100N 12000E	3
10300N 9000E	2
10300N 9050E	2
10300N 9100E	4
10300N 9150E	3
10300N 9200E	2
10300N 9250E	5
10300N 9300E	9
10300N 9350E	4
STANDARD AU-S	50

SAMPLE#	AU* ppb
10300N 9400E	12
10300N 9450E	6
10300N 9500E	3
10300N 9550E	3
10300N 10250E	25
10300N 10300E	40
10300N 10350E	17
10300N 10400E	7
10300N 10450E	8
10300N 10500E	10
10300N 10550E	6
10300N 10600E	16
10300N 10650E	13
10300N 10700E	6
10300N 10750E	9
10300N 10800E	4
10300N 10850E	8
10300N 10900E	5
10300N 10950E	4
10300N 11000E	4
10300N 11050E	13
10300N 11100E	4
10300N 11150E	5
10300N 11200E	5
10300N 11250E	3
10300N 11300E	7
10300N 11350E	5
10300N 11400E	6
10300N 11450E	3
10300N 11500E	5
10300N 11550E	20
10300N 11600E	3
10300N 11650E	10
10300N 11700E	11
10300N 11750E	7
10300N 11800E	6
STANDARD AU-S	52

SAMPLE#	AU* ppb
10300N 11850E	6
10300N 11900E	2
10500N 9000E	6
10500N 9050E	2
10500N 9100E	2
10500N 9150E	1
10500N 9200E	2
10500N 9250E	7
10500N 9300E	9
10500N 9350E	5
10500N 9400E	10
10500N 9450E	2
10500N 9500E	5
10500N 9550E	10
10500N 10150E	11
10500N 10200E	16
10500N 10250E	8
10500N 10300E	10
10500N 10350E	6
10500N 10400E	23
10500N 10450E	9
10500N 10500E	3
10500N 10550E	1
10500N 10600E	4
10500N 10650E	10
10500N 10700E	2
10500N 10750E	13
10500N 10800E	22
10500N 10850E	5
10500N 10900E	38
10500N 10950E	6
10500N 11000E	4
10500N 11050E	15
10500N 11100E	2
10500N 11150E	6
10500N 11200E	48
STANDARD AU-S	55

SAMPLE#	AU* ppb
10500N 11250E	4
10500N 11300E	1
10500N 11350E	3
10500N 11400E	7
10500N 11450E	2
10500N 11500E	4
10500N 11550E	1
10500N 11600E	1
10500N 11650E	18
10500N 11700E	11
10500N 11750E	6
10500N 11800E	2
10500N 11850E	6
10500N 11900E	1
10500N 11950E	3
STANDARD AU-S	54

NORANDA VANCOUVER LABORATORY
Geochemical Analysis

Project Name & No.: NEWMAC - 123 Geol.: J.R. Date rec'd: AUGUST 09 LAB CODE: 9008-034
Material: 368 SOILS Sheet: 1 of 9 Date compl: AUGUST 24
Remarks:

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 HClO4/HNO3 (4:1) at 203 °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, Ga, La, Li are rarely dissolved completely from geological materials with acid dissolution methods.

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	9900N-10300E	45	0.2	4.07	14	109	0.4	2	0.71	0.2	38	7	27	16	3.03	0.38	12	20	0.71	452	1	0.07	15	0.09	6	58	0.23	79	132
3	10350	5	0.2	4.19	17	139	0.4	2	0.58	0.2	36	9	29	17	3.33	0.46	12	20	0.96	530	1	0.07	16	0.09	6	56	0.21	88	111
4	10400	5	0.2	3.89	17	141	0.5	2	0.45	0.2	34	9	41	29	3.20	0.32	11	12	0.75	627	1	0.06	14	0.08	10	47	0.17	88	85
5	10450	5	0.2	4.39	14	124	0.5	2	0.46	0.2	31	11	31	29	3.45	0.43	10	16	1.22	638	1	0.05	19	0.08	10	43	0.17	90	128
6	9900N-10500E	5	0.2	4.53	13	175	0.3	2	0.46	0.2	37	8	21	14	2.68	0.52	12	16	0.70	545	1	0.04	9	0.06	9	45	0.15	81	91
7	9900N-10550E	5	0.2	3.06	18	100	0.3	2	0.71	0.2	38	4	25	13	1.76	0.27	12	10	0.40	274	1	0.07	7	0.04	10	72	0.23	80	44
8	10600	5	0.2	4.28	15	130	0.5	2	0.76	0.2	33	12	35	31	3.52	0.44	9	18	1.30	574	1	0.05	19	0.06	15	68	0.20	106	96
9	10650	70	0.2	4.07	16	127	0.5	2	0.65	0.4	34	12	40	29	3.63	0.42	10	19	1.07	626	1	0.05	19	0.08	11	59	0.21	114	95
10	10700	5	0.2	3.84	15	120	0.5	2	0.66	0.2	34	9	32	28	3.22	0.42	10	16	0.96	521	1	0.05	17	0.07	9	59	0.20	89	82
11	9900N-10750E	5	0.2	3.74	23	124	0.6	2	0.63	0.2	34	8	23	23	2.92	0.40	12	16	0.70	429	1	0.05	12	0.06	8	58	0.20	81	74
12	9900N-10800E	5	0.2	3.77	16	122	0.5	2	0.69	0.2	38	7	18	19	3.37	0.41	12	17	0.55	396	1	0.07	10	0.07	5	66	0.23	90	87
13	10850	5	0.2	3.46	20	87	0.4	2	1.01	0.2	37	6	20	14	2.94	0.32	11	13	0.46	408	1	0.06	9	0.06	4	79	0.24	90	65
14	10900	5	0.2	4.03	18	104	0.4	2	0.95	0.2	42	7	26	17	2.83	0.39	13	17	0.59	447	1	0.07	12	0.07	5	79	0.26	89	115
15	9900N-10950E	5	0.2	4.10	24	128	0.5	2	0.94	0.2	39	10	27	30	3.48	0.45	12	19	0.72	738	1	0.07	15	0.09	8	79	0.26	107	108
16	10100N-10050E	15	0.2	4.54	22	132	0.6	2	1.96	0.2	43	17	56	26	3.33	0.30	12	19	1.07	1152	1	0.07	47	0.09	7	74	0.36	115	113
17	10100N-10100E	35	0.2	3.70	23	101	0.4	2	1.02	0.2	39	11	57	23	3.46	0.39	11	22	0.76	426	1	0.06	33	0.10	9	65	0.27	101	132
18	10150	10	0.2	4.67	37	146	0.5	2	0.85	0.4	36	12	46	41	4.50	0.44	11	21	1.00	587	1	0.06	35	0.11	10	57	0.26	115	127
19	10100N-10200E	5	0.2	3.93	23	131	0.4	2	0.69	0.2	46	8	25	28	3.23	0.53	14	15	0.63	431	4	0.10	13	0.09	5	69	0.22	94	97
20	10300N-9600E	5	0.2	4.06	25	146	0.4	2	0.50	0.2	40	8	37	40	3.55	0.41	14	19	0.68	358	1	0.07	18	0.08	8	47	0.21	100	108
21	10300N-9650E	5	0.2	4.62	102	133	0.7	3	0.61	0.6	39	14	32	158	5.13	0.37	13	20	0.91	537	6	0.06	21	0.09	8	47	0.23	129	118
22	10300N-9700E	5	0.2	4.62	71	130	0.5	2	0.50	0.2	33	10	21	166	4.14	0.39	12	15	0.65	333	7	0.06	15	0.07	8	40	0.19	104	81
23	9750	10	0.4	4.44	48	130	0.5	2	0.62	0.5	32	12	33	252	4.65	0.42	10	20	0.91	657	3	0.05	22	0.11	8	43	0.25	144	93
24	9800	60	0.4	5.70	136	194	0.9	2	0.85	1.3	40	82	44	2426	5.35	0.57	13	22	1.64	1099	9	0.05	60	0.09	10	48	0.20	137	115
25	9850	5	0.2	4.29	25	144	0.5	2	0.75	0.2	43	14	31	66	3.82	0.50	15	19	0.97	523	1	0.06	24	0.05	12	56	0.24	105	97
26	10300N-9900E	5	0.2	3.71	17	99	0.4	2	0.91	0.2	39	8	32	27	2.97	0.34	12	15	0.56	312	1	0.06	14	0.07	8	66	0.26	96	82
27	10300N-9950E	5	0.2	3.60	15	128	0.4	2	0.76	0.2	40	7	29	20	2.67	0.36	13	13	0.63	517	1	0.07	14	0.06	6	66	0.23	84	77
28	10000	15	0.2	4.00	17	117	0.4	2	0.89	0.2	37	9	36	24	3.23	0.38	11	19	0.82	488	1	0.06	23	0.06	8	61	0.23	92	84
29	10050	40	0.2	4.03	30	104	0.4	3	0.88	0.2	35	12	56	38	3.76	0.35	10	19	0.97	515	1	0.05	38	0.10	8	51	0.25	98	76
30	10100	5	0.2	3.48	13	116	0.4	2	0.86	0.2	39	8	34	21	3.24	0.31	12	16	0.61	562	1	0.07	16	0.06	9	66	0.28	105	105
31	10300N-10150E	45	0.8	3.94	27	104	0.6	2	0.83	0.2	38	10	45	30	3.47	0.33	13	19	0.75	432	1	0.06	29	0.10	9	56	0.25	93	113
32	10300N-10200E	10	0.2	3.31	15	99	0.4	2	0.67	0.2	34	6	27	20	3.04	0.35	12	11	0.52	382	1	0.07	13	0.10	7	54	0.22	86	72
33	10500N-9600E	15	0.2	4.19	24	143	0.6	2	0.64	0.6	40	12	38	41	3.89	0.41	14	19	0.86	816	1	0.06	22	0.10	16	50	0.23	111	213
34	9650	5	0.2	3.71	16	152	0.5	2	0.89	0.3	46	13	34	30	3.24	0.35	16	20	0.62	1867	1	0.07	15	0.10	12	69	0.25	110	177
35	9700	5	0.2	3.32	13	96	0.4	2	0.65	0.2	44	7	64	20	2.79	0.29	16	16	0.59	310	1	0.08	15	0.05	9	63	0.28	100	73
36	10500N-9750E	5	0.2	4.44	40	160	0.5	2	0.46	0.2	38	8	55	54	4.25	0.52	14	19	0.73	494	1	0.06	20	0.12	12	41	0.23	94	144

T.T. No.	SAMPLE	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
37	10500N-9[illegible]E	5	2.2	5.45	128	177	0.7	3	0.91	1.3	37	24	33	1088	3.67	0.46	10	19	1.14	678	12	0.04	31	0.10	11	42	0.19	125	[illegible]
38	9850	100	1.0	4.70	19	104	0.6	2	0.62	0.2	39	12	35	1110	4.41	0.31	13	17	0.66	464	13	0.07	22	0.10	10	54	0.23	101	72
39	9900	60	0.8	4.75	43	102	0.6	2	0.68	0.4	37	14	66	698	4.38	0.36	12	20	1.24	362	2	0.06	56	0.07	8	49	0.25	113	77
40	9950	35	0.2	3.93	21	108	0.5	2	0.74	0.2	35	11	37	52	3.65	0.32	12	18	0.75	449	1	0.06	22	0.08	9	56	0.27	111	75
41	10500N-10000E	5	0.2	3.73	16	117	0.6	2	0.73	0.2	39	10	29	35	2.94	0.35	14	17	0.61	452	1	0.07	17	0.09	5	60	0.26	93	84
42	10500N-10050E	5	0.2	4.06	20	111	0.5	2	0.75	0.4	41	11	43	38	4.01	0.36	13	19	0.85	399	1	0.06	28	0.07	6	54	0.27	110	91
43	10500N-10100E	5	0.4	3.27	15	83	0.3	2	0.95	0.2	41	6	34	18	2.58	0.29	12	11	0.53	336	1	0.07	16	0.06	5	56	0.29	89	62
44	10700N-8800E	5	0.2	3.57	3	76	0.4	2	1.04	0.3	41	19	256	40	3.49	0.18	13	15	1.65	323	1	0.07	82	0.06	5	52	0.30	115	68
45	8850	5	0.2	3.84	2	75	0.5	2	1.18	0.4	41	25	257	62	3.95	0.20	12	13	2.07	388	1	0.06	113	0.09	5	43	0.27	115	75
46	10700N-8900E	5	0.2	4.10	2	80	0.5	2	0.98	0.5	47	22	238	62	4.03	0.20	16	12	2.05	381	1	0.06	103	0.11	4	41	0.30	121	74
47	10700N-8950E	5	0.2	3.52	2	82	0.5	2	1.17	0.2	42	22	230	47	3.78	0.20	13	14	1.89	491	1	0.06	85	0.06	5	45	0.26	122	77
48	9000	5	0.2	3.47	2	99	0.4	2	0.97	0.2	41	17	145	41	3.55	0.25	13	14	1.36	481	1	0.07	61	0.09	4	49	0.27	114	74
49	9050	5	0.2	3.26	2	87	0.4	2	0.71	0.2	40	12	125	29	3.25	0.26	14	16	0.97	314	1	0.06	40	0.08	3	48	0.24	102	69
51	9100	5	0.2	3.51	2	104	0.6	2	0.61	0.2	40	13	101	37	3.24	0.29	15	16	1.08	338	1	0.06	42	0.08	6	49	0.23	96	67
52	10700N-9150E	5	0.2	3.57	2	117	0.4	2	0.59	0.2	39	9	38	29	3.04	0.30	14	15	0.64	315	1	0.06	17	0.08	6	58	0.23	93	73
53	10700N-9200E	5	0.2	3.73	18	131	0.5	2	0.49	0.2	39	10	30	36	3.56	0.40	14	17	0.63	750	1	0.06	15	0.13	6	45	0.22	84	121
54	9250	5	0.2	3.72	9	135	0.5	2	0.57	0.2	40	8	30	30	3.08	0.36	14	16	0.57	904	1	0.08	13	0.10	6	54	0.22	83	110
55	9300	5	0.2	3.75	21	110	0.4	2	0.56	0.2	37	8	54	40	3.18	0.33	13	15	0.63	343	1	0.07	18	0.10	9	47	0.23	79	129
56	9350	5	0.2	4.18	16	137	0.5	2	0.49	0.2	39	11	28	34	3.38	0.42	14	16	0.77	723	1	0.06	18	0.11	9	44	0.23	83	175
57	10700N-9400E	5	0.2	4.39	18	130	0.6	2	0.48	0.2	40	11	31	47	3.57	0.37	15	17	0.71	373	1	0.07	19	0.11	9	46	0.23	82	173
58	10700N-9450E	5	0.2	4.57	26	144	0.5	2	0.40	0.3	34	14	54	54	3.82	0.42	12	16	0.96	530	1	0.06	32	0.12	9	35	0.20	86	173
59	9500	5	0.2	3.32	14	123	0.4	2	0.53	0.2	34	9	45	25	2.94	0.36	12	15	0.56	1009	1	0.06	14	0.10	3	45	0.18	90	102
60	9550	5	0.2	3.96	5	129	0.5	2	0.50	0.2	44	10	36	29	3.27	0.39	16	18	0.73	362	1	0.06	18	0.09	9	45	0.23	83	153
61	9600	5	0.2	3.84	12	134	0.7	2	0.60	0.3	44	15	44	29	3.36	0.38	17	19	0.73	982	1	0.07	21	0.11	11	55	0.23	92	198
62	10700N-10050E	130	0.2	3.56	7	89	0.4	2	0.67	0.2	38	7	33	25	3.28	0.26	13	15	0.60	282	1	0.06	14	0.06	5	57	0.28	107	71
63	10700N-10100E	30	0.2	2.99	7	100	0.4	2	0.71	0.2	37	6	34	25	2.43	0.29	12	9	0.45	302	1	0.07	12	0.06	8	60	0.23	82	61
64	10150	80	0.2	3.37	10	89	0.4	2	0.63	0.2	39	7	38	18	3.56	0.28	12	12	0.66	338	1	0.06	14	0.06	7	50	0.24	91	83
65	10700N-10200E	5	0.2	3.18	7	99	0.4	2	0.57	0.2	36	6	30	19	2.92	0.28	13	12	0.57	304	1	0.06	13	0.07	11	50	0.23	81	66
66	11100N-8600E	5	0.2	4.30	9	88	0.5	2	0.61	0.4	36	27	209	65	4.10	0.21	12	12	2.24	407	1	0.06	119	0.08	9	37	0.26	115	73
67	11100N-8650E	5	0.2	4.01	10	101	0.5	2	0.65	0.3	34	24	209	49	4.03	0.22	11	16	1.92	698	1	0.07	89	0.11	11	47	0.25	112	87
68	11100N-8700E	5	0.2	3.96	13	56	0.5	2	0.86	0.6	32	29	276	58	4.56	0.12	9	11	3.28	452	1	0.05	152	0.07	9	38	0.27	129	75
69	8750	5	0.2	4.61	10	82	0.5	2	0.60	0.5	31	32	270	72	4.56	0.18	9	11	3.14	466	1	0.06	155	0.08	12	33	0.24	125	85
70	8800	5	0.2	4.99	7	184	0.8	3	1.75	0.9	59	38	294	94	4.83	0.18	18	9	4.40	807	1	0.05	223	0.10	8	79	0.28	119	79
71	8850	5	0.2	4.31	2	46	0.6	3	1.94	0.7	32	34	244	87	4.31	0.09	9	6	4.65	452	1	0.05	217	0.05	4	43	0.25	150	77
72	11100N-10050E	5	0.4	4.02	29	108	0.6	2	0.66	0.2	40	12	67	121	3.56	0.32	14	16	0.88	375	1	0.07	31	0.12	7	52	0.23	103	92
73	11100N-10100E	5	0.2	3.83	21	141	0.5	2	0.95	0.2	41	13	48	40	3.61	0.40	13	14	0.94	974	1	0.06	20	0.09	7	69	0.22	110	95
74	10150	5	0.2	3.42	21	107	0.4	2	0.92	0.2	38	8	32	24	3.07	0.34	12	12	0.73	603	1	0.06	15	0.07	8	69	0.22	103	76
75	10200	5	0.2	4.32	27	132	0.6	2	0.66	0.2	40	13	44	107	3.98	0.35	14	18	0.99	498	1	0.07	29	0.08	11	55	0.24	109	108
76	10250	5	0.2	4.06	20	128	0.5	2	0.65	0.2	37	10	47	37	3.96	0.34	13	23	0.82	377	2	0.08	19	0.16	11	57	0.27	115	157
77	11100N-10300E	5	0.6	5.19	24	142	1.0	2	1.09	0.3	51	14	31	829	3.85	0.26	31	27	0.93	1002	5	0.07	29	0.07	14	73	0.22	113	123
78	11100N-10350E	5	0.4	4.44	20	114	0.8	2	1.59	0.3	51	14	31	617	3.74	0.32	24	22	0.95	939	1	0.06	24	0.06	13	96	0.21	119	90
79	10400	1200	2.0	2.51	26	69	0.5	5	0.85	4.0	39	18	51	1417	10.89	0.15	12	12	0.60	383	773	0.04	22	0.14	18	44	0.20	113	106
80	13050	10	0.2	3.13	5	96	0.3	2	1.03	0.2	40	6	14	26	2.46	0.30	12	8	0.47	302	2	0.05	8	0.05	8	98	0.26	94	50
81	11100N-13100E	5	0.2	3.31	7	86	0.5	2	0.90	0.2	38	10	21	26	3.88	0.22	13	16	0.54	520	1	0.07	9	0.07	11	78	0.31	179	95

T.T. No.	SAMPLE	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
82	11100N-13150E	5	0.2	4.42	8	91	0.5	2	1.16	0.3	43	11	18	60	3.71	0.24	12	17	0.80	462	1	0.06	13	0.12	11	85	0.26	121	11[illegible]
83	11100N-13200E	5	0.2	4.34	9	81	0.6	4	1.55	0.8	38	15	21	62	4.65	0.24	10	18	1.03	570	1	0.05	14	0.07	12	104	0.27	172	110
84	13250	5	0.2	3.60	3	93	0.4	2	1.35	0.2	42	11	20	42	4.03	0.26	12	18	0.82	504	1	0.07	10	0.06	12	95	0.30	163	108
85	13300	5	0.2	3.15	2	67	0.4	2	1.18	0.2	43	6	20	18	2.91	0.19	13	11	0.51	366	1	0.07	7	0.05	13	91	0.31	127	70
86	13350	5	0.4	4.55	9	74	0.5	5	2.05	0.9	29	17	20	70	4.46	0.21	9	16	1.26	726	1	0.05	17	0.07	12	116	0.27	166	137
87	11100N-13400E	5	0.2	4.29	5	74	0.5	3	1.75	0.5	39	12	21	42	4.43	0.22	10	18	0.81	598	1	0.06	11	0.07	16	112	0.31	167	110
88	11100N-13450E	5	0.2	4.08	5	79	0.5	2	1.72	0.5	39	13	27	48	4.41	0.23	10	17	0.89	623	1	0.06	13	0.06	13	110	0.30	173	101
89	13500	5	0.4	3.90	8	72	0.5	3	1.57	0.5	41	12	29	42	4.38	0.22	12	20	0.79	586	2	0.06	12	0.06	15	98	0.30	169	116
90	13550	5	0.2	4.78	11	73	0.5	4	1.87	0.9	36	17	26	91	4.92	0.23	9	21	1.35	760	1	0.05	17	0.09	17	104	0.27	179	131
91	13600	5	0.2	4.29	16	71	0.6	3	2.09	0.8	39	16	22	71	4.47	0.24	11	18	1.11	731	1	0.06	15	0.07	15	118	0.27	169	112
92	11100N-13650E	5	0.2	4.32	8	71	0.6	4	2.36	0.6	37	15	19	55	4.61	0.24	10	18	0.97	1040	1	0.06	13	0.07	16	127	0.28	183	122
93	11100N-13700E	5	0.4	4.36	8	72	0.5	4	2.20	0.4	37	15	20	53	4.22	0.20	9	18	0.97	875	1	0.06	13	0.07	12	119	0.29	161	154
94	13750	5	0.2	4.45	8	63	0.5	3	2.27	0.6	34	15	18	77	4.68	0.20	8	17	1.20	835	1	0.05	14	0.08	16	118	0.27	178	108
95	11100N-13800E	5	0.4	4.03	5	83	0.5	2	1.54	0.4	38	14	28	45	4.14	0.22	10	20	1.01	657	1	0.06	14	0.07	11	93	0.28	157	131
96	11300N-8800E	5	0.2	4.07	8	68	0.5	2	0.64	0.3	31	29	273	51	4.28	0.17	10	13	2.49	437	1	0.06	133	0.11	5	40	0.23	122	81
97	11300N-8850E	5	0.2	3.82	8	71	0.4	3	0.68	0.2	30	17	157	38	3.94	0.19	9	12	1.54	356	1	0.07	61	0.05	9	51	0.20	124	56
98	11300N-8900E	5	0.2	4.24	4	77	0.5	3	0.77	0.2	31	25	207	63	4.10	0.17	9	11	2.23	453	1	0.06	112	0.10	6	39	0.22	117	74
99	8950	5	0.2	3.91	2	97	0.5	2	0.68	0.2	34	19	146	38	3.45	0.20	11	15	1.61	660	1	0.07	73	0.07	7	49	0.21	104	71
101	9000	5	0.2	5.07	2	101	0.7	4	1.17	0.7	38	30	246	85	4.33	0.31	11	13	2.88	705	1	0.08	123	0.10	11	48	0.23	119	94
102	9050	5	0.2	4.79	5	112	0.5	3	0.78	0.3	37	22	210	61	4.24	0.27	12	14	2.01	546	1	0.08	88	0.08	12	52	0.28	126	82
103	11300N-9100E	5	0.4	4.24	5	100	0.5	4	0.90	0.4	39	21	176	52	4.27	0.24	12	17	1.84	412	1	0.07	79	0.07	10	49	0.24	130	82
104	11300N-9150E	5	0.2	4.28	2	70	0.5	4	1.17	0.7	39	31	287	60	4.62	0.16	11	15	2.56	399	1	0.06	153	0.09	9	41	0.31	127	83
105	9200	5	0.2	4.10	5	86	0.5	3	0.63	0.2	38	20	167	44	4.05	0.22	12	19	1.67	390	1	0.07	75	0.07	8	50	0.25	127	70
106	9250	5	0.2	3.83	4	96	0.5	2	0.60	0.2	41	8	48	26	3.49	0.28	14	18	0.58	315	1	0.07	17	0.16	6	53	0.24	90	98
107	9300	5	0.2	4.11	22	113	0.5	2	0.53	0.2	38	9	45	48	3.66	0.35	13	17	0.73	380	1	0.06	19	0.10	6	44	0.22	90	114
108	11300N-9350E	5	0.2	4.00	46	141	0.5	2	0.72	0.2	41	10	42	55	4.28	0.40	13	19	0.88	477	1	0.06	22	0.09	9	46	0.23	105	118
109	11300N-9400E	5	0.2	4.02	26	115	0.5	3	0.58	0.2	39	9	38	37	4.19	0.35	13	21	0.73	522	1	0.06	17	0.09	8	43	0.25	117	108
110	9450	5	0.4	3.39	9	79	0.4	2	0.71	0.2	36	15	174	36	3.71	0.23	11	15	1.29	307	1	0.06	59	0.07	6	41	0.24	120	76
111	9500	5	0.2	3.23	5	81	0.5	2	0.83	0.2	36	7	54	22	2.56	0.19	11	11	0.41	225	1	0.06	13	0.03	8	60	0.22	95	50
112	9550	15	0.4	4.13	10	126	0.6	2	1.12	0.2	42	12	66	57	3.24	0.33	14	22	0.90	465	1	0.07	31	0.07	7	58	0.20	94	162
113	11300N-9600E	15	0.2	4.08	17	121	0.5	2	0.54	0.2	36	12	73	40	3.92	0.36	12	17	0.95	363	1	0.06	29	0.11	8	42	0.21	101	102
114	11300N-9650E	5	0.4	4.11	27	135	0.5	2	0.47	0.2	37	10	40	49	3.85	0.41	14	14	0.79	412	1	0.06	19	0.10	8	41	0.23	92	121
115	9700	5	0.2	4.32	20	118	0.5	2	0.49	0.2	39	9	36	34	3.75	0.38	13	20	0.72	324	1	0.06	19	0.12	9	42	0.23	87	151
116	9750	10	0.4	3.38	10	105	0.5	2	0.68	0.2	41	11	52	22	3.25	0.31	14	18	0.70	408	1	0.06	16	0.05	7	52	0.25	102	165
117	9800	5	0.2	3.73	17	100	0.5	2	0.70	0.3	43	11	44	33	3.79	0.32	15	19	0.75	459	1	0.06	19	0.06	9	55	0.28	119	111
118	11300N-9850E	5	0.4	4.70	54	132	0.6	3	0.78	0.7	41	20	53	199	4.71	0.37	13	16	1.25	486	2	0.05	42	0.07	11	47	0.24	124	85
119	11300N-9900E	5	0.4	3.83	51	109	0.5	3	0.65	0.7	39	11	67	136	4.49	0.32	12	16	0.81	373	3	0.07	31	0.08	10	51	0.26	128	92
120	9950	20	0.4	3.66	41	93	0.4	2	0.68	0.2	39	7	42	124	3.83	0.26	13	14	0.61	313	3	0.06	16	0.07	8	53	0.26	117	72
121	10000	5	0.2	0.51	6	42	0.4	2	2.77	0.2	25	4	13	160	0.45	0.07	6	4	0.15	183	2	0.02	6	0.08	3	60	0.02	25	33
122	10050	5	0.6	4.02	23	116	0.5	2	0.61	0.2	35	15	71	115	3.58	0.32	12	16	1.01	363	1	0.06	42	0.09	4	46	0.20	97	111
123	11300N-10100E	5	0.6	3.41	9	102	0.4	2	0.63	0.2	36	10	38	72	3.04	0.28	13	16	0.60	460	1	0.06	17	0.08	8	55	0.22	90	100
124	11300N-10150E	20	0.4	4.07	29	131	0.5	2	0.65	0.2	36	14	56	158	3.89	0.36	12	18	1.01	453	1	0.06	36	0.04	7	50	0.22	111	85
125	11300N-10200E	5	0.4	3.79	15	108	0.5	2	0.64	0.2	39	11	46	74	3.17	0.30	13	20	0.72	514	1	0.08	21	0.06	7	53	0.20	97	159

T.T. No.	SAMPLE	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 p
126	11300N-10[illegible]	5	0.4	4.22	97	132	0.6	2	0.54	0.2	37	16	48	150	[illegible].85	0.34	13	19	0.79	639	1	0.07	29	0.07	7	49	0.20	103	10[illegible]
127	10300	20	0.2	4.55	10	178	0.8	3	0.86	0.4	52	20	23	162	4.07	0.70	16	16	1.54	1903	1	0.05	20	0.09	10	49	0.17	113	87
128	11300N-10350E	5	0.6	3.89	5	143	0.7	2	0.79	0.2	43	16	15	45	3.10	0.67	14	12	0.64	2899	1	0.04	9	0.16	11	58	0.16	74	103
129	11300N-10400E	5	0.4	4.03	2	188	0.7	2	0.94	0.2	50	11	31	30	3.05	0.50	17	17	0.87	1242	1	0.06	15	0.08	9	69	0.25	84	83
130	10450	5	0.2	4.15	2	173	0.8	2	0.93	0.2	57	9	30	24	2.80	0.61	20	15	0.67	713	1	0.06	15	0.06	11	78	0.24	73	74
131	10500	5	0.2	3.86	2	117	0.6	2	0.83	0.2	47	11	30	26	2.72	0.36	18	20	0.63	678	1	0.06	15	0.07	6	76	0.22	82	80
132	10550	5	0.4	3.64	3	114	0.4	2	0.87	0.2	47	9	33	23	2.65	0.33	16	19	0.64	374	1	0.07	15	0.04	3	80	0.24	81	51
133	11300N-10600E	5	0.2	3.40	23	108	0.5	2	1.06	0.2	52	10	34	27	2.82	0.31	19	20	0.67	493	1	0.05	16	0.04	7	75	0.25	91	60
134	11300N-10650E	5	0.4	4.43	21	85	0.8	3	0.93	0.8	43	46	27	187	5.11	0.23	13	26	2.02	1509	1	0.05	26	0.08	7	62	0.29	182	100
135	10700	5	0.4	3.52	3	112	0.5	2	1.03	0.2	44	13	33	30	3.28	0.28	14	19	0.71	630	1	0.06	16	0.10	8	81	0.25	102	81
136	11300N-10750E	5	0.4	3.42	2	95	0.5	2	1.05	0.2	50	11	35	31	3.31	0.25	17	19	0.74	400	1	0.06	18	0.07	8	79	0.27	105	68
137	11500N-9750E	5	0.4	3.35	8	93	0.4	2	0.67	0.2	39	8	38	33	3.15	0.27	13	16	0.53	379	1	0.08	12	0.06	7	61	0.25	105	78
138	11500N-9800E	5	1.0	4.33	22	103	0.5	2	0.70	0.4	43	13	41	106	4.10	0.32	13	18	0.80	398	1	0.07	24	0.11	8	51	0.25	111	115
139	11500N-9850E	5	0.6	4.46	62	117	0.5	2	0.81	0.5	39	16	47	264	4.74	0.38	11	19	0.98	771	2	0.06	31	0.08	8	47	0.25	134	99
140	9900	180	0.8	4.54	35	114	0.6	3	0.97	0.7	41	18	41	179	4.63	0.37	12	19	0.99	544	1	0.06	30	0.09	29	54	0.26	126	112
141	11500N-9950E	10	0.6	4.23	37	145	0.7	2	0.78	0.3	46	18	51	432	4.02	0.37	15	14	1.16	510	2	0.05	40	0.06	12	50	0.21	105	75
142	11900N-9450E	5	0.4	4.90	2	98	0.5	3	1.63	0.6	36	38	201	130	4.55	0.12	9	9	3.27	1112	1	0.05	162	0.08	10	37	0.27	122	85
143	11900N-9500E	5	0.4	4.31	2	78	0.4	2	1.46	0.4	35	33	184	78	4.07	0.12	9	10	2.67	641	1	0.05	149	0.06	8	40	0.24	105	84
144	11900N-12050E	5	0.2	3.13	2	70	0.5	2	1.74	0.2	47	11	36	35	2.80	0.14	14	13	0.84	469	1	0.05	17	0.04	18	116	0.33	104	62
145	12100	5	0.2	3.19	2	84	0.5	2	1.71	0.2	45	11	31	47	2.99	0.15	14	11	0.90	430	1	0.05	20	0.04	15	121	0.29	100	48
146	12150	5	0.6	3.25	2	106	0.5	2	1.67	0.2	46	12	31	30	3.04	0.16	14	13	0.84	523	1	0.06	20	0.05	12	113	0.31	102	70
147	12200	5	0.2	2.94	5	76	0.4	2	1.13	0.2	43	9	34	29	3.40	0.18	14	13	0.63	341	1	0.05	16	0.11	10	81	0.29	102	71
148	11900N-12250E	5	0.2	3.32	2	92	0.5	2	1.38	0.2	46	11	34	36	3.28	0.20	15	14	0.80	456	1	0.06	22	0.08	8	98	0.30	100	63
149	11900N-12300E	5	0.2	2.99	3	66	0.4	2	1.34	0.2	45	7	30	21	2.74	0.17	14	12	0.51	300	1	0.06	12	0.04	10	111	0.31	103	44
152	12350	5	0.2	2.97	3	57	0.4	2	1.26	0.2	41	6	23	23	2.45	0.16	12	10	0.50	289	1	0.05	11	0.05	2	111	0.29	88	40
153	12400	5	0.2	3.41	8	94	0.5	2	1.23	0.2	39	10	24	41	2.62	0.18	13	14	0.65	319	1	0.05	17	0.06	4	100	0.27	88	54
154	12450	5	0.2	3.10	3	86	0.4	2	1.15	0.2	40	7	20	26	2.29	0.22	12	10	0.52	287	1	0.06	11	0.06	3	109	0.27	83	45
155	11900N-12500E	5	0.2	2.87	4	70	0.4	2	1.11	0.2	40	6	14	18	2.51	0.22	12	10	0.45	258	1	0.05	8	0.04	3	105	0.28	87	39
156	11900N-12550E	5	0.2	3.37	2	94	0.4	2	1.39	0.2	41	8	14	22	2.28	0.27	11	11	0.62	315	1	0.04	11	0.05	5	125	0.25	69	46
157	12600	5	0.2	3.29	2	89	0.4	2	1.19	0.2	41	7	15	17	2.88	0.23	12	15	0.50	321	1	0.05	9	0.08	6	106	0.29	86	59
158	12650	5	0.2	5.18	10	223	0.7	2	1.28	0.2	44	14	20	47	3.43	0.29	14	17	0.94	470	1	0.05	20	0.11	6	94	0.29	101	68
159	12700	5	0.2	3.91	3	163	0.6	2	2.36	0.2	43	11	17	41	2.58	0.27	16	13	0.71	514	1	0.04	14	0.09	2	86	0.23	76	59
160	11900N-12750E	5	0.2	5.48	2	156	0.7	3	2.00	0.2	52	14	10	40	3.68	0.29	14	13	0.92	424	1	0.04	13	0.07	6	196	0.34	101	66
161	11900N-12800E	5	0.2	4.11	2	163	0.6	2	1.60	0.2	37	10	11	39	2.68	0.28	11	16	0.67	836	1	0.04	11	0.12	2	71	0.20	83	56
162	12850	5	0.2	3.30	2	73	0.4	2	1.19	0.2	40	4	10	14	1.76	0.19	12	9	0.32	228	1	0.06	4	0.03	4	142	0.32	77	37
163	12900	5	0.2	4.14	2	97	0.4	2	1.12	0.2	36	6	10	23	2.98	0.32	10	14	0.50	285	1	0.05	7	0.12	2	122	0.28	92	57
164	12950	5	0.2	4.80	2	111	0.5	2	1.53	0.2	40	9	11	38	3.42	0.27	10	13	0.70	406	1	0.04	10	0.07	2	167	0.28	101	55
165	11900N-13000E	5	0.2	3.80	2	84	0.4	2	1.26	0.2	34	8	9	34	2.77	0.26	9	13	0.56	298	1	0.04	9	0.08	3	125	0.23	90	45
166	11900N-13050E	5	0.2	3.51	2	132	0.4	2	1.75	0.2	40	9	9	42	2.56	0.23	11	10	0.73	438	3	0.04	9	0.05	2	172	0.25	85	60
167	13100	5	0.2	4.06	2	85	0.5	2	1.42	0.2	38	7	11	29	2.87	0.23	11	14	0.53	318	1	0.05	9	0.08	2	155	0.28	90	66
168	13150	5	0.2	4.12	2	88	0.5	2	1.54	0.2	42	8	11	32	3.00	0.26	11	13	0.58	354	1	0.05	9	0.07	3	173	0.29	100	71
169	13200	5	0.2	3.98	2	92	0.5	2	1.59	0.2	44	9	10	36	3.10	0.26	11	11	0.66	399	1	0.06	10	0.06	5	171	0.28	103	67
170	11900N-13250E	5	0.2	3.48	2	77	0.4	2	1.26	0.2	36	6	11	22	2.70	0.25	10	13	0.47	320	1	0.05	8	0.06	2	133	0.26	92	62
171	11900N-13300E	5	0.2	3.56	2	81	0.5	2	1.33	0.2	37	7	13	26	2.85	0.22	10	13	0.50	334	1	0.04	9	0.08	2	135	0.25	87	59

T.T. No.	SAMPLE	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 pp
172	11900N-133[illegible]	5	0.2	3.12	2	68	0.4	2	1.33	0.2	37	5	14	20	[illegible]	0.22	10	12	0.41	346	1	0.05	8	0.06	3	127	0.24	91	5[illegible]
173	13400	5	0.2	3.20	2	73	0.4	2	1.43	0.2	39	6	13	22	2.26	0.17	11	12	0.40	302	1	0.04	7	0.03	3	136	0.25	87	45
174	13450	5	0.2	3.20	2	72	0.4	2	1.09	0.2	35	6	14	19	2.78	0.21	10	14	0.39	282	1	0.06	7	0.08	2	99	0.25	91	65
175	11900N-13500E	5	0.2	3.63	2	79	0.4	2	1.12	0.2	38	8	17	49	2.93	0.22	11	15	0.56	342	1	0.05	10	0.08	6	97	0.26	94	71
176	12300N-8800E	5	0.2	3.45	2	76	0.3	2	0.64	0.2	30	14	171	26	3.68	0.17	10	17	1.17	297	1	0.07	52	0.05	2	51	0.22	135	52
177	8850	5	0.2	3.55	3	76	0.4	2	0.76	0.2	32	17	168	34	3.69	0.20	10	15	1.34	430	1	0.07	62	0.06	3	51	0.25	120	63
178	8900	5	0.2	3.34	7	70	0.4	2	0.96	0.2	35	15	196	30	4.06	0.17	10	15	1.27	313	1	0.07	58	0.05	3	55	0.24	136	55
179	8950	15	0.2	4.35	3	88	0.5	2	0.83	0.2	38	23	197	47	4.45	0.21	11	15	1.89	412	1	0.10	92	0.06	2	49	0.25	137	74
180	12300N-9000E	5	0.2	3.59	3	45	0.4	3	1.69	0.5	38	38	373	76	4.53	0.11	10	6	3.59	906	1	0.05	167	0.05	2	46	0.22	122	67
181	12300N-9050E	5	0.2	4.00	2	39	0.4	2	2.08	0.3	32	47	297	108	4.66	0.06	8	8	5.08	670	1	0.03	285	0.04	2	30	0.20	105	68
182	9100	5	0.2	4.20	2	50	0.4	3	1.65	0.4	33	47	277	72	4.62	0.10	8	10	4.74	638	1	0.04	277	0.05	2	28	0.21	114	77
183	9150	10	0.2	4.14	35	78	0.5	2	1.08	0.2	34	38	237	57	4.32	0.21	9	15	2.88	940	1	0.06	168	0.05	2	40	0.20	128	78
184	9200	20	0.2	3.64	87	68	0.5	2	0.90	0.3	31	42	183	82	4.53	0.17	8	15	2.30	1361	1	0.05	136	0.05	2	40	0.18	160	81
185	12300N-9250E	5	0.2	4.67	99	124	0.5	2	0.81	0.3	30	39	200	95	4.84	0.36	8	17	2.60	1164	1	0.06	148	0.05	3	34	0.15	147	94
186	12300N-9300E	5	0.2	4.74	50	115	0.5	4	0.78	0.5	31	43	256	105	5.55	0.37	8	17	2.49	1280	1	0.05	189	0.05	5	29	0.12	156	82
187	9350	5	0.2	5.08	6	67	0.5	4	2.15	0.5	31	44	171	119	5.31	0.13	6	11	3.62	674	1	0.04	228	0.04	2	21	0.17	133	71
188	9400	5	0.2	4.79	2	67	0.4	3	1.46	0.7	33	47	301	100	5.36	0.11	8	17	3.60	486	1	0.06	210	0.06	3	27	0.26	136	99
189	9450	5	0.2	4.14	11	64	0.4	2	1.22	0.9	35	46	219	67	4.92	0.15	8	17	2.68	848	1	0.06	164	0.08	5	26	0.25	128	145
190	12300N-9500E	5	0.2	4.03	45	57	0.4	2	1.18	1.1	32	35	223	57	4.64	0.14	8	15	2.60	443	1	0.06	151	0.05	7	31	0.27	136	167
191	12300N-9550E	10	0.2	3.78	68	83	0.5	2	0.74	0.9	32	19	176	38	3.82	0.25	10	19	1.47	343	1	0.10	82	0.04	4	41	0.23	121	173
192	9600	5	0.4	3.64	51	80	0.4	2	0.95	0.3	34	21	187	124	4.06	0.24	9	15	1.36	330	3	0.09	85	0.05	3	50	0.25	129	97
193	9650	5	0.2	3.45	8	92	0.4	2	1.16	0.2	33	23	183	66	3.79	0.23	9	16	1.66	593	1	0.06	87	0.05	3	44	0.26	131	73
194	9700	30	0.2	3.72	69	99	0.4	2	0.58	0.2	31	14	74	118	3.61	0.34	10	19	0.77	377	4	0.08	32	0.05	4	43	0.21	107	93
195	12300N-9750E	5	0.2	3.60	11	160	0.4	2	0.60	0.2	31	10	61	39	2.96	0.38	10	17	0.60	682	1	0.07	17	0.06	4	45	0.18	89	84
196	12300N-9800E	5	0.2	3.68	13	112	0.4	2	0.55	0.2	31	9	46	48	3.02	0.33	10	20	0.62	297	1	0.07	17	0.07	4	45	0.19	89	104
197	9850	5	0.2	3.59	24	92	0.4	2	0.49	0.2	30	8	51	54	3.62	0.26	10	19	0.58	231	5	0.07	17	0.06	5	42	0.21	107	81
198	9900	5	0.2	3.75	45	134	0.5	2	1.15	0.3	45	15	28	422	4.02	0.41	12	13	0.98	481	4	0.07	24	0.09	6	61	0.21	110	70
199	9950	5	0.2	3.25	6	86	0.4	2	0.95	0.2	42	8	41	28	3.22	0.29	12	17	0.64	313	1	0.07	14	0.04	4	76	0.25	112	56
201	12300N-10000E	5	0.2	3.64	11	103	0.6	2	0.69	0.2	42	11	36	28	3.33	0.31	15	24	0.64	328	2	0.07	19	0.09	9	62	0.24	95	95
202	12300N-10050E	5	0.2	3.91	22	171	0.6	2	0.92	0.2	34	13	29	70	3.47	0.46	9	20	0.91	452	1	0.06	22	0.08	7	63	0.20	106	96
203	10500	5	0.2	4.22	4	192	0.6	2	0.85	0.2	43	7	13	18	2.45	0.68	14	16	0.59	831	1	0.06	8	0.06	6	84	0.21	66	63
204	10550	380	0.2	3.96	2	115	0.6	2	0.85	0.2	44	9	16	22	2.67	0.46	14	15	0.58	263	1	0.06	12	0.07	6	82	0.24	68	44
205	10600	5	0.2	3.21	2	83	0.4	2	0.73	0.2	41	4	14	12	1.92	0.34	14	9	0.30	318	1	0.06	5	0.10	6	64	0.20	61	40
206	12300N-10650E	5	0.2	4.13	4	129	0.5	2	0.97	0.2	40	9	17	28	2.99	0.33	12	17	0.60	363	1	0.08	12	0.06	7	84	0.22	90	64
207	12300N-10700E	5	0.2	4.47	2	123	0.5	2	1.21	0.2	42	10	13	82	3.07	0.32	12	18	0.69	391	1	0.06	13	0.08	10	94	0.22	92	89
208	10750	5	0.2	3.52	11	112	0.5	3	1.08	0.2	44	11	19	97	3.26	0.29	14	19	0.63	494	1	0.07	12	0.06	7	105	0.25	105	89
209	10800	5	0.2	3.62	6	126	0.8	2	0.94	0.2	52	19	28	156	3.34	0.24	18	23	0.69	1412	1	0.07	20	0.06	4	71	0.27	117	101
210	10850	5	0.2	3.17	6	116	0.5	4	0.95	0.2	44	11	22	42	3.72	0.29	14	19	0.68	649	1	0.08	12	0.09	6	72	0.29	140	94
211	12300N-10900E	5	0.2	2.91	2	113	0.4	2	1.03	0.2	45	9	38	32	2.70	0.21	16	15	0.77	404	1	0.06	22	0.04	2	81	0.27	93	50
212	12300N-11000E	5	0.2	2.90	5	84	0.5	2	1.05	0.2	44	11	30	35	3.05	0.23	15	17	0.69	485	1	0.07	18	0.06	2	73	0.32	111	61
213	11050	5	0.2	3.42	2	108	0.5	2	1.24	0.2	48	14	40	42	3.29	0.26	17	19	0.94	487	1	0.08	29	0.07	2	84	0.34	112	82
214	11100	5	0.2	3.27	3	116	0.5	2	1.03	0.2	52	12	38	37	3.50	0.25	20	17	0.74	497	1	0.07	26	0.09	3	76	0.32	109	64
215	11150	5	0.2	3.47	2	124	0.6	2	1.03	0.2	45	15	30	44	3.32	0.23	17	18	0.80	894	1	0.08	18	0.13	6	78	0.32	127	76
216	12300N-11200E	5	0.2	3.25	11	97	0.5	2	1.14	0.2	36	11	23	39	3.95	0.25	11	16	0.84	528	1	0.08	18	0.12	4	77	0.39	141	76

T.T. No.	SAMPLE	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 pp[illegible]
217	12300N-11[illegible]	5	0.2	2.59	10	79	0.4	2	1.08	0.2	40	8	29	36	[illegible].46	0.21	13	11	0.60	364	1	0.06	15	0.16	6	75	0.28	100	5[illegible]
218	12000	5	0.2	3.26	2	116	0.6	2	1.07	0.2	48	11	28	47	3.21	0.24	16	13	0.80	452	1	0.06	21	0.08	4	74	0.29	95	61
219	12050	5	0.2	3.61	2	185	0.7	2	1.09	0.2	54	10	29	40	3.17	0.35	21	13	0.73	368	1	0.07	19	0.06	8	78	0.32	92	56
220	12100	5	0.2	3.67	5	217	0.7	2	1.12	0.2	49	11	30	41	3.06	0.31	20	14	0.68	720	1	0.07	18	0.15	7	73	0.28	96	74
221	12300N-12150E	5	0.2	3.26	7	132	0.8	2	1.17	0.2	44	13	30	74	2.65	0.20	22	12	0.52	829	2	0.06	16	0.20	2	74	0.24	104	51
222	12300N-12250E	5	0.2	3.87	2	124	0.7	2	0.87	0.2	41	15	26	39	3.24	0.20	16	19	0.72	954	1	0.07	16	0.06	2	75	0.28	118	78
223	12300	5	0.2	2.99	2	91	0.5	2	1.29	0.2	47	11	23	41	2.87	0.20	15	11	0.78	445	1	0.06	16	0.07	5	97	0.29	93	53
224	12350	5	0.2	3.38	2	73	0.5	2	1.51	0.2	45	7	15	30	2.67	0.19	12	14	0.61	382	1	0.06	12	0.05	2	137	0.32	97	57
225	12400	5	0.2	5.02	2	178	0.7	2	1.08	0.2	38	12	20	47	3.62	0.21	11	22	0.66	292	1	0.05	21	0.10	5	83	0.23	100	62
226	12300N-12450E	5	0.2	3.30	3	75	0.5	2	1.31	0.2	43	6	19	24	2.41	0.16	13	12	0.47	305	1	0.07	10	0.04	6	111	0.35	95	47
227	12300N-12600E	5	0.2	3.38	2	67	0.4	2	1.10	0.2	36	6	16	31	2.48	0.20	10	13	0.44	253	1	0.05	11	0.05	3	98	0.27	95	42
228	12650	5	0.2	2.76	3	74	0.4	2	1.12	0.2	41	6	18	21	2.50	0.17	13	11	0.45	278	1	0.06	9	0.05	4	94	0.29	90	44
229	12800	5	0.2	3.20	2	68	0.4	2	1.30	0.2	43	7	17	22	2.82	0.23	12	11	0.53	304	1	0.05	11	0.07	3	117	0.29	93	66
230	12850	5	0.2	4.12	2	91	0.6	4	1.37	0.2	42	9	19	29	3.50	0.24	12	16	0.66	376	1	0.05	14	0.13	6	118	0.30	101	90
231	12300N-12900E	5	0.2	3.36	2	92	0.5	2	1.34	0.2	40	8	17	32	2.79	0.25	12	15	0.67	365	1	0.05	12	0.09	3	125	0.27	90	66
232	12300N-12950E	5	0.2	5.35	2	179	0.7	2	1.20	0.2	50	12	16	47	3.23	0.27	12	29	0.72	1254	1	0.05	16	0.09	6	68	0.24	96	79
233	13000	5	0.2	3.25	2	79	0.5	2	1.49	0.2	43	8	16	23	2.49	0.21	13	13	0.62	366	1	0.06	12	0.05	3	135	0.30	89	69
234	13050	5	0.2	6.23	2	171	0.8	2	0.93	0.2	33	14	18	53	3.90	0.23	9	27	0.80	487	1	0.05	21	0.13	8	52	0.23	103	139
235	13100	5	0.2	3.19	2	78	0.4	2	1.42	0.2	42	5	15	19	2.68	0.20	12	12	0.45	314	1	0.06	9	0.07	3	133	0.30	100	69
236	12300N-13150E	5	0.2	4.40	2	131	0.6	2	1.56	0.2	40	10	11	35	3.34	0.29	10	13	0.70	349	1	0.05	12	0.06	5	155	0.29	105	57
237	12300N-13200E	15	0.2	2.63	2	65	0.3	2	1.25	0.2	37	4	14	14	1.59	0.16	10	7	0.27	226	1	0.06	5	0.03	6	122	0.26	75	27
238	13250	5	0.2	3.95	2	97	0.4	2	1.31	0.2	42	7	12	20	2.83	0.19	12	13	0.50	279	2	0.06	9	0.03	8	140	0.31	102	42
239	13400	5	0.2	4.12	2	96	0.5	2	1.26	0.2	44	8	17	28	3.35	0.25	12	15	0.57	352	1	0.07	12	0.08	9	118	0.29	106	69
240	13450	5	0.2	3.45	2	95	0.4	2	1.30	0.2	38	7	22	21	2.53	0.23	11	15	0.54	330	1	0.06	10	0.05	7	107	0.26	94	61
241	12300N-13500E	5	0.2	3.70	2	99	0.5	2	1.07	0.2	38	8	19	22	2.96	0.26	11	16	0.50	454	1	0.07	10	0.09	2	105	0.26	100	78
242	12700N-8850E	10	0.2	4.87	3	93	0.5	2	1.35	0.5	37	39	256	141	4.85	0.20	10	16	4.13	780	1	0.06	200	0.05	2	38	0.22	138	78
243	8900	5	0.2	4.59	7	164	0.6	3	1.16	0.4	32	47	289	84	4.94	0.13	8	18	4.86	896	1	0.04	262	0.05	2	27	0.21	125	88
244	8950	5	0.2	4.96	35	122	0.6	2	1.30	0.5	32	47	293	120	5.27	0.25	9	16	4.57	747	1	0.04	293	0.04	2	29	0.19	147	76
245	9000	5	0.2	4.69	2	62	0.5	2	1.44	0.4	33	48	348	66	4.81	0.12	9	18	4.81	642	1	0.06	267	0.04	2	36	0.25	115	81
246	12700N-9050E	5	0.2	4.83	2	86	0.5	4	1.39	0.4	35	43	326	70	4.76	0.17	10	19	4.04	940	1	0.06	252	0.05	3	40	0.25	122	90
247	12700N-9100E	5	0.2	4.51	4	90	0.5	3	1.45	0.4	38	41	352	59	4.55	0.16	10	18	3.98	666	1	0.06	242	0.05	4	37	0.23	114	74
248	9150	5	0.2	4.47	2	125	0.5	2	1.19	0.2	38	33	214	95	4.12	0.33	10	17	3.10	1115	1	0.07	172	0.06	4	38	0.20	102	89
249	9200	5	0.2	4.30	3	122	0.5	2	0.69	0.2	38	20	178	34	3.39	0.29	13	17	1.61	531	1	0.08	94	0.06	4	45	0.21	89	90
251	9250	5	0.2	3.57	2	111	0.4	2	0.73	0.2	37	27	227	33	3.34	0.20	12	20	1.78	809	1	0.06	112	0.07	5	51	0.21	96	125
252	12700N-9300E	55	0.2	3.29	8	87	0.4	2	0.78	0.4	33	30	243	35	4.05	0.17	10	22	1.90	766	1	0.06	119	0.07	2	44	0.22	126	97
253	12700N-9350E	5	0.2	3.51	12	67	0.4	4	0.96	0.4	34	30	247	46	4.21	0.16	9	18	2.32	429	1	0.06	131	0.06	2	36	0.25	132	82
254	9400	5	0.2	3.18	7	79	0.4	2	0.74	0.2	34	20	226	27	3.50	0.23	10	15	1.50	302	1	0.07	79	0.04	2	40	0.23	114	57
255	9450	5	0.2	3.04	35	85	0.4	2	0.65	0.2	34	15	213	28	3.43	0.23	10	23	0.93	362	1	0.08	49	0.04	3	42	0.22	121	51
256	9500	5	0.2	3.48	93	77	0.4	2	0.62	0.2	34	15	164	55	3.68	0.23	10	17	1.06	268	1	0.09	53	0.04	2	38	0.22	121	79
257	12700N-9550E	10	0.2	3.44	28	82	0.4	2	0.63	0.2	35	16	102	59	3.47	0.23	11	19	0.89	298	1	0.07	41	0.07	2	45	0.22	105	59
258	12700N-9600E	5	0.2	3.73	37	101	0.5	2	0.64	0.2	35	17	133	105	3.82	0.29	11	19	1.09	458	2	0.08	48	0.06	2	42	0.21	109	75
259	9650	5	0.2	3.40	48	80	0.4	2	0.62	0.2	34	12	91	136	3.67	0.25	10	16	0.86	300	1	0.07	30	0.08	6	38	0.20	104	64
260	9700	5	0.2	4.15	66	111	0.5	2	0.53	0.2	33	14	65	266	3.81	0.37	10	16	0.96	512	3	0.10	34	0.10	4	39	0.17	92	66
261	12700N-9750E	5	0.2	3.81	23	119	0.5	2	0.98	0.2	39	21	92	309	3.70	0.40	11	13	1.51	659	1	0.07	59	0.05	4	40	0.18	99	70

T.T. No.	SAMPLE	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 [illegible]	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn p[illegible]
262	12700N-98[illegible]E	5	0.2	3.54	5	96	0.4	2	1.73	0.2	40	14	39	57	[illegible].60	0.29	10	14	0.90	566	1	0.06	19	0.04	5	112	0.23	128	5[illegible]
263	12700N-9850E	15	0.2	3.44	13	82	0.4	2	0.86	0.2	36	12	42	68	3.47	0.25	11	17	0.77	348	1	0.06	23	0.07	2	65	0.22	107	63
264	9900	5	0.2	3.12	12	84	0.4	2	0.79	0.2	36	10	45	34	3.30	0.22	11	16	0.63	333	1	0.06	17	0.07	6	62	0.23	105	65
265	9950	5	0.2	3.05	5	86	0.4	2	0.83	0.2	37	9	32	24	3.13	0.23	11	17	0.60	370	1	0.06	14	0.05	5	66	0.24	105	71
266	10000	5	0.2	3.35	8	107	0.5	2	0.94	0.2	38	14	36	27	3.19	0.32	11	21	0.66	576	1	0.06	19	0.07	3	68	0.24	106	100
267	12700N-10050E	5	0.2	3.47	7	111	0.5	2	0.98	0.2	39	14	34	29	3.31	0.35	12	22	0.71	527	1	0.06	20	0.07	5	73	0.25	111	103
268	12700N-10100E	5	0.2	3.64	14	104	0.5	2	1.11	0.2	38	14	39	47	3.66	0.36	12	19	0.89	402	1	0.06	24	0.05	4	76	0.25	122	75
269	10250	70	0.2	3.84	229	96	0.7	2	2.24	0.2	40	46	21	111	4.11	0.26	10	17	0.73	1449	1	0.06	24	0.09	7	128	0.25	119	88
270	10350	5	0.2	3.44	25	123	0.5	2	1.17	0.2	41	18	26	39	3.25	0.27	12	21	0.61	1152	1	0.07	15	0.08	6	91	0.25	111	86
271	10400	5	0.2	3.62	2	119	0.4	2	0.87	0.2	40	11	24	26	2.78	0.31	14	20	0.51	728	1	0.07	12	0.05	2	92	0.25	94	100
272	12700N-10450E	5	0.2	4.16	2	125	0.5	2	0.96	0.2	43	16	30	52	3.56	0.28	14	18	0.66	773	1	0.07	18	0.06	3	92	0.28	123	107
273	12700N-10500E	5	0.2	3.42	2	121	0.4	2	0.91	0.2	40	13	27	52	3.12	0.28	13	17	0.62	589	1	0.06	16	0.05	6	84	0.25	108	116
274	10550	5	0.2	3.45	2	121	0.4	2	0.94	0.2	40	12	28	43	2.88	0.26	12	17	0.55	702	1	0.06	16	0.06	2	93	0.23	95	108
275	10600	5	0.2	3.01	2	130	0.4	2	0.87	0.2	40	11	22	19	2.69	0.25	13	19	0.50	913	1	0.08	12	0.06	4	74	0.24	93	106
276	10650	5	0.2	3.37	2	136	0.4	2	0.97	0.2	39	10	27	17	2.67	0.29	12	17	0.55	687	1	0.06	15	0.06	3	85	0.23	84	76
277	12700N-10700E	5	0.2	3.16	2	105	0.4	2	0.99	0.2	45	10	32	22	3.04	0.23	15	15	0.58	468	1	0.06	17	0.06	3	83	0.26	95	59
278	12700N-10750E	5	0.2	3.58	5	136	0.5	2	0.98	0.2	50	11	30	64	3.25	0.27	17	14	0.59	587	1	0.06	16	0.08	5	86	0.27	95	85
279	10800	5	0.2	4.36	2	137	0.6	2	1.08	0.2	44	16	27	58	3.99	0.30	13	18	0.98	1172	1	0.07	22	0.08	9	74	0.30	136	96
280	10950	5	0.2	2.99	7	102	0.5	2	1.28	0.2	53	11	42	30	3.05	0.21	18	15	0.79	407	1	0.06	23	0.05	7	77	0.29	110	61
281	11000	5	0.2	3.16	4	109	0.4	2	1.25	0.2	51	11	41	30	3.07	0.22	16	14	0.77	428	1	0.06	22	0.05	2	78	0.29	109	52
282	12700N-12000E	5	0.2	3.42	2	114	0.6	2	1.02	0.2	57	10	30	41	3.27	0.25	17	12	0.76	423	1	0.06	17	0.06	2	81	0.27	96	50
283	12700N-12050E	5	0.2	3.89	2	124	0.6	2	0.89	0.2	58	11	36	57	3.25	0.26	18	13	0.76	409	1	0.06	21	0.08	2	70	0.28	93	55
284	12100	5	0.2	4.06	2	175	0.5	2	1.17	0.2	38	14	31	50	3.52	0.35	11	16	1.00	793	1	0.07	25	0.10	2	84	0.24	106	79
285	12150	5	0.2	3.59	2	143	0.5	2	1.06	0.2	44	8	25	37	3.13	0.24	15	18	0.57	628	1	0.06	15	0.05	2	81	0.25	83	65
286	12200	5	0.2	2.83	2	97	0.4	2	1.28	0.2	40	6	28	18	2.69	0.22	11	11	0.52	377	1	0.07	14	0.04	2	85	0.23	80	53
287	12700N-12250E	5	0.2	2.93	2	132	0.6	2	1.09	0.2	44	8	21	39	2.65	0.19	15	14	0.52	376	1	0.05	11	0.06	3	79	0.23	72	51
288	12700N-12300E	5	0.2	3.14	2	91	0.4	2	1.07	0.2	44	8	23	27	3.44	0.24	14	16	0.61	425	1	0.06	12	0.07	3	85	0.27	101	75
289	12350	5	0.2	2.35	2	75	0.3	2	1.16	0.2	40	6	19	15	2.12	0.18	13	11	0.41	380	1	0.06	8	0.03	2	89	0.25	80	39
290	12400	5	0.2	2.57	4	98	0.5	2	0.88	0.2	44	8	21	22	2.46	0.23	13	14	0.52	511	1	0.07	10	0.07	2	72	0.25	80	63
291	12450	5	0.2	2.89	2	80	0.3	2	0.99	0.2	41	6	16	19	2.34	0.23	11	13	0.51	318	1	0.06	8	0.04	2	88	0.25	80	52
292	12700N-12500E	5	0.2	3.42	2	91	0.4	2	0.76	0.2	34	7	18	30	2.79	0.31	10	17	0.58	313	1	0.05	10	0.08	2	67	0.20	85	63
293	12700N-12550E	5	0.2	2.65	2	76	0.3	2	1.15	0.2	42	6	19	21	2.37	0.19	13	12	0.52	320	1	0.06	9	0.04	2	98	0.27	83	55
294	12600	5	0.2	2.84	2	92	0.4	2	1.04	0.2	40	7	16	24	2.40	0.24	12	13	0.46	330	1	0.06	8	0.05	2	91	0.25	83	55
295	12650	5	0.4	2.61	2	68	0.4	2	1.32	0.2	41	6	19	20	2.18	0.16	12	9	0.45	283	1	0.05	9	0.05	2	111	0.25	84	40
296	12700	5	0.2	2.85	2	67	0.3	2	1.16	0.2	42	6	16	19	2.60	0.20	12	13	0.43	288	1	0.06	8	0.06	2	97	0.29	94	68
297	12700N-12750E	5	0.2	3.28	2	100	0.4	2	1.46	0.2	40	8	14	32	2.50	0.23	11	13	0.56	449	1	0.04	11	0.03	2	114	0.24	86	39
298	12700N-12800E	5	0.2	2.81	2	69	0.3	2	1.32	0.2	44	6	15	17	1.91	0.16	13	12	0.44	309	1	0.06	8	0.03	2	114	0.27	75	47
299	12850	5	0.2	2.92	2	58	0.4	2	2.10	0.2	44	6	12	18	2.02	0.17	12	11	0.37	367	1	0.05	7	0.03	2	150	0.28	81	48
2	12950	5	0.2	3.61	2	86	0.5	2	1.19	0.2	38	13	22	29	2.76	0.20	10	20	0.70	697	1	0.06	13	0.05	2	99	0.22	96	91
3	13000	5	0.2	3.12	2	71	0.4	2	1.42	0.2	39	6	17	22	2.09	0.18	10	13	0.50	279	1	0.05	9	0.03	2	122	0.24	82	88
4	12700N-13050E	5	0.2	3.14	2	78	0.4	2	1.37	0.2	38	7	16	22	2.60	0.18	10	13	0.56	300	1	0.05	10	0.06	2	121	0.24	100	66
5	12700N-13100E	5	0.2	2.63	2	81	0.4	2	1.00	0.2	34	7	14	30	2.17	0.23	8	9	0.58	259	1	0.03	10	0.05	2	84	0.18	75	37
6	12700N-13150E	5	0.2	2.20	2	56	0.3	2	0.96	0.2	33	5	16	16	1.73	0.13	9	7	0.29	194	1	0.04	7	0.03	2	80	0.20	70	31

T.T. No.	SAMPLE	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 [illegible]	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn p[illegible]
7	12700N-13[illegible]E	5	0.2	3.96	2	141	0.7	2	0.97	0.2	34	11	17	52	[illegible].64	0.22	10	20	0.71	408	1	0.05	18	0.08	2	56	0.15	87	[illegible]
8	12700N-13400E	5	0.2	3.39	2	84	0.5	2	1.23	0.2	40	8	26	30	3.36	0.19	11	14	0.54	307	1	0.04	14	0.06	2	105	0.24	105	58
9	13100N-8800E	5	0.2	1.94	14	101	0.4	2	0.68	0.2	31	14	71	31	2.08	0.29	9	14	0.93	534	1	0.05	46	0.02	2	42	0.14	73	44
10	13100N-8850E	5	0.2	3.12	14	180	0.5	4	0.82	0.2	41	22	135	66	3.28	0.28	11	19	2.02	593	1	0.06	94	0.03	3	42	0.17	105	55
11	8900	5	0.2	2.70	10	86	0.5	2	0.66	0.2	30	19	98	30	2.65	0.16	10	15	1.23	539	1	0.04	73	0.03	8	35	0.15	81	61
12	8950	45	0.2	3.42	73	92	0.5	2	0.89	1.1	31	28	187	85	3.53	0.26	8	18	2.01	688	1	0.05	116	0.03	7	33	0.17	107	142
13	9000	5	0.2	1.75	12	47	0.3	2	0.72	0.2	26	16	136	21	2.03	0.13	7	11	1.21	253	1	0.04	66	0.02	3	27	0.13	75	36
14	13100N-9050E	5	0.2	2.54	15	59	0.4	2	0.79	0.2	31	21	172	26	2.79	0.13	9	15	1.44	272	1	0.04	82	0.03	6	34	0.18	97	63
15	13100N-9100E	5	0.2	1.74	15	48	0.3	2	0.79	0.2	29	17	169	23	2.28	0.13	8	13	1.26	452	1	0.04	71	0.03	4	33	0.16	84	52
16	9150	5	0.2	1.77	8	47	0.3	2	0.50	0.2	30	7	85	12	1.86	0.14	9	13	0.48	181	1	0.05	20	0.03	5	36	0.16	69	38
17	9200	5	0.2	1.87	28	62	0.3	2	0.48	0.2	28	11	85	67	2.24	0.23	9	16	0.76	189	2	0.05	31	0.03	5	26	0.12	79	43
18	9250	5	0.2	2.36	27	62	0.4	2	0.53	0.2	28	11	104	55	2.62	0.21	9	17	0.74	208	1	0.05	34	0.06	7	31	0.16	84	56
19	13100N-9300E	5	0.2	1.52	21	53	0.3	2	0.46	0.2	26	7	51	42	1.66	0.16	8	10	0.47	199	1	0.05	19	0.04	5	30	0.13	60	45
20	13100N-9350E	10	0.2	1.86	28	59	0.3	2	0.52	0.2	27	10	63	30	1.99	0.16	7	12	0.51	220	1	0.05	22	0.05	8	33	0.14	68	57
21	9400	25	0.2	2.52	32	62	0.5	2	0.52	0.2	30	9	44	52	2.71	0.17	11	13	0.57	222	1	0.05	23	0.07	6	39	0.15	74	45
22	9450	10	0.2	2.47	64	72	0.4	2	0.50	0.2	30	8	40	35	2.57	0.19	9	15	0.53	245	1	0.06	18	0.05	6	40	0.16	77	75
23	9500	15	0.2	2.36	53	74	0.4	2	0.47	0.2	29	10	37	57	2.54	0.20	9	13	0.59	249	1	0.05	22	0.07	3	37	0.16	76	80
24	13100N-9550E	15	0.2	2.57	19	78	0.4	2	0.62	0.2	35	8	39	32	2.63	0.22	12	14	0.53	257	1	0.07	16	0.06	5	51	0.21	85	74
25	13100N-9600E	5	0.2	2.35	12	65	0.4	2	0.71	0.2	35	9	40	28	1.99	0.16	10	12	0.57	332	1	0.06	15	0.03	2	50	0.17	66	65
26	9650	5	0.2	2.41	15	84	0.4	2	1.01	0.2	32	12	34	55	2.73	0.28	8	13	0.90	465	1	0.05	23	0.04	5	65	0.16	94	57
27	9700	10	0.2	1.95	11	85	0.4	2	0.66	0.2	34	11	29	47	2.11	0.30	11	11	0.71	447	1	0.05	22	0.04	3	44	0.14	67	47
28	9750	5	0.2	3.10	4	138	0.5	2	0.66	0.2	36	9	23	21	2.25	0.45	11	17	0.63	391	1	0.09	13	0.07	5	57	0.15	65	74
29	13100N-9800E	5	0.2	2.62	4	170	0.5	2	0.73	0.2	33	7	11	17	1.86	0.60	9	15	0.52	590	1	0.04	9	0.03	6	57	0.10	50	50
30	13100N-9850E	5	0.2	2.99	4	110	0.4	2	0.74	0.2	34	11	30	19	2.50	0.35	11	15	0.71	404	1	0.05	16	0.05	6	55	0.16	75	72
31	9900	5	0.2	3.30	2	139	0.6	2	0.85	0.2	39	13	31	18	2.67	0.33	13	18	0.64	1089	1	0.06	16	0.10	8	66	0.18	84	94
32	9950	5	0.2	2.83	2	116	0.5	2	0.69	0.2	36	10	30	22	2.40	0.34	11	13	0.67	612	1	0.05	15	0.04	6	54	0.16	73	65
33	10000	5	0.4	3.04	2	151	0.6	2	0.73	0.2	39	10	24	21	2.30	0.43	12	16	0.70	865	1	0.07	15	0.10	6	53	0.16	67	78
34	13100N-10050E	5	0.4	3.21	2	163	0.5	2	0.62	0.2	40	9	30	14	2.21	0.46	13	14	0.58	853	1	0.05	13	0.06	5	47	0.15	62	86
35	13100N-10100E	5	0.4	2.55	2	135	0.5	2	0.68	0.2	37	12	19	29	2.56	0.42	11	14	1.02	752	1	0.05	17	0.07	8	52	0.18	92	79
36	10150	5	0.2	2.48	2	104	0.5	2	0.54	0.2	34	12	24	31	2.44	0.36	11	14	0.92	624	1	0.04	16	0.04	7	43	0.14	82	61
37	10200	5	0.2	3.15	2	166	0.5	2	0.61	0.2	35	12	24	20	2.47	0.46	10	15	0.75	989	1	0.06	17	0.06	8	47	0.14	76	77
38	10250	5	0.2	3.25	15	129	0.6	4	1.38	0.3	44	18	18	383	3.79	0.28	12	15	1.25	899	1	0.05	17	0.06	9	78	0.21	127	64
39	13100N-10300E	5	0.4	3.46	6	178	0.5	4	1.20	0.3	39	16	20	185	3.49	0.23	10	17	0.84	1138	1	0.06	18	0.10	9	56	0.19	141	79
40	13100N-10350E	5	0.6	3.54	8	145	0.7	2	1.03	0.2	42	13	23	83	3.22	0.34	12	16	0.89	967	1	0.05	17	0.11	11	75	0.19	94	68
41	10400	5	0.2	2.35	6	77	0.5	2	0.77	0.2	39	9	25	24	2.38	0.19	13	14	0.49	279	1	0.05	13	0.02	5	64	0.20	82	37
42	10450	5	0.2	2.85	10	102	0.5	2	0.86	0.2	37	10	44	27	2.88	0.25	12	16	0.60	428	1	0.06	14	0.04	6	76	0.24	100	57
43	10500	5	0.2	2.47	4	89	0.4	2	0.85	0.2	36	9	27	27	2.52	0.24	11	12	0.56	367	1	0.05	13	0.05	5	66	0.21	84	48
44	13100N-10550E	5	0.2	2.99	10	105	0.4	2	0.90	0.2	38	9	32	32	2.90	0.29	11	14	0.63	324	2	0.06	14	0.04	8	76	0.23	97	53
45	13100N-10600E	5	0.4	4.14	15	131	1.2	2	0.74	0.2	45	16	22	66	3.33	0.20	16	19	0.58	956	1	0.06	21	0.09	12	50	0.20	115	69
46	10650	5	0.2	2.68	5	80	0.5	2	0.95	0.2	42	10	23	25	2.26	0.19	14	15	0.58	435	1	0.06	14	0.04	11	70	0.24	81	63
47	10700	5	0.2	3.39	3	99	0.6	2	1.00	0.2	43	14	23	39	3.01	0.21	14	23	0.78	636	1	0.07	18	0.05	11	71	0.26	108	66
48	10750	5	0.4	3.58	9	116	0.7	2	1.14	0.2	43	15	24	50	2.97	0.20	14	20	0.79	706	1	0.06	20	0.06	10	73	0.24	105	63
49	13100N-10800E	5	0.4	2.40	9	70	0.4	2	1.20	0.2	40	7	23	26	2.05	0.20	12	15	0.44	285	1	0.06	11	0.06	9	82	0.24	79	36
51	13100N-10850E	5	0.2	2.85	7	85	0.5	2	1.16	0.2	40	11	33	27	2.74	0.22	13	17	0.68	397	1	0.07	20	0.06	7	81	0.26	94	64

T.T. No.	SAMPLE	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
52	13100N-1[illegible]E	5	0.2	2.57	2	79	0.4	2	1.11	0.2	41	10	28	48	[illegible].58	0.23	13	15	0.61	371	1	0.06	19	0.09	3	76	0.24	79	[illegible]
53	10950	5	0.2	3.01	2	113	0.5	2	1.01	0.2	41	13	27	42	2.78	0.26	13	15	0.68	785	1	0.06	19	0.10	2	74	0.24	85	75
54	11000	5	0.2	2.94	3	95	0.5	2	0.81	0.2	39	11	30	31	2.42	0.23	13	14	0.67	373	1	0.06	21	0.08	2	63	0.22	73	56
55	13100N-12000E	5	0.2	2.41	3	81	0.5	2	0.82	0.2	48	9	27	34	2.80	0.21	15	10	0.54	358	1	0.05	16	0.07	2	59	0.23	85	62
56	13100N-12050E	5	0.2	2.58	4	188	0.5	2	1.01	0.2	43	9	24	24	3.12	0.26	14	13	0.54	784	1	0.06	14	0.10	2	80	0.25	89	115
57	12100	5	0.2	2.36	5	100	0.5	2	0.82	0.2	41	8	22	34	2.64	0.19	14	10	0.56	413	1	0.05	16	0.07	2	60	0.22	77	59
58	12150	5	0.2	2.77	4	94	0.4	2	0.98	0.2	49	10	39	25	3.44	0.23	16	15	0.66	453	1	0.07	20	0.09	4	70	0.30	107	81
59	12200	5	0.4	2.65	6	85	0.4	3	0.99	0.2	36	11	27	31	2.73	0.23	10	16	0.70	458	1	0.07	21	0.08	3	63	0.23	89	83
60	13100N-12250E	5	0.2	2.55	8	95	0.4	2	1.04	0.2	43	12	31	30	2.57	0.24	13	14	0.66	561	1	0.07	21	0.09	5	69	0.24	87	96
61	13100N-12300E	5	0.2	2.51	2	76	0.6	2	1.12	0.2	42	12	38	39	2.80	0.17	14	11	0.70	492	1	0.06	24	0.08	7	72	0.23	91	64
62	12350	5	0.2	3.39	2	139	0.5	2	1.19	0.2	46	14	38	46	3.32	0.27	14	16	0.86	853	1	0.08	24	0.07	5	76	0.27	110	79
63	12400	5	0.2	2.99	2	103	0.4	2	1.00	0.2	37	11	27	31	3.12	0.27	10	16	0.81	554	1	0.07	19	0.07	6	63	0.26	102	71
64	12450	5	0.2	2.51	2	130	0.4	2	0.97	0.2	42	10	28	26	2.71	0.24	14	16	0.59	919	1	0.07	14	0.08	5	71	0.26	92	73
65	13100N-12500E	5	0.2	2.85	2	90	0.5	2	1.17	0.2	54	12	39	39	3.27	0.24	18	15	0.78	435	1	0.07	23	0.11	6	76	0.30	104	64
66	13100N-12550E	5	0.2	2.94	2	115	0.4	2	1.37	0.2	41	14	18	23	2.79	0.20	12	18	0.83	933	1	0.06	14	0.04	7	85	0.26	100	86
67	12600	5	0.2	2.15	2	77	0.3	2	0.88	0.2	37	7	24	17	2.44	0.19	11	12	0.56	302	1	0.06	13	0.07	7	57	0.23	79	59
68	12650	5	0.4	2.93	2	76	0.4	2	1.43	0.2	42	10	30	19	2.64	0.17	11	15	0.88	470	1	0.08	21	0.03	6	75	0.25	76	80
69	12700	5	0.4	2.76	3	82	0.4	2	1.20	0.2	44	12	46	21	3.07	0.22	13	16	0.88	461	1	0.12	26	0.10	10	67	0.30	104	93
70	13100N-12750E	5	0.4	2.28	2	76	0.3	2	1.02	0.2	46	8	39	15	2.33	0.17	12	11	0.56	298	1	0.08	18	0.06	7	64	0.26	89	56
71	13100N-12800E	5	0.2	3.05	2	163	0.6	2	1.02	0.2	43	11	35	22	2.84	0.16	15	23	0.65	325	1	0.06	21	0.03	6	68	0.24	85	56
72	12850	5	0.2	3.20	3	96	0.6	2	0.82	0.2	41	11	31	29	3.03	0.22	14	15	0.66	329	1	0.06	19	0.08	7	63	0.25	85	77
73	12900	35	0.2	4.05	3	103	0.6	2	0.88	0.2	43	11	32	32	3.47	0.24	15	17	0.68	345	1	0.07	20	0.08	8	64	0.27	98	77
74	12950	10	0.2	2.57	2	72	0.3	2	0.93	0.2	39	6	19	13	2.02	0.19	13	9	0.46	278	1	0.07	10	0.03	6	70	0.25	72	44
75	13100N-13100E	5	0.2	2.53	4	70	0.3	2	1.02	0.2	37	6	19	16	1.82	0.15	11	10	0.40	224	1	0.05	10	0.03	5	76	0.23	67	52
76	13100N-13150E	5	0.2	2.90	3	75	0.4	2	1.04	0.2	40	8	19	17	2.48	0.17	12	19	0.53	292	1	0.06	10	0.03	7	76	0.24	75	71
77	13200	5	0.2	2.79	7	99	0.4	2	1.02	0.2	38	8	15	20	2.54	0.23	11	12	0.58	305	1	0.05	9	0.03	9	71	0.22	76	53
78	13100N-13300E	5	0.2	2.21	3	60	0.3	2	1.12	0.2	33	6	18	12	1.87	0.15	8	11	0.45	281	1	0.07	10	0.03	5	71	0.21	77	75

NORANDA VANCOUVEF 'ABORATORY

Geochemical Analysis

Project Name & No.: NEWMAC - 123 Geol.: G.G. Date rec'd: AUGUST 13 LAB CODE: 9008-042

Material: 346 SOILS Sheet: 1 of 9 Date compl: AUGUST 30

Remarks: • Sample screened @ -35 MESH (.05 mm)

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 HClO4/HNO3 (4:1) at 203 °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, Ga, La, Li are rarely dissolved completely from geological materials with acid dissolution methods.

T.T.	SAMPLE	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sr	Ti	V	Zn
No.	No.	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm
2	10700N-9650E	10	0.2	4.16	15	114	0.6	2	0.49	0.2	36	9	33	32	3.46	0.34	15	16	0.71	463	1	0.07	15	0.08	8	51	0.24	97	114
3	9700	5	0.2	4.20	17	124	0.6	2	0.53	0.2	38	13	50	51	4.11	0.34	15	18	0.97	449	1	0.06	29	0.08	11	45	0.25	110	112
4	9750	5	0.2	5.18	22	174	0.6	2	0.50	0.2	36	16	35	45	4.23	0.51	14	20	1.12	612	1	0.06	25	0.06	14	42	0.25	116	163
5	9800	5	0.2	3.42	3	124	0.5	2	0.75	0.2	40	10	31	30	2.99	0.32	14	19	0.63	785	1	0.09	14	0.07	13	72	0.28	108	126
6	10700N-9850E	5	0.2	3.87	19	114	0.5	2	0.94	0.2	41	13	28	47	3.21	0.29	15	23	0.85	605	1	0.09	20	0.07	11	75	0.30	116	111
7	10700N-9900E	50	0.4	5.91	128	166	0.8	3	0.90	0.8	40	35	34	1398	5.79	0.46	13	24	1.40	696	8	0.05	46	0.10	16	45	0.24	147	115
8	9950	30	1.0	4.40	30	101	0.5	2	0.77	0.2	36	11	60	397	4.34	0.36	12	25	1.04	353	1	0.10	43	0.08	9	59	0.29	120	87
9	10000	15	0.6	4.09	8	115	0.5	2	0.74	0.2	40	10	42	203	3.31	0.39	14	22	0.86	349	1	0.10	24	0.07	9	61	0.28	101	88
10	10250	25	0.2	3.80	2	139	0.4	2	0.52	0.2	38	11	42	28	3.59	0.46	14	15	1.14	510	1	0.06	21	0.05	9	46	0.21	88	105
11	10700N-10300E	5	0.4	3.95	7	114	0.7	3	0.56	0.2	35	11	38	34	3.93	0.39	14	17	0.94	472	1	0.06	22	0.08	10	45	0.21	87	102
12	10700N-10350E	5	0.2	3.83	2	136	0.8	2	0.63	0.2	39	11	35	32	2.89	0.41	16	17	0.89	447	1	0.08	18	0.05	12	61	0.22	86	93
13	10400	5	0.4	4.47	2	144	0.7	2	0.47	0.2	33	17	36	37	3.86	0.47	13	16	1.20	847	1	0.06	20	0.08	12	43	0.19	101	100
14	10450	10	0.2	4.60	2	151	0.5	2	0.65	0.2	31	14	36	68	4.40	0.53	10	19	1.58	673	1	0.06	28	0.08	11	49	0.19	116	112
15	10500	5	0.2	4.35	2	147	0.5	2	0.58	0.2	32	11	39	43	3.98	0.48	12	18	1.22	514	1	0.06	21	0.12	8	50	0.20	102	111
16	10700N-10550E	5	0.4	4.26	2	132	0.5	2	0.69	0.2	38	11	38	34	3.91	0.38	14	22	0.84	445	1	0.07	19	0.08	9	61	0.27	111	118
17	10700N-10600E	5	0.4	4.53	5	143	0.5	2	0.74	0.2	33	14	40	54	3.76	0.43	11	17	1.27	933	1	0.05	25	0.09	11	58	0.20	106	122
18	10650	45	0.2	4.45	2	109	0.5	2	0.67	0.2	34	9	30	24	3.77	0.40	12	18	0.85	509	1	0.05	17	0.09	11	55	0.22	98	88
19	10700	5	0.2	3.61	2	86	0.4	2	0.70	0.2	32	7	26	18	3.16	0.31	11	15	0.52	358	1	0.05	11	0.07	10	55	0.21	86	68
20	10750	5	0.2	4.26	2	109	0.5	2	0.78	0.2	41	10	35	26	3.81	0.34	15	19	0.74	406	1	0.06	18	0.11	12	64	0.25	98	94
21	10700N-10800E	10	0.2	4.33	2	150	0.9	2	0.80	0.2	42	15	33	49	3.68	0.37	17	17	0.93	517	1	0.06	25	0.07	12	65	0.24	99	100
22	10700N-10850E	5	0.2	4.48	3	119	0.8	2	0.76	0.2	40	11	34	39	3.62	0.31	16	19	0.74	438	1	0.06	19	0.11	12	64	0.25	99	92
23	10900	5	0.4	4.34	14	177	0.7	2	1.14	0.2	40	12	33	35	3.47	0.47	13	17	0.85	402	1	0.06	22	0.08	11	77	0.23	101	87
24	10950	5	0.8	4.86	13	255	1.2	3	1.37	1.0	53	16	32	131	3.92	0.32	47	32	0.86	1739	1	0.07	23	0.20	13	67	0.21	126	118
25	11000	5	0.4	4.04	6	127	0.6	3	1.05	0.4	42	13	32	34	4.11	0.34	15	20	0.86	470	1	0.07	19	0.08	9	82	0.27	130	140
26	10700N-11050E	5	0.2	4.00	3	123	0.6	2	0.97	0.2	42	12	25	47	3.36	0.47	13	13	1.01	401	1	0.05	20	0.07	9	67	0.20	94	71
27	10700N-11100E	5	0.4	3.47	10	96	0.6	4	1.32	0.2	43	16	35	37	4.10	0.26	14	21	0.97	588	1	0.07	24	0.09	9	95	0.31	137	76
28	11150	5	0.6	3.69	7	140	0.7	3	1.51	0.2	49	13	34	45	3.32	0.33	18	13	1.01	616	1	0.06	25	0.09	8	105	0.29	115	58
29	11200	5	0.2	3.76	7	119	0.5	4	1.47	0.2	45	15	36	33	3.68	0.30	14	21	1.03	486	1	0.07	26	0.07	10	107	0.30	119	104
30	11250	5	0.2	3.23	9	147	0.5	3	1.36	0.2	49	12	38	32	2.84	0.26	16	13	0.94	459	1	0.06	26	0.04	14	101	0.28	91	58
31	10700N-11300E	5	0.2	3.83	6	130	0.8	2	1.27	0.2	40	15	40	35	3.33	0.30	16	19	0.87	479	1	0.07	28	0.08	9	106	0.30	107	83
32	10700N-11350E	25	0.2	4.05	10	124	0.8	2	1.09	0.2	40	12	38	36	3.37	0.32	15	19	0.77	527	1	0.08	22	0.10	13	95	0.31	110	95
33	11400	5	0.2	4.01	9	98	0.7	2	1.26	0.2	43	14	43	48	3.54	0.23	16	17	0.85	497	1	0.07	28	0.15	11	87	0.31	109	82
34	11450	5	0.4	4.14	15	146	0.8	3	1.50	0.2	53	19	53	133	3.89	0.23	19	16	1.17	479	1	0.07	50	0.07	9	94	0.34	127	69
35	11500	5	0.2	3.70	9	118	0.8	3	1.82	0.3	50	25	58	68	3.95	0.28	19	17	1.18	1120	1	0.09	47	0.20	15	99	0.35	117	110
36	10700N-11750E	5	0.6	1.68	6	170	0.4	2	2.10	0.2	32	18	27	36	2.00	0.30	9	8	0.43	1483	1	0.05	11	0.29	9	90	0.18	62	60

T.T. No.	SAMPLE	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
37	10700N-11[illegible]	5	0.2	4.96	17	120	0.9	5	1.36	0.5	50	25	29	185	[illegible].85	0.27	15	19	1.48	938	1	0.08	33	0.13	18	79	0.34	163	99
38	11850	5	0.2	2.85	3	106	0.6	2	1.63	0.2	62	14	35	47	3.90	0.23	22	12	1.01	666	1	0.08	21	0.08	10	91	0.40	123	75
39	10700N-11900E *	60	0.8	4.19	14	96	0.7	7	2.40	0.9	49	20	30	537	4.62	0.31	15	14	1.45	1172	1	0.08	29	0.14	65	112	0.37	149	161
40	10900N-8700E	5	0.2	4.46	7	92	0.5	5	0.96	0.3	35	29	237	60	4.33	0.20	12	15	2.54	426	1	0.06	140	0.08	12	48	0.27	118	91
41	10900N-8750E	5	0.2	3.84	2	77	0.7	2	0.95	0.2	37	27	301	54	3.92	0.20	15	13	2.15	385	1	0.06	124	0.09	4	50	0.28	113	75
42	10900N-8800E	5	0.2	3.94	2	57	0.7	4	1.47	0.2	34	34	383	90	4.25	0.13	12	9	3.01	495	1	0.05	165	0.07	2	39	0.26	124	70
43	8850	5	0.2	3.45	2	106	0.5	2	1.14	0.2	33	18	231	44	3.94	0.23	12	13	1.59	562	1	0.08	75	0.09	4	53	0.32	133	69
44	8900	5	0.2	3.80	2	98	0.5	2	1.20	0.2	33	20	163	41	3.48	0.24	11	15	1.44	537	1	0.07	69	0.06	3	51	0.28	114	86
45	8950	5	0.2	4.04	7	164	0.5	2	0.65	0.2	28	21	136	49	4.08	0.51	10	16	1.48	857	1	0.07	49	0.08	5	39	0.14	119	81
46	10900N-9000E	5	0.2	4.55	2	71	0.5	2	1.37	0.2	35	37	220	92	4.68	0.19	11	17	3.07	730	1	0.06	145	0.07	2	36	0.22	124	78
47	10900N-9050E	5	0.2	3.48	2	100	0.4	2	1.11	0.2	35	17	210	34	3.80	0.26	12	19	1.31	475	1	0.07	58	0.06	3	50	0.29	147	70
48	9100	5	0.2	3.45	2	100	0.4	2	1.22	0.2	37	15	109	35	3.21	0.25	13	17	1.10	551	1	0.07	43	0.06	2	49	0.20	106	74
49	9150	5	0.2	3.10	2	101	0.4	2	0.83	0.2	43	9	82	20	3.06	0.26	17	18	0.75	301	1	0.07	23	0.07	3	63	0.26	107	81
51	9200	5	0.2	3.42	2	119	0.6	2	0.62	0.2	43	9	66	25	3.13	0.31	20	19	0.67	377	1	0.07	22	0.08	8	62	0.27	103	72
52	10900N-9250E	5	0.2	3.82	19	151	0.8	2	0.62	0.2	47	11	45	28	3.70	0.42	21	21	0.65	521	1	0.08	19	0.08	12	62	0.27	94	179
53	10900N-9300E	5	0.4	4.00	11	139	0.6	2	0.56	0.2	40	11	27	35	3.52	0.40	17	17	0.70	415	1	0.07	17	0.08	9	51	0.24	87	176
54	9350	5	0.2	3.41	2	118	0.5	2	0.51	0.2	36	7	39	24	3.23	0.35	15	17	0.56	421	1	0.07	12	0.10	6	54	0.25	91	95
55	9400	5	0.4	3.74	4	114	0.5	2	0.55	0.2	40	9	39	28	3.87	0.33	16	19	0.63	483	1	0.07	19	0.12	9	52	0.28	98	136
56	9450	5	0.2	3.78	4	111	0.5	2	0.52	0.2	38	7	31	21	3.24	0.34	15	17	0.52	543	1	0.07	11	0.10	8	54	0.26	95	111
57	10900N-9500E	5	0.2	3.66	8	116	0.4	2	0.52	0.2	37	7	36	25	3.33	0.35	14	17	0.59	440	1	0.07	13	0.09	10	51	0.24	93	101
58	10900N-9550E	5	0.2	3.60	22	128	0.4	2	0.48	0.2	33	7	57	53	3.40	0.43	12	13	0.64	293	1	0.07	14	0.09	9	39	0.21	102	81
59	9600	5	0.2	3.86	4	118	0.5	2	0.59	0.2	40	10	46	26	3.33	0.39	15	17	0.69	552	1	0.06	18	0.11	10	50	0.24	95	142
60	9650	5	0.2	3.45	4	123	0.4	2	0.59	0.2	44	8	38	18	3.11	0.33	16	16	0.55	741	1	0.07	12	0.07	13	59	0.26	101	105
61	9700	5	0.2	5.10	14	167	0.8	2	0.44	0.2	38	15	33	41	4.03	0.48	16	20	1.00	498	1	0.06	22	0.07	12	41	0.24	107	172
62	10900N-9750E	5	0.2	3.89	14	129	0.7	3	0.60	0.2	41	14	32	29	3.66	0.37	17	20	0.67	1064	1	0.07	16	0.08	14	55	0.25	104	166
63	10900N-9800E	5	0.2	4.28	14	134	0.6	2	0.56	0.2	40	12	36	35	3.78	0.41	16	20	0.84	437	1	0.06	19	0.07	11	48	0.26	106	137
64	9850	5	0.2	4.15	24	109	0.7	3	0.68	0.2	39	13	52	139	4.34	0.30	15	20	0.88	352	1	0.07	35	0.11	10	53	0.27	112	100
65	9900	5	0.2	3.52	17	121	0.5	3	0.83	0.2	41	11	47	117	3.70	0.33	15	14	0.68	363	1	0.07	24	0.07	11	58	0.28	121	76
66	9950	5	0.4	4.00	18	96	0.5	5	0.70	0.3	40	13	94	85	4.36	0.29	14	19	0.92	381	1	0.07	36	0.09	13	51	0.30	126	84
67	10900N-10000E	5	0.2	4.54	77	67	0.7	6	1.08	1.4	38	28	64	220	7.27	0.19	11	16	0.66	519	2	0.05	41	0.20	14	51	0.23	134	87
68	10900N-10050E	30	0.2	3.88	10	97	0.5	5	1.36	0.5	47	12	46	38	3.90	0.31	15	18	0.72	404	1	0.07	26	0.07	12	71	0.29	104	104
69	10100	35	0.2	3.92	141	107	0.5	6	0.79	0.2	41	12	85	212	4.10	0.31	13	15	0.80	316	5	0.09	43	0.07	14	61	0.26	105	101
70	10150	5	0.2	3.52	7	93	0.4	4	0.77	0.2	38	9	40	55	3.70	0.31	12	16	0.69	371	1	0.07	19	0.07	12	63	0.26	121	76
71	10200	40	0.2	3.72	7	97	0.6	2	0.49	0.2	31	8	42	25	3.79	0.28	13	17	0.75	383	1	0.06	16	0.08	10	50	0.22	103	91
72	10900N-10250E	45	0.2	3.98	11	134	0.6	2	0.51	0.2	33	10	40	42	4.09	0.41	14	17	1.00	488	1	0.06	22	0.06	10	44	0.22	99	112
73	10900N-10300E	20	0.2	4.09	14	118	0.6	2	0.61	0.2	39	10	40	98	4.12	0.32	16	20	0.74	421	1	0.08	21	0.09	11	57	0.28	112	107
74	10350	5	0.2	4.07	4	125	0.6	2	0.59	0.2	38	9	35	56	4.30	0.33	15	21	0.83	428	1	0.07	18	0.12	10	55	0.25	107	98
75	10400	5	0.2	3.74	13	156	0.5	2	0.90	0.3	39	11	41	71	4.32	0.41	14	19	0.77	1299	1	0.06	20	0.10	11	59	0.27	134	140
76	10450 *	5	0.4	0.95	2	59	0.2	2	1.13	0.2	24	3	24	17	0.65	0.18	5	5	0.13	90	1	0.04	5	0.11	4	43	0.06	27	50
77	10900N-10500E	5	0.2	4.34	18	129	0.5	3	0.72	0.2	37	13	67	57	4.40	0.35	13	22	0.96	479	1	0.07	30	0.09	10	56	0.29	138	134
78	10900N-10550E	5	0.4	4.40	5	147	0.6	3	0.79	0.2	41	14	67	109	4.29	0.34	14	20	1.05	540	1	0.07	39	0.10	13	59	0.28	121	95
79	10600	5	0.2	4.21	14	121	0.5	4	0.73	0.2	40	12	45	79	3.91	0.38	14	16	1.02	501	1	0.06	28	0.09	16	53	0.23	98	100
80	10650	5	0.2	3.83	7	115	0.5	2	0.64	0.2	40	10	49	104	3.55	0.32	14	17	0.75	477	1	0.06	22	0.10	15	53	0.24	96	82
81	10900N-10700E	5	0.2	3.63	5	98	0.7	2	0.83	0.2	37	10	31	35	3.41	0.30	15	15	0.78	427	1	0.05	18	0.06	7	66	0.22	98	75

T.T. No.	SAMPLE	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
82	10900N-10[illegible]E	5	0.2	3.79	2	132	0.8	2	0.82	0.2	43	12	33	30	[illegible].90	0.32	18	18	0.81	589	2	0.07	18	0.05	9	68	0.25	88	103
83	10900N-10800E	5	0.2	4.30	5	126	0.8	2	1.03	0.2	44	14	35	91	4.08	0.34	16	19	1.00	569	1	0.06	25	0.12	10	79	0.26	111	103
84	10900	5	0.2	4.36	2	136	0.7	2	1.35	0.2	38	25	28	65	4.11	0.38	12	19	0.99	1793	1	0.07	20	0.20	9	94	0.22	115	130
85	10950	5	0.2	4.69	2	146	0.7	2	1.82	0.2	42	18	25	78	4.06	0.31	14	17	1.03	707	1	0.06	18	0.08	5	141	0.27	121	98
86	11000	5	0.2	4.08	2	126	0.6	2	1.51	0.2	40	17	27	83	3.76	0.25	14	15	1.01	972	1	0.06	18	0.10	5	110	0.26	118	92
87	10900N-11050E	5	0.4	3.55	2	107	0.5	2	1.66	0.2	43	13	27	41	3.37	0.21	15	15	1.01	638	1	0.06	16	0.05	5	120	0.27	121	69
88	10900N-11100E	5	0.2	3.42	30	118	0.6	3	1.72	0.2	45	11	34	41	3.23	0.26	16	14	1.07	452	1	0.06	21	0.07	4	109	0.28	119	64
89	11150	5	0.4	4.02	17	113	1.1	2	1.47	0.2	52	18	43	83	3.54	0.27	23	16	0.83	1069	1	0.06	25	0.08	8	100	0.29	130	72
90	11200	60	0.2	2.81	6	107	0.4	2	1.36	0.2	43	8	39	29	3.05	0.24	14	13	0.62	369	1	0.06	16	0.12	4	98	0.29	104	70
91	11250	5	0.2	3.18	9	96	0.7	2	1.37	0.2	46	12	42	37	3.74	0.22	18	18	0.83	445	1	0.06	28	0.11	6	94	0.31	116	68
92	10900N-11300E	5	0.2	2.93	20	80	0.6	2	1.56	0.2	42	12	41	36	3.38	0.20	16	17	0.74	439	1	0.06	23	0.14	7	92	0.30	112	73
93	10900N-11350E	5	0.2	4.25	24	168	0.7	2	1.40	0.2	47	18	45	83	3.52	0.29	18	16	1.02	876	1	0.06	41	0.10	8	100	0.31	125	61
94	11400	5	0.2	3.31	11	96	0.6	2	1.58	0.2	45	14	35	164	3.51	0.23	15	11	1.04	460	1	0.06	32	0.08	6	109	0.29	114	54
95	11450	5	0.2	3.31	4	130	0.6	2	1.54	0.2	45	18	44	44	3.67	0.25	16	18	1.06	692	1	0.08	36	0.11	6	88	0.32	111	93
96	11500	5	0.2	3.30	6	122	0.7	2	1.55	0.2	72	18	49	55	3.79	0.28	26	14	0.90	732	1	0.07	31	0.13	6	94	0.35	115	73
97	10900N-11550E	5	0.2	3.05	5	90	0.5	2	1.57	0.2	51	14	37	51	3.64	0.21	17	12	0.89	457	1	0.07	27	0.07	5	96	0.34	113	64
98	10900N-11600E	5	0.2	2.93	3	89	0.6	2	1.63	0.2	47	13	48	50	3.14	0.19	16	10	0.78	498	1	0.06	26	0.21	5	90	0.29	96	58
99	11650	5	0.2	3.81	4	109	0.7	3	2.29	0.2	53	21	55	65	3.92	0.26	17	14	1.22	986	1	0.08	45	0.14	7	124	0.35	120	70
101	10900N-11700E	5	0.2	3.49	2	87	0.8	4	2.39	0.2	53	22	47	51	3.85	0.18	18	12	1.04	899	1	0.07	52	0.09	6	143	0.40	124	58
102	11100N-8900E *	5	0.2	0.34	6	20	0.3	2	1.75	0.2	22	3	23	14	0.64	0.05	4	3	0.30	84	1	0.03	8	0.08	2	58	0.02	33	43
103	11100N-8950E	5	0.2	4.53	2	89	0.7	3	0.95	0.2	36	32	261	79	4.43	0.20	14	12	2.60	490	1	0.06	142	0.09	4	41	0.26	128	78
104	11100N-9000E *	5	0.2	4.44	2	96	0.6	2	1.67	0.2	34	20	135	84	3.83	0.24	10	17	1.70	780	1	0.06	86	0.13	6	52	0.16	147	75
105	9050	5	0.2	4.09	2	78	0.5	2	1.33	0.2	33	25	218	54	4.40	0.19	11	15	2.43	385	1	0.06	117	0.05	3	39	0.25	133	70
106	9100 *	5	0.2	6.08	2	107	0.7	3	1.17	0.2	38	26	135	96	4.65	0.23	14	24	2.31	1272	1	0.06	122	0.07	4	44	0.18	159	79
107	9150	5	0.2	4.00	2	99	0.5	2	0.68	0.2	34	15	105	38	3.48	0.30	14	17	1.12	353	1	0.06	47	0.13	5	43	0.23	88	112
108	11100N-9200E	5	0.4	3.87	26	130	0.5	2	0.57	0.2	35	8	35	40	3.58	0.40	14	19	0.59	364	1	0.07	11	0.12	5	50	0.24	82	128
109	11100N-9250E	5	0.2	3.60	13	113	0.5	2	0.51	0.2	39	7	37	27	3.38	0.33	16	15	0.52	308	1	0.06	11	0.08	7	47	0.24	78	96
110	9300	5	0.2	4.07	4	113	0.6	2	0.53	0.2	37	10	35	28	3.33	0.36	15	17	0.63	377	1	0.06	15	0.11	7	47	0.23	80	201
111	9350	5	0.2	3.85	10	122	0.5	2	0.58	0.2	36	8	35	25	3.00	0.36	15	20	0.64	441	1	0.08	13	0.10	10	57	0.24	86	143
112	9400	5	0.2	3.71	17	103	0.6	2	0.49	0.2	33	8	35	35	3.26	0.30	14	16	0.58	346	1	0.07	14	0.10	9	47	0.23	87	117
113	11100N-9450E	5	0.2	3.97	8	106	0.7	2	0.50	0.2	33	13	55	43	3.64	0.36	14	16	0.88	418	1	0.06	24	0.08	8	40	0.19	106	81
114	11100N-9500E	5	0.2	4.18	5	145	0.5	2	0.45	0.2	31	8	51	21	3.19	0.47	12	17	0.57	445	1	0.11	12	0.07	11	49	0.18	119	75
115	9550	5	0.2	3.89	7	129	0.6	2	0.83	0.2	39	11	50	32	3.11	0.30	15	15	0.90	429	1	0.08	26	0.04	9	56	0.21	91	96
116	9650	5	0.4	4.44	25	149	0.7	4	0.50	0.2	41	14	46	55	3.96	0.39	17	16	0.88	401	1	0.07	27	0.09	14	45	0.25	100	127
117	9700	25	0.2	4.91	22	149	0.6	3	0.54	0.2	35	14	72	45	4.17	0.43	14	19	1.08	447	1	0.07	31	0.12	12	41	0.23	101	171
118	11100N-9750E	5	0.2	4.21	14	117	0.5	3	0.60	0.2	37	13	42	31	3.71	0.37	15	20	0.78	409	1	0.07	20	0.07	12	49	0.25	96	227
119	11100N-9800E	15	0.2	4.74	27	136	0.6	4	0.55	0.2	34	15	49	72	4.22	0.39	13	18	0.95	478	1	0.06	33	0.10	12	42	0.23	110	124
120	9850	5	0.4	4.34	28	121	0.6	2	0.63	0.2	39	13	53	98	4.45	0.30	15	18	0.89	439	4	0.07	30	0.08	11	49	0.25	116	125
121	9900	5	0.4	4.09	11	103	0.6	2	0.69	0.2	35	12	79	70	3.84	0.32	14	18	0.79	457	1	0.07	24	0.08	9	55	0.26	119	95
122	9950	500	1.0	4.40	78	124	0.9	3	1.13	0.8	41	33	39	1080	5.05	0.44	14	16	1.18	1140	9	0.06	34	0.09	11	51	0.18	116	90
123	11100N-10000E	10	0.2	3.78	14	104	0.6	2	0.70	0.2	37	11	55	73	3.64	0.29	14	17	0.68	582	1	0.07	22	0.08	11	56	0.26	106	94
124	11100N-10450E	5	0.2	3.37	4	107	0.4	2	0.83	0.2	42	10	48	79	3.09	0.28	16	17	0.68	409	1	0.07	20	0.05	10	62	0.26	102	71
125	11100N-10500E	5	0.2	3.04	10	81	0.4	2	0.94	0.2	43	7	32	79	2.32	0.24	19	18	0.52	311	1	0.07	11	0.03	8	72	0.22	82	60

T.T. No.	SAMPLE	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppr	Fe \	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn pp
126	11100N–10[illegible]E	5	0.2	3.39	3	99	0.5	3	1.01	0.2	43	9	37	32	[illegible].26	0.30	16	19	0.64	377	1	0.06	15	0.14	11	74	0.25	99	108
127	10600	5	0.2	3.90	3	140	0.7	3	0.73	0.2	47	15	31	42	3.53	0.33	18	18	1.00	804	1	0.06	17	0.07	9	57	0.22	90	122
128	11100N–10650E *	5	0.2	3.78	2	134	0.6	2	0.84	0.2	43	11	23	30	2.97	0.39	16	18	0.73	1001	1	0.05	15	0.11	12	59	0.22	71	108
129	11100N–10700E	5	0.2	4.15	2	138	0.6	2	0.76	0.2	44	13	22	24	3.38	0.36	16	21	0.69	993	1	0.06	12	0.10	18	65	0.24	80	132
130	10750	5	0.2	3.76	3	98	0.6	3	0.79	0.2	48	10	25	28	3.25	0.34	18	18	0.73	477	1	0.05	13	0.08	12	62	0.25	79	97
131	10800	5	0.2	3.83	2	112	0.7	2	0.82	0.2	40	11	30	27	3.10	0.38	16	19	0.67	969	1	0.06	14	0.11	10	71	0.24	82	132
132	10850	40	0.2	4.53	10	156	1.0	2	0.93	0.2	45	13	28	43	3.63	0.38	19	21	0.84	1542	1	0.06	17	0.10	13	79	0.27	97	120
133	11100N–10900E	5	0.2	4.24	2	108	0.7	2	0.84	0.2	40	10	23	34	3.41	0.36	16	21	0.72	519	1	0.06	13	0.10	9	77	0.26	89	83
134	11100N–10950E	5	0.2	4.60	5	122	0.9	4	1.06	0.2	44	14	22	52	4.13	0.30	16	21	0.92	675	1	0.06	13	0.15	11	94	0.28	107	102
135	11000	5	0.2	4.01	6	112	0.7	4	1.68	0.2	49	13	26	63	3.71	0.27	17	14	0.87	705	1	0.05	15	0.09	10	130	0.27	118	86
136	11050	5	0.2	4.43	6	138	0.5	2	1.14	0.2	38	10	20	30	3.25	0.41	13	24	0.70	892	1	0.08	11	0.09	12	100	0.25	101	107
137	11100	15	0.4	5.00	7	138	0.9	3	1.47	0.2	43	17	35	72	4.14	0.33	14	20	1.13	1017	1	0.07	27	0.11	13	102	0.32	135	101
138	11100N–11150E	5	0.2	4.16	6	165	0.7	6	1.40	0.2	39	17	36	51	3.92	0.32	12	18	1.09	1899	1	0.08	28	0.13	12	82	0.30	123	116
139	11100N–11200E	5	0.2	4.41	12	174	0.9	6	1.51	0.2	46	16	38	71	3.76	0.26	16	17	1.14	680	1	0.08	32	0.11	12	92	0.33	118	84
140	11250	5	0.2	3.74	6	88	0.8	5	1.60	0.2	50	16	55	66	3.60	0.19	18	14	1.05	627	1	0.07	38	0.11	10	85	0.35	121	71
141	11300	15	0.2	4.03	7	101	0.9	4	1.74	0.2	49	18	66	63	3.98	0.25	18	19	1.17	825	1	0.09	43	0.13	10	102	0.38	128	92
142	11350	5	0.2	4.14	16	168	1.1	2	1.34	0.2	43	19	52	55	3.48	0.27	15	28	0.89	2210	1	0.07	31	0.19	11	82	0.27	131	113
143	11100N–11400E	5	0.2	3.52	7	90	0.8	2	1.77	0.2	54	17	54	58	3.79	0.23	20	13	1.01	796	1	0.06	32	0.12	8	117	0.35	122	65
144	11100N–11450E	5	0.2	3.72	11	98	0.7	3	1.66	0.2	37	17	48	49	3.82	0.24	12	16	1.12	1081	1	0.07	33	0.15	10	102	0.31	120	84
145	11500	5	0.2	3.09	5	98	0.6	2	1.50	0.2	47	12	34	38	3.52	0.23	15	10	0.87	522	1	0.06	21	0.09	8	100	0.31	109	59
146	11550	5	0.2	5.74	19	215	1.0	4	1.61	0.2	50	22	43	77	4.19	0.52	17	20	1.38	917	1	0.07	40	0.13	15	102	0.33	119	92
147	11600	5	0.2	3.75	5	158	0.7	4	2.19	0.2	41	23	43	53	3.96	0.28	12	15	1.12	1601	1	0.07	32	0.15	10	132	0.33	123	87
148	11100N–11650E	5	0.2	3.41	9	165	0.6	3	1.42	0.2	36	20	39	43	3.87	0.33	11	18	1.01	2085	1	0.06	25	0.28	13	97	0.32	115	146
149	11100N–11700E	5	0.2	4.21	7	126	0.7	2	1.55	0.2	47	12	26	48	3.26	0.34	16	11	0.80	541	1	0.05	18	0.08	13	125	0.28	91	68
152	11750	5	0.2	3.71	3	142	0.7	2	1.44	0.2	51	11	24	33	3.03	0.39	19	11	0.73	623	1	0.06	17	0.09	9	116	0.29	90	61
153	11800	5	0.4	2.77	10	128	0.6	2	0.91	0.2	28	6	22	43	2.34	0.31	10	8	0.43	421	1	0.05	9	0.27	4	86	0.21	75	70
154	11850	5	0.2	3.50	3	79	0.5	2	1.30	0.2	40	7	24	31	2.99	0.23	14	16	0.52	374	1	0.06	10	0.11	6	118	0.30	91	98
155	11100N–11900E	5	0.2	3.50	3	116	0.6	2	1.20	0.2	40	7	22	35	2.75	0.32	15	12	0.57	550	1	0.06	11	0.15	7	107	0.31	95	67
156	11100N–11950E	5	0.4	3.43	6	103	0.5	2	1.19	0.2	42	8	23	30	3.21	0.30	16	17	0.67	409	1	0.06	14	0.08	9	105	0.30	91	70
157	12000	5	0.2	3.68	4	115	0.6	2	1.35	0.2	39	11	22	56	3.39	0.27	13	14	0.79	466	1	0.05	17	0.10	5	106	0.28	100	74
158	12050	5	0.2	3.75	4	106	0.5	2	1.26	0.2	40	8	20	39	3.19	0.28	14	16	0.64	421	1	0.06	13	0.08	12	117	0.31	97	58
159	12100	5	0.4	2.91	3	105	0.4	2	1.23	0.2	37	5	19	26	2.08	0.25	13	7	0.35	274	1	0.06	7	0.09	4	116	0.30	84	40
160	11100N–12150E	5	0.2	3.51	9	109	0.5	2	1.62	0.2	43	11	30	34	3.40	0.27	15	13	0.76	510	1	0.06	18	0.06	5	130	0.33	112	63
161	11100N–12200E	5	0.2	3.36	2	109	0.5	2	1.31	0.2	39	8	24	42	3.28	0.26	14	13	0.64	508	1	0.07	13	0.08	8	107	0.34	110	70
162	12250	5	0.2	3.29	3	97	0.4	2	1.25	0.2	39	7	23	34	2.89	0.28	14	13	0.60	450	1	0.07	12	0.06	5	104	0.29	99	71
163	12300	5	0.2	3.48	2	71	0.5	2	1.28	0.2	37	7	18	38	3.33	0.23	13	15	0.62	356	1	0.05	11	0.16	6	112	0.28	98	59
164	12350	5	0.2	2.98	2	72	0.4	2	1.44	0.2	42	5	17	18	2.28	0.23	14	10	0.38	312	2	0.07	7	0.03	6	139	0.31	91	37
165	11100N–12400E	5	0.2	3.25	8	82	0.4	2	1.38	0.2	42	8	18	22	2.64	0.21	14	15	0.61	358	4	0.05	10	0.03	7	135	0.30	92	44
166	11100N–12450E	5	0.2	3.88	2	87	0.5	2	1.24	0.2	39	6	14	18	3.13	0.24	13	14	0.51	292	1	0.05	8	0.10	8	134	0.34	97	50
167	12500	5	0.2	3.49	2	91	0.4	3	1.55	0.2	47	9	17	23	2.57	0.26	15	12	0.72	421	1	0.05	11	0.04	10	136	0.30	85	46
168	12550	5	0.2	4.27	5	114	0.6	3	1.08	0.2	46	11	22	28	3.47	0.25	16	15	0.64	322	1	0.05	14	0.05	12	110	0.31	92	52
169	12600	5	0.2	3.87	3	103	0.5	2	1.07	0.2	45	11	26	35	3.20	0.29	15	14	0.68	369	1	0.05	16	0.09	11	96	0.25	86	79
170	11100N–12650E	5	0.2	3.82	5	115	0.5	2	1.21	0.2	45	10	22	89	2.98	0.27	14	14	0.73	368	1	0.05	12	0.06	12	127	0.31	90	51
171	11100N–12700E	5	0.2	5.57	19	133	0.6	2	0.96	0.2	34	9	18	87	3.66	0.22	13	21	0.62	304	2	0.05	14	0.05	5	100	0.34	123	73

T.T. No.	SAMPLE	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
172	11100N-127[illegible]	5	0.4	7.82	7	307	1.0	2	0.60	0.2	35	14	18	119	[illegible]5	0.27	19	26	0.91	425	1	0.06	22	0.10	13	66	0.32	123	98
173	12800 *	5	0.4	0.83	2	200	0.2	2	0.71	0.2	17	2	12	17	0.68	0.13	5	3	0.07	86	1	0.03	3	0.11	2	45	0.08	21	79
174	12850 *	5	0.2	2.06	2	76	0.2	2	0.74	0.2	20	3	12	23	1.71	0.15	7	4	0.19	205	1	0.03	4	0.13	2	53	0.14	43	47
175	11100N-12900E *	5	0.2	0.35	2	81	0.2	2	1.49	0.2	18	3	9	10	0.35	0.08	3	2	0.08	180	1	0.01	2	0.07	2	62	0.03	11	129
176	11100N-12950E *	5	0.8	4.19	2	174	0.9	2	1.46	0.2	40	11	22	80	2.86	0.24	23	14	0.56	563	1	0.05	13	0.21	14	78	0.18	92	71
177	11100N-13000E	5	0.2	3.63	7	120	0.5	3	1.08	0.2	43	9	26	37	4.19	0.29	16	17	0.66	423	1	0.06	12	0.14	10	90	0.31	129	98
178	11300N-10800E	5	0.2	3.59	5	83	0.4	2	1.30	0.2	41	11	25	30	3.35	0.23	14	22	0.90	417	1	0.06	14	0.06	12	94	0.28	123	69
179	10850	5	0.6	3.62	10	114	0.5	4	1.47	0.7	43	16	27	47	3.83	0.28	14	18	0.73	1827	1	0.07	15	0.11	36	108	0.27	130	128
180	11300N-10900E	5	0.2	3.96	11	116	0.6	4	1.41	0.2	45	14	38	46	3.53	0.30	15	19	0.93	632	1	0.07	23	0.13	10	93	0.30	106	105
181	11300N-10950E	5	0.2	3.50	3	100	0.6	2	1.36	0.2	48	12	38	43	3.53	0.24	19	17	0.74	574	1	0.07	22	0.15	4	97	0.37	108	95
182	11000 *	5	0.2	4.89	3	92	0.9	6	3.46	0.2	35	24	41	80	4.56	0.20	11	15	1.51	1305	1	0.11	49	0.12	3	184	0.41	151	88
183	11050	5	0.2	4.71	52	103	1.0	5	2.06	0.2	40	28	65	63	4.47	0.24	12	25	1.35	1594	1	0.08	65	0.14	5	99	0.48	164	90
184	11100	90	0.2	4.91	17	94	0.8	3	1.74	0.2	36	18	36	94	4.37	0.34	12	20	1.06	746	1	0.07	24	0.14	5	123	0.28	157	76
185	11300N-11150E	5	0.2	4.12	2	150	0.8	2	1.69	0.2	44	22	77	59	3.73	0.29	15	21	1.25	1076	1	0.11	56	0.22	5	89	0.35	110	113
186	11300N-11200E *	5	0.2	1.02	5	215	0.3	2	3.24	2.9	23	10	30	41	1.09	0.18	4	6	0.54	1303	1	0.04	16	0.16	4	122	0.12	39	175
187	11250	5	0.2	3.34	9	124	0.7	5	1.89	0.2	54	20	47	54	3.54	0.27	18	14	0.97	1002	1	0.07	31	0.22	8	103	0.35	111	77
188	11300 *	5	0.2	3.94	6	83	0.6	7	3.38	0.3	35	24	63	53	3.87	0.16	10	16	1.83	990	1	0.08	66	0.12	13	145	0.40	125	98
189	11350	5	0.4	2.50	9	155	0.5	2	1.68	0.2	34	17	54	50	2.64	0.24	9	12	0.74	1315	1	0.06	24	0.19	7	80	0.21	76	59
190	11300N-11400E	5	0.2	3.33	12	160	0.7	3	1.14	0.2	34	18	53	45	3.17	0.29	11	16	0.78	2429	1	0.07	27	0.33	11	68	0.28	99	76
191	11300N-11450E	5	0.2	3.86	5	301	0.6	2	1.49	0.2	36	20	45	39	3.96	0.31	12	18	1.13	2466	1	0.10	33	0.20	9	93	0.35	121	144
192	11500N-8800E	5	0.4	4.75	2	78	0.5	3	1.01	0.2	30	35	283	85	5.06	0.14	10	10	4.58	678	1	0.05	215	0.06	2	39	0.23	124	78
193	8850	5	0.2	5.07	2	76	0.5	2	0.63	0.2	31	35	239	98	5.13	0.16	12	11	4.06	646	1	0.06	201	0.06	2	35	0.19	139	74
194	8900	5	0.2	4.62	2	82	0.5	3	0.72	0.2	27	35	252	72	4.70	0.17	11	11	3.30	512	1	0.06	175	0.10	2	39	0.28	121	83
195	11500N-8950E	5	0.2	4.72	2	87	0.5	3	0.67	0.2	27	32	257	97	4.77	0.20	11	12	3.21	484	1	0.07	155	0.10	3	40	0.24	132	76
196	11500N-9000E	5	0.2	3.35	8	79	0.4	2	0.93	0.2	35	16	152	37	3.49	0.17	13	14	1.31	337	1	0.07	56	0.04	4	58	0.25	114	57
197	9050	5	0.2	3.69	2	74	0.4	2	1.13	0.2	29	15	194	36	3.42	0.16	11	14	1.60	425	1	0.08	69	0.05	4	63	0.21	108	65
198	9100	5	0.2	5.74	4	170	0.7	2	1.10	0.2	34	23	165	77	4.62	0.32	13	16	2.13	1362	1	0.09	103	0.10	6	65	0.19	127	80
199	9150	5	0.8	3.79	2	77	0.6	4	2.40	0.2	34	19	372	194	3.70	0.16	15	10	1.78	516	1	0.06	102	0.15	5	76	0.17	127	55
201	11500N-9200E	5	0.2	5.00	2	66	0.7	7	1.76	0.2	40	35	282	88	4.83	0.11	13	14	3.10	516	1	0.05	185	0.06	6	60	0.25	154	75
202	11500N-9250E	5	0.2	3.86	2	96	0.6	3	1.09	0.2	38	22	199	46	3.91	0.21	15	17	1.61	631	1	0.08	84	0.09	7	56	0.29	123	78
203	9300	5	0.2	4.86	2	68	0.6	5	1.44	0.3	34	39	265	106	4.75	0.14	12	11	3.37	436	1	0.06	205	0.07	3	37	0.27	124	85
204	9350	5	0.2	3.83	12	97	0.6	3	0.69	0.2	37	12	86	57	3.93	0.29	14	19	1.00	391	1	0.07	38	0.09	6	48	0.25	107	92
205	9400	10	0.2	4.09	12	113	0.6	2	0.63	0.2	37	11	66	35	4.16	0.33	14	18	0.91	373	1	0.07	32	0.10	6	45	0.26	106	137
206	11500N-9450E	5	0.2	3.85	8	96	0.5	3	1.04	0.2	35	19	172	70	4.13	0.25	12	15	1.61	439	1	0.06	71	0.08	5	44	0.26	121	100
207	11500N-9500E	5	0.4	3.55	2	82	0.5	3	1.26	0.2	40	21	219	45	3.96	0.20	14	18	1.84	393	1	0.06	83	0.10	4	48	0.28	120	118
208	9550	5	0.4	3.43	4	110	0.5	2	0.74	0.2	39	9	65	26	3.11	0.30	14	18	0.64	521	1	0.08	19	0.08	5	60	0.25	100	95
209	9600	5	0.2	3.11	2	104	0.4	2	0.87	0.2	40	11	113	21	3.28	0.26	14	15	0.73	628	1	0.08	22	0.09	5	61	0.28	122	136
210	9650	5	0.4	4.05	2	104	0.5	2	0.61	0.2	38	11	38	25	3.22	0.30	15	18	0.62	380	1	0.07	13	0.14	9	54	0.25	95	294
211	11500N-9700E	5	0.2	4.02	2	96	0.4	2	0.67	0.2	33	8	86	20	3.51	0.28	13	19	0.65	308	1	0.07	19	0.10	3	59	0.28	110	104
212	11500N-10050E	5	1.0	5.87	24	167	1.2	2	1.17	0.2	43	15	50	565	4.05	0.30	23	23	1.05	630	3	0.09	55	0.07	6	65	0.23	104	120
213	10100	10	0.4	4.63	16	118	0.6	2	0.72	0.2	34	14	74	155	4.36	0.32	13	21	0.98	368	1	0.08	40	0.09	3	58	0.32	130	101
214	10150	70	0.2	4.45	21	133	0.6	2	0.98	0.2	38	15	62	155	4.10	0.34	14	20	0.88	577	1	0.08	35	0.11	5	65	0.28	116	122
215	10200	10	0.4	4.17	33	142	0.6	2	0.77	0.2	42	15	44	138	3.99	0.35	16	18	1.02	571	1	0.07	29	0.04	4	59	0.25	116	122
216	11500N-10250E	5	0.2	4.39	2	148	0.7	3	0.88	0.2	42	26	25	104	5.02	0.35	15	19	1.69	3224	1	0.07	23	0.13	6	64	0.29	173	111

T.T. No.	SAMPLE	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
217	11500N-10[illegible]	100	0.2	4.06	4	118	0.6	3	0.83	0.2	43	20	32	89	[illegible]7	0.33	16	19	1.41	1670	1	0.07	22	0.10	6	62	0.29	163	96
218	10350	5	0.2	4.90	2	112	0.8	6	0.65	0.2	49	32	24	108	5.79	0.34	17	22	2.48	2146	1	0.07	24	0.09	6	50	0.19	209	99
219	10400	5	0.2	3.88	2	152	0.6	2	0.62	0.2	45	10	25	26	2.93	0.53	17	15	0.76	489	1	0.06	13	0.07	7	51	0.21	75	82
220	10450	5	0.2	4.22	2	163	0.6	2	0.85	0.2	49	10	30	21	2.82	0.64	17	17	0.69	1266	1	0.07	13	0.07	10	71	0.24	76	111
221	11500N-10500E	5	0.2	3.79	2	141	0.6	2	1.03	0.2	52	10	37	23	2.95	0.39	21	16	0.67	597	1	0.09	17	0.09	3	86	0.33	81	92
222	11500N-10550E	5	0.2	4.03	2	163	0.6	2	0.65	0.2	35	12	24	21	3.58	0.33	14	19	0.43	1501	1	0.07	11	0.16	6	66	0.26	89	130
223	10600	5	0.2	3.88	2	158	0.6	2	0.87	0.2	51	10	30	23	2.97	0.40	21	16	0.58	604	1	0.07	17	0.11	5	75	0.29	78	111
224	10650	5	0.2	4.87	17	204	0.7	4	1.39	0.2	49	16	41	83	3.80	0.22	16	16	0.86	745	1	0.06	36	0.18	5	91	0.29	135	62
225	10700	5	0.2	3.85	2	113	0.6	3	0.97	0.2	43	11	28	44	3.22	0.32	16	15	0.76	422	1	0.06	18	0.11	4	74	0.27	95	66
226	11500N-10750E	5	0.2	4.17	3	99	0.5	2	1.02	0.2	38	9	23	28	3.08	0.32	13	18	0.76	405	1	0.06	13	0.08	7	89	0.26	93	87
227	11500N-10800E	5	0.2	3.77	4	93	0.5	5	1.12	0.2	38	12	27	52	3.68	0.26	15	19	0.88	526	1	0.06	22	0.08	12	99	0.26	109	91
228	10850	5	0.2	3.63	6	97	0.5	5	1.07	0.2	42	9	30	31	3.46	0.26	14	17	0.70	392	1	0.07	16	0.08	10	88	0.28	109	72
229	10900	5	0.2	4.27	7	109	0.6	5	1.09	0.2	42	14	35	53	3.86	0.30	15	19	0.90	667	1	0.07	20	0.12	12	82	0.30	128	93
230	10950	5	0.2	4.23	15	124	0.7	6	1.31	0.2	42	20	55	55	4.36	0.29	14	23	0.89	1102	1	0.10	30	0.16	12	80	0.31	135	117
231	11500N-11000E	5	0.2	4.17	8	139	0.8	2	1.38	0.2	54	22	42	102	3.85	0.25	20	17	0.90	735	1	0.08	34	0.07	7	89	0.35	128	75
232	11500N-11050E	30	0.2	3.24	7	113	0.5	2	1.33	0.2	43	14	37	68	3.59	0.20	16	15	0.79	651	1	0.08	22	0.10	4	89	0.32	115	68
233	11200	5	0.2	3.45	2	277	0.7	2	1.23	0.2	40	19	39	51	3.72	0.25	15	15	0.80	1699	1	0.07	24	0.30	4	84	0.32	116	74
234	11300	5	0.2	3.32	3	101	0.7	2	0.84	0.2	36	16	38	70	3.56	0.23	13	13	0.82	672	1	0.06	27	0.25	5	62	0.35	112	64
235	11350	5	0.2	4.17	2	65	0.7	5	2.20	0.2	38	27	31	82	4.85	0.19	11	14	1.69	1084	1	0.07	45	0.15	6	101	0.46	158	82
236	11500N-11400E	5	0.2	3.79	2	86	0.7	3	1.21	0.2	58	16	39	62	4.16	0.21	24	14	0.89	567	1	0.06	21	0.15	5	86	0.42	141	67
237	11500N-11450E	5	0.2	1.87	4	131	0.3	2	1.02	0.2	24	14	20	57	2.58	0.17	7	8	0.65	2209	1	0.04	13	0.16	7	54	0.23	85	100
238	11500N-11500E	5	0.2	3.18	6	183	0.5	2	1.37	0.2	36	15	23	58	4.44	0.22	12	15	0.86	817	1	0.07	14	0.17	5	92	0.45	169	63
239	11700N-8800E	5	0.2	3.89	2	87	0.5	3	0.61	0.2	30	27	232	48	4.07	0.18	12	15	2.22	467	1	0.06	109	0.08	5	48	0.20	129	76
240	8850	5	0.2	3.76	2	97	0.5	5	0.63	0.2	31	32	240	33	3.95	0.21	12	16	1.64	1451	1	0.07	86	0.14	6	51	0.23	118	88
241	11700N-8900E	5	0.2	4.27	2	68	0.4	4	0.70	0.2	24	27	250	50	4.39	0.12	10	14	2.94	371	1	0.06	141	0.04	2	39	0.23	134	62
242	11700N-8950E	5	0.2	4.60	3	76	0.5	2	1.27	0.2	29	31	252	79	5.08	0.17	10	10	4.00	765	1	0.06	184	0.10	2	45	0.18	140	76
243	9000	5	0.2	4.49	2	88	0.5	3	0.65	0.2	29	29	195	63	4.39	0.18	11	14	2.98	732	1	0.06	142	0.06	2	44	0.25	122	77
244	9050	5	0.2	4.20	2	100	0.5	2	0.69	0.2	34	21	147	31	4.02	0.21	14	16	1.31	688	1	0.08	63	0.15	6	55	0.29	116	101
245	9100	5	0.2	4.61	2	104	0.5	4	1.08	0.2	33	31	222	64	4.27	0.17	12	13	2.51	703	1	0.06	141	0.11	5	47	0.28	113	91
246	11700N-9150E	5	0.2	4.75	2	76	0.5	5	1.53	0.2	33	37	243	72	4.73	0.13	11	12	3.38	488	1	0.06	187	0.07	3	41	0.29	116	79
247	11700N-9200E	5	0.2	4.19	4	131	0.5	4	1.26	0.2	38	31	287	66	4.47	0.37	13	14	2.44	1074	1	0.06	110	0.08	5	45	0.18	124	78
248	9250	5	0.2	4.96	3	131	0.8	4	1.72	0.2	44	19	310	75	3.91	0.18	18	17	1.30	1596	1	0.07	64	0.12	9	95	0.18	136	71
249	9300	5	0.2	3.89	2	82	0.5	4	0.92	0.2	34	20	161	43	3.83	0.17	13	14	1.33	334	1	0.06	71	0.05	6	55	0.28	124	92
251	9350	5	0.2	4.38	2	101	0.6	5	1.31	0.2	38	19	93	54	3.60	0.28	12	14	1.48	585	1	0.06	51	0.06	12	60	0.24	116	79
252	11700N-9400E	5	0.2	4.00	2	90	0.5	4	1.16	0.2	37	15	88	45	3.22	0.20	12	14	1.23	534	1	0.07	37	0.04	8	65	0.25	105	68
253	11700N-9450E	5	0.2	4.41	12	96	0.6	5	0.91	0.2	35	22	140	105	4.44	0.23	13	17	1.73	400	1	0.06	88	0.10	10	43	0.26	122	94
254	9500	5	0.2	4.21	4	118	0.6	4	0.79	0.2	36	17	120	50	3.79	0.31	14	16	1.29	582	1	0.06	56	0.10	11	48	0.24	108	86
255	9550	5	0.6	6.87	6	148	0.8	5	1.16	0.2	40	24	70	263	4.34	0.45	18	22	1.56	848	1	0.09	64	0.07	15	55	0.18	122	85
256	9600	5	0.2	4.72	2	111	0.6	3	0.78	0.2	34	16	92	54	3.62	0.27	13	16	1.12	433	1	0.07	44	0.09	12	54	0.26	102	105
257	11700N-9650E	5	0.2	4.18	10	100	0.6	4	0.78	0.2	37	15	106	63	3.66	0.31	14	16	1.10	404	1	0.06	43	0.10	11	51	0.27	105	105
258	11700N-9700E	5	0.2	4.49	11	100	0.6	4	0.73	0.2	34	15	76	69	4.17	0.29	13	17	1.08	385	1	0.06	42	0.09	9	47	0.26	115	85
259	9750	5	0.2	4.53	24	107	0.5	3	0.70	0.2	32	16	89	109	3.91	0.31	12	18	1.14	388	1	0.08	47	0.08	11	47	0.24	111	84
260	9800	5	0.4	5.34	39	143	0.6	4	0.56	0.2	35	16	72	346	4.65	0.39	14	19	1.16	407	1	0.10	48	0.08	11	48	0.24	110	89
261	11700N-9850E	5	0.2	3.92	7	96	0.5	2	0.64	0.2	31	8	59	84	3.89	0.29	13	18	0.69	335	1	0.07	21	0.11	3	53	0.26	111	80

T.T. No.	SAMPLE	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
262	11700N-99[illegible]	40	0.6	5.12	34	120	0.6	3	0.70	0.2	33	19	65	699	[illegible]76	0.35	13	18	1.28	446	5	0.06	59	0.08	4	47	0.25	117	83
263	11700N-9950E	25	0.6	4.42	8	98	0.6	2	0.71	0.2	35	13	57	247	4.02	0.27	13	18	0.70	372	1	0.07	28	0.08	6	56	0.29	112	108
264	10000	230	0.4	4.01	43	118	0.5	3	1.08	0.2	36	23	38	320	4.45	0.50	12	14	1.07	900	2	0.06	29	0.11	6	56	0.21	116	92
265	10050	5	0.2	4.07	15	127	0.6	2	0.79	0.2	40	14	63	113	3.91	0.32	14	17	0.80	536	1	0.07	31	0.07	5	59	0.25	109	94
266	10100	260	0.2	4.14	11	145	0.5	2	0.80	0.2	36	15	51	108	3.54	0.44	12	19	0.94	638	1	0.07	30	0.06	7	56	0.22	104	102
267	11700N-10150E	5	0.2	3.70	2	118	0.5	2	0.85	0.2	42	12	55	26	3.04	0.43	16	18	0.87	415	1	0.06	21	0.04	9	66	0.20	92	58
268	11700N-10200E	10	0.2	4.08	5	151	0.6	2	0.84	0.2	39	15	47	109	3.43	0.50	13	19	0.85	1156	1	0.07	29	0.07	9	59	0.24	98	93
269	10300	5	0.2	4.84	2	164	0.9	4	0.81	0.2	50	9	27	28	3.43	0.82	18	20	0.75	467	1	0.06	15	0.12	13	96	0.25	80	73
270	10350	5	0.2	4.69	2	199	0.8	5	0.93	0.2	51	12	27	45	3.78	0.56	18	19	0.78	646	1	0.06	16	0.10	13	95	0.27	84	84
271	10400	5	0.2	4.15	2	87	0.7	2	0.25	0.2	27	5	4	13	2.13	1.39	12	6	0.78	915	1	0.02	3	0.05	7	10	0.11	32	63
272	11700N-10450E	35	0.2	4.26	2	154	0.8	2	0.63	0.2	53	10	19	32	3.08	0.71	21	15	0.91	919	1	0.05	14	0.06	32	51	0.22	68	65
273	11700N-10500E	5	0.2	4.78	2	149	0.6	2	0.69	0.2	35	9	19	30	2.89	0.55	13	17	0.67	456	1	0.07	15	0.10	8	64	0.23	68	104
274	10550	5	0.2	3.24	2	110	0.6	2	0.81	0.2	55	9	40	28	3.16	0.32	22	13	0.66	380	1	0.07	18	0.09	7	67	0.28	84	68
275	10600	5	0.2	3.62	2	132	0.5	2	0.64	0.2	40	8	26	18	2.54	0.34	16	17	0.51	399	1	0.06	12	0.09	7	63	0.24	67	93
276	10650	5	0.2	3.15	2	108	0.4	2	0.69	0.2	47	5	35	16	2.86	0.36	20	15	0.42	355	1	0.06	11	0.15	8	62	0.25	76	79
277	11700N-10700E	5	0.2	4.00	2	163	0.6	2	0.81	0.2	41	14	25	22	2.98	0.40	16	22	0.53	720	1	0.07	12	0.07	11	74	0.24	82	95
278	11700N-10750E	5	0.2	3.38	2	146	0.6	2	0.92	0.2	56	9	32	30	3.03	0.43	21	13	0.65	413	1	0.06	16	0.07	11	70	0.26	80	69
279	10800	20	0.2	3.57	2	91	0.5	2	1.22	0.2	45	10	32	58	4.13	0.26	15	14	0.60	376	1	0.05	12	0.07	8	101	0.26	132	50
280	10850	5	0.4	4.36	2	138	0.6	3	0.90	0.2	40	11	31	74	4.01	0.38	14	19	0.99	481	1	0.05	18	0.09	11	81	0.28	131	75
281	10900	5	0.2	3.07	2	136	0.6	2	1.13	0.2	50	12	36	50	3.44	0.27	20	13	0.75	526	1	0.06	21	0.07	3	86	0.25	109	58
282	11700N-10950E	5	0.4	3.68	2	86	0.5	2	0.81	0.2	34	10	26	66	3.64	0.25	13	16	0.72	400	1	0.06	13	0.10	4	68	0.26	121	70
283	11700N-11000E	5	0.2	3.39	2	93	0.6	2	1.15	0.2	46	9	39	33	3.21	0.21	18	15	0.73	370	1	0.06	23	0.08	5	88	0.32	100	70
284	11050	5	0.2	3.28	2	98	0.6	2	1.04	0.2	51	11	43	36	3.42	0.20	20	14	0.75	378	1	0.06	24	0.08	5	81	0.31	105	61
285	11100	5	0.2	3.20	2	103	0.7	2	1.21	0.2	50	15	35	45	3.69	0.19	20	15	0.80	861	1	0.06	23	0.12	6	84	0.37	123	73
286	11150	5	0.2	4.24	2	74	0.7	5	1.71	0.2	40	21	33	70	4.17	0.19	13	15	1.13	783	1	0.06	31	0.21	7	92	0.39	137	73
287	11700N-11200E	5	0.2	4.33	4	137	0.8	2	1.04	0.2	40	23	23	70	3.92	0.32	14	18	0.90	1824	1	0.08	20	0.17	9	75	0.38	133	87
288	11700N-11250E	5	0.2	3.76	2	100	0.7	2	0.94	0.2	39	15	32	51	3.71	0.27	14	16	0.77	820	1	0.06	17	0.19	5	64	0.36	120	75
289	11300	5	0.2	3.16	5	137	0.6	2	1.21	0.2	35	19	39	47	3.56	0.26	11	14	0.71	2238	1	0.06	16	0.26	7	76	0.37	131	75
290	11350	40	0.2	3.51	2	95	0.7	3	1.34	0.2	50	14	49	58	3.86	0.23	18	16	0.83	725	1	0.06	21	0.12	8	85	0.35	129	80
291	11400	10	0.2	3.54	2	134	0.7	2	1.78	0.2	111	21	58	92	4.51	0.22	46	14	1.08	826	1	0.06	26	0.12	2	109	0.45	157	71
292	11700N-11450E	5	0.2	3.60	2	132	0.7	2	1.31	0.2	36	23	38	80	3.78	0.25	12	16	0.89	1352	1	0.07	20	0.25	3	87	0.33	126	77
293	11700N-11500E	5	0.4	4.53	3	191	0.9	2	1.13	0.2	50	30	50	85	4.21	0.27	17	18	1.14	1231	1	0.06	48	0.18	6	77	0.34	131	71
294	11900N-8800E	5	0.2	3.92	2	78	0.5	2	0.50	0.2	23	30	276	46	4.71	0.16	10	17	2.54	1334	1	0.05	120	0.14	3	40	0.19	152	87
295	8850	5	0.2	3.59	2	79	0.4	2	0.59	0.2	29	21	240	32	3.60	0.17	11	15	1.82	564	1	0.07	82	0.10	4	50	0.23	111	73
296	8900	5	0.2	3.64	2	80	0.5	2	0.71	0.2	32	17	194	26	3.95	0.19	12	17	1.32	378	1	0.07	62	0.06	5	57	0.26	130	65
297	11900N-8950E	5	0.2	4.36	2	84	0.5	2	0.65	0.2	26	30	254	71	4.71	0.17	10	11	2.90	557	1	0.06	143	0.07	4	40	0.21	136	75
298	11900N-9000E	5	0.2	4.03	2	106	0.6	4	2.07	0.2	35	23	185	69	3.82	0.21	12	12	2.11	1908	1	0.07	102	0.09	5	75	0.14	112	65
299	9050	5	0.2	3.94	2	73	0.4	2	1.41	0.2	35	9	25	33	2.70	0.16	10	8	0.81	374	1	0.05	12	0.05	8	75	0.23	86	47
2	9100	5	0.2	3.21	2	76	0.5	2	1.73	0.2	31	9	23	38	2.31	0.22	10	6	0.79	464	1	0.05	14	0.06	4	74	0.20	78	48
3	9150	5	0.2	4.16	5	42	0.5	2	1.50	1.0	33	79	117	187	6.03	0.10	10	8	3.74	1063	1	0.04	187	0.07	4	34	0.20	134	111
4	11900N-9300E	5	0.4	4.50	2	43	0.5	2	1.60	0.3	29	45	251	84	4.53	0.08	8	7	4.20	603	1	0.04	250	0.05	5	28	0.23	112	81
5	11900N-9350E	5	0.2	3.68	2	66	0.4	2	1.15	0.2	31	27	149	46	3.71	0.15	10	12	2.02	369	1	0.05	118	0.03	5	42	0.24	109	62
6	11900N-9400E	10	0.4	4.10	2	85	0.5	2	1.15	0.2	29	31	149	73	4.01	0.17	10	11	2.51	435	1	0.05	133	0.06	4	36	0.26	107	88

T.T. No.	SAMPLE	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
7	11900N-9[illegible]	5	0.2	3.97	2	116	0.5	2	1.13	0.2	32	25	152	56	[illegible]6	0.20	11	15	1.65	693	1	0.06	95	0.12	4	47	0.26	101	104
8	9600	5	0.4	3.68	6	87	0.4	2	0.97	0.2	29	23	178	47	3.83	0.21	9	15	1.59	572	1	0.05	86	0.07	4	36	0.23	122	80
9	11900N-9650E	5	0.6	3.66	2	85	0.4	2	0.80	0.2	30	18	125	35	3.71	0.21	10	17	1.08	446	1	0.06	56	0.04	6	41	0.22	124	67
10	11900N-9700E	5	0.4	3.65	13	82	0.5	2	1.07	0.2	32	24	171	59	3.83	0.19	10	13	1.87	337	1	0.05	98	0.05	6	36	0.22	118	69
11	9750	5	0.6	4.03	7	85	0.5	2	0.81	0.2	26	18	137	71	3.79	0.22	10	16	1.29	307	1	0.06	64	0.07	3	41	0.26	121	76
12	9800	5	1.0	3.23	2	76	0.4	2	0.70	0.2	26	16	90	39	3.11	0.22	9	14	0.95	389	1	0.05	42	0.05	4	44	0.22	98	81
13	9850	10	0.4	4.56	7	109	0.6	2	0.83	0.2	28	19	69	182	3.95	0.34	10	13	1.55	487	1	0.05	62	0.08	3	43	0.22	110	73
14	11900N-9900E	25	0.2	3.97	12	98	0.5	2	0.64	0.2	31	11	46	121	3.85	0.30	12	17	0.87	405	1	0.07	31	0.09	7	51	0.25	107	80
15	11900N-9950E	15	0.4	4.57	20	108	0.6	2	0.95	0.2	30	19	54	219	4.04	0.42	10	13	1.28	504	1	0.05	46	0.08	4	54	0.20	108	77
16	10000	10	0.6	4.15	16	117	0.6	2	0.74	0.2	37	15	52	186	3.89	0.37	14	16	1.13	435	1	0.06	41	0.08	7	58	0.24	107	76
17	10050	5	0.2	4.30	2	177	0.6	2	1.06	0.2	36	20	47	67	4.09	0.49	12	24	1.46	2218	1	0.07	39	0.11	5	79	0.26	126	91
18	10100	5	0.2	4.04	2	139	0.5	2	0.99	0.2	35	19	64	59	4.16	0.34	12	21	1.32	1682	1	0.06	38	0.07	4	77	0.26	139	87
19	11900N-10150E	5	0.4	4.26	2	123	0.6	2	0.90	0.2	37	16	69	61	3.74	0.42	13	21	1.16	722	1	0.06	45	0.07	5	76	0.25	111	79
20	11900N-10200E	5	0.2	3.98	2	141	0.6	2	0.90	0.2	37	12	39	46	3.39	0.44	14	19	0.89	709	1	0.06	22	0.10	7	74	0.22	92	91
21	10250	5	0.2	3.93	2	183	0.7	2	1.01	0.2	40	13	37	35	3.32	0.49	15	19	0.79	1547	1	0.06	22	0.11	5	83	0.23	89	97
22	10300	5	0.2	3.65	4	153	0.6	2	0.93	0.2	38	12	35	30	3.22	0.38	14	18	0.68	1659	1	0.06	20	0.12	6	80	0.25	88	99
23	10350	5	0.2	4.17	2	152	0.6	2	0.86	0.2	36	12	24	30	3.13	0.49	14	18	0.72	617	1	0.06	19	0.08	8	75	0.25	84	110
24	11900N-10400E	5	0.4	3.46	2	88	0.4	2	0.70	0.2	34	5	28	15	2.38	0.31	13	14	0.44	255	1	0.05	10	0.06	3	63	0.23	65	60
25	11900N-10450E	5	0.4	3.43	2	112	0.5	2	0.87	0.2	39	8	28	22	2.71	0.45	15	11	0.63	481	1	0.05	15	0.05	6	70	0.27	77	60
26	10500	5	0.2	3.37	2	100	0.5	2	0.79	0.2	42	8	34	25	3.33	0.31	17	19	0.62	410	1	0.08	15	0.10	7	70	0.29	92	82
27	10550	5	0.4	3.92	2	109	0.5	2	0.68	0.2	38	6	27	19	2.98	0.45	15	16	0.49	406	1	0.07	10	0.07	10	68	0.27	82	72
28	10600	5	0.2	3.55	2	107	0.4	2	0.94	0.2	37	9	37	37	3.29	0.47	13	15	0.72	374	1	0.06	16	0.05	10	73	0.26	97	68
29	11900N-10700E	5	0.4	5.49	2	97	0.4	2	2.59	0.2	29	9	8	101	3.07	0.36	7	9	0.57	302	10	0.03	6	0.08	9	135	0.10	66	32
30	11900N-10750E	5	0.4	3.25	6	104	0.4	2	0.87	0.2	32	7	26	69	3.28	0.30	11	9	0.44	278	7	0.06	9	0.13	9	74	0.23	124	50
31	10800	5	0.2	4.10	3	113	0.6	2	1.39	0.2	40	17	38	44	3.44	0.20	16	23	0.91	1197	1	0.07	26	0.05	3	95	0.27	129	77
32	10850	5	0.2	4.06	3	110	0.6	2	1.23	0.2	46	16	55	60	3.83	0.26	18	17	1.05	529	1	0.07	36	0.07	5	87	0.35	128	75
33	10900	5	0.2	3.46	2	88	0.5	2	1.43	0.2	37	15	45	41	3.68	0.23	14	20	1.09	500	1	0.08	33	0.05	6	91	0.34	130	72
34	11900N-10950E	5	0.2	3.01	3	60	0.4	2	1.56	0.2	36	17	74	22	2.99	0.14	14	15	1.75	543	1	0.10	72	0.03	5	83	0.30	102	55
35	11900N-11000E	5	0.4	3.54	2	100	0.5	2	1.03	0.2	33	11	34	34	3.68	0.26	13	21	0.84	554	1	0.07	19	0.15	4	71	0.33	124	81
36	11050	5	0.2	3.51	2	83	0.5	2	1.53	0.2	45	14	35	32	3.39	0.17	17	17	1.00	589	1	0.07	20	0.05	2	102	0.38	127	63
37	11100	5	0.2	3.60	2	99	0.5	2	1.43	0.2	39	12	37	27	3.45	0.26	14	20	0.89	539	1	0.08	21	0.05	5	91	0.38	131	60
38	11150	5	0.2	3.41	2	99	0.5	2	1.03	0.2	37	12	30	33	3.81	0.28	14	19	0.74	606	1	0.08	14	0.11	4	75	0.36	132	77
39	11900N-11200E	5	0.2	3.38	4	87	0.5	2	1.24	0.2	37	12	37	31	4.06	0.23	13	17	0.75	487	1	0.07	17	0.09	5	83	0.45	153	65
40	11900N-11250E	5	0.2	3.66	2	73	0.6	2	1.41	0.2	38	18	35	65	3.64	0.18	13	12	1.03	480	1	0.05	26	0.12	3	77	0.35	125	56
41	11300	10	0.2	4.02	3	118	0.6	2	0.89	0.2	35	15	35	56	3.62	0.25	14	15	0.76	1152	1	0.06	17	0.16	5	65	0.30	120	79
42	11350	5	0.2	3.30	10	143	0.6	2	1.00	0.2	31	17	30	52	3.62	0.28	12	17	0.68	1165	1	0.06	16	0.19	7	78	0.27	115	85
43	11400	5	0.2	3.16	8	103	0.6	2	1.08	0.2	52	15	36	50	3.42	0.20	19	13	0.70	922	1	0.05	17	0.14	7	75	0.31	108	63
44	11900N-11450E	5	0.4	3.26	5	153	0.7	2	1.45	0.2	46	20	34	72	3.43	0.25	16	12	0.74	1355	1	0.05	16	0.27	6	94	0.28	111	65
45	11900N-11500E	5	0.2	3.16	5	111	0.5	2	1.16	0.2	39	15	32	47	3.23	0.21	15	14	0.70	1259	1	0.06	16	0.13	8	84	0.30	106	79
46	11550	5	0.4	2.90	9	104	0.6	2	1.22	0.2	46	16	39	71	3.14	0.21	17	12	0.69	1026	1	0.05	17	0.18	7	76	0.26	101	69
47	11600	5	0.2	3.25	10	61	0.6	2	1.36	0.2	38	22	32	143	3.33	0.20	12	11	0.86	487	1	0.05	22	0.10	7	79	0.28	124	51
48	11650	5	0.2	3.23	10	136	0.6	2	1.33	0.2	41	23	35	110	3.50	0.23	14	14	0.79	1758	1	0.05	18	0.18	9	74	0.28	125	59
49	11900N-11700E	5	0.2	3.31	12	114	0.6	2	1.54	0.2	62	17	47	74	3.89	0.24	23	13	0.95	784	1	0.06	23	0.10	7	95	0.34	132	63
51	11900N-11750E	5	0.2	3.72	12	102	0.9	3	1.47	0.2	36	22	51	114	3.97	0.22	12	14	1.03	1375	1	0.05	24	0.18	7	75	0.33	160	81

T.T. No.	SAMPLE		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
52	11900N-11800E		5	0.2	3.26	7	73	0.7	2	1.21	0.2	47	15	51	80	[illegible]	0.18	19	14	0.83	440	1	0.05	28	0.10	7	76	0.32	122	64
53	11850		5	0.2	3.11	6	87	0.7	2	1.15	0.2	42	12	38	65	3.50	0.19	16	14	0.77	514	1	0.05	20	0.11	9	77	0.34	128	70
54	11900		5	0.2	3.25	6	64	0.7	2	1.33	0.2	41	13	44	67	3.58	0.18	15	14	0.78	465	1	0.05	18	0.14	6	81	0.34	126	70
55	11900N-11950E		5	0.4	3.42	4	83	0.6	2	1.27	0.2	41	12	44	53	3.72	0.21	16	16	0.80	583	1	0.06	19	0.09	9	86	0.35	129	79
56	11900N-12000E		5	0.2	3.22	8	81	0.5	2	1.41	0.2	36	11	40	37	3.79	0.23	12	17	0.78	534	1	0.06	16	0.13	12	93	0.35	133	88
301	10700N-11550E	Talus/Rx	5	0.2	4.17	2	22	0.7	8	3.37	0.2	34	35	126	47	4.60	0.11	10	11	4.27	810	1	0.16	201	0.08	2	102	0.38	123	76
302	10700N-11700E	Talus/Rx	5	0.2	4.12	2	21	0.8	9	4.65	0.2	30	24	59	46	4.76	0.14	9	11	2.18	780	1	0.21	64	0.08	2	127	0.49	173	51
303	11500N-11100E	Talus/Rx	5	0.2	4.49	3	23	0.7	9	4.54	0.2	30	27	42	63	5.10	0.12	9	14	2.26	865	1	0.16	68	0.08	3	153	0.52	170	92

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Newmac (JR)

Noranda Exploration Co. Ltd. PROJECT 8-87 File # 90-4337 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
NL CHECK	20	48	56	166	1.0	30	24	581	2.79	94	6	ND	4	137	2.7	2	6	41	1.15	.057	17	149	.51	141	.16	41	1.85	.13	.54	1
13500N-8800E	1	37	16	545	.4	23	18	1150	3.94	222	5	ND	1	62	4.3	2	4	75	1.07	.037	9	33	.80	134	.21	43	4.61	.09	.36	1
13500N-8850E	3	61	22	917	.2	13	15	758	4.12	409	5	ND	1	57	5.3	2	6	66	.90	.030	6	21	.80	145	.19	49	4.91	.10	.41	1
13500N-8900E	1	19	11	397	.3	19	16	765	3.77	102	5	ND	1	68	3.2	2	10	74	.94	.024	7	34	.74	155	.18	42	4.98	.10	.42	1
13500N-8950E	1	54	7	127	.1	38	17	545	3.97	122	5	ND	1	80	2.0	2	3	79	1.04	.042	8	59	.99	107	.22	38	4.63	.11	.33	1
13500N-9000E	2	112	20	156	.3	62	24	439	5.05	138	5	ND	1	66	1.3	2	13	99	.92	.043	9	91	1.19	88	.25	30	4.76	.09	.25	1
13500N-9050E	2	200	19	80	.3	79	29	392	5.28	261	6	ND	1	52	1.2	2	2	83	.89	.056	8	86	1.54	149	.23	39	6.15	.11	.36	1
13500N-9100E	2	39	6	53	.3	13	10	280	3.70	90	5	ND	1	73	.9	2	3	84	.71	.043	6	22	.44	86	.21	51	4.51	.17	.30	1
13500N-9150E	1	37	9	65	.1	17	9	285	3.63	59	5	ND	1	66	.8	2	4	81	.83	.044	7	49	.61	89	.24	28	3.92	.09	.26	1
13500N-9200E	1	82	7	94	.3	26	17	413	3.74	55	5	ND	1	58	1.6	2	9	81	.99	.036	11	58	.93	97	.26	39	4.28	.09	.26	1
13500N-9250E	2	172	20	87	.1	49	16	450	4.90	99	5	ND	1	56	1.0	2	17	92	.85	.079	6	80	1.32	121	.23	37	5.33	.10	.35	1
13500N-9300E	1	25	5	99	.2	16	9	303	3.42	41	5	ND	1	63	.3	4	5	84	.89	.035	10	60	.60	82	.26	33	3.67	.08	.22	1
13500N-9350E	1	41	2	96	.4	25	12	317	3.93	54	5	ND	1	66	.8	4	2	90	.93	.046	9	65	.77	94	.26	32	4.31	.08	.24	1
13500N-9400E	1	27	3	106	.1	23	10	332	3.61	32	5	ND	1	67	1.1	4	8	89	.91	.040	10	53	.75	88	.29	27	3.94	.09	.23	1
13500N-9450E	1	71	2	95	.1	34	16	388	3.90	81	6	ND	1	65	.8	2	2	83	1.03	.036	11	53	.87	96	.23	41	4.60	.09	.26	1
13500N-9500E	1	79	13	87	.1	32	14	671	3.73	41	5	ND	1	69	.6	3	3	81	1.32	.075	11	74	1.12	130	.23	31	3.77	.09	.41	1
13500N-9550E	2	194	11	72	.1	42	30	969	4.58	34	5	ND	1	73	1.0	2	2	98	1.28	.033	11	51	1.35	148	.23	34	5.29	.10	.51	1
13500N-9600E	1	93	9	106	.1	26	25	1053	4.83	31	5	ND	1	63	.6	4	5	105	.98	.022	7	36	1.71	211	.18	60	6.71	.10	.72	1
13500N-9650E	3	65	28	58	.2	8	14	371	4.68	17	5	ND	1	91	.6	2	8	84	.70	.017	9	13	.54	137	.13	71	6.02	.28	.55	1
13500N-9700E	1	20	17	68	.1	11	10	354	3.25	15	5	ND	1	74	1.1	2	5	76	.94	.018	8	18	.59	146	.16	59	5.19	.16	.54	1
13500N-9750E	2	57	8	45	.1	6	10	367	3.62	12	5	ND	1	60	.8	2	6	53	.59	.022	10	14	.70	177	.12	59	5.27	.19	.65	1
13500N-9800E	1	10	10	87	.1	9	11	711	2.69	5	5	ND	1	79	.8	2	9	61	1.11	.050	9	27	.61	159	.21	34	3.78	.08	.40	1
13500N-9850E	1	17	2	103	.1	13	12	480	2.87	10	5	ND	1	81	.9	2	7	66	1.18	.048	10	25	.73	162	.21	32	4.12	.09	.40	1
13500N-9900E	1	16	7	78	.1	6	11	446	3.19	6	5	ND	1	67	.4	2	2	73	.98	.036	8	27	.68	143	.15	40	4.05	.10	.47	1
13500N-9950E	1	23	3	57	.1	10	9	327	3.43	16	5	ND	1	66	.2	2	8	77	.76	.025	9	26	.69	104	.16	35	4.09	.11	.44	1
13500N-10000E	1	10	8	75	.1	10	8	295	3.03	15	5	ND	1	64	.7	2	5	76	.77	.030	10	27	.60	115	.20	33	4.20	.10	.44	1
13500N-10050E	1	21	2	64	.3	10	11	385	3.43	16	5	ND	1	68	.4	2	7	81	.86	.029	10	35	.82	127	.19	41	4.44	.10	.48	1
13500N-10100E	1	49	26	96	.2	18	17	584	3.93	23	5	ND	1	75	.8	4	2	93	.93	.041	12	30	.78	144	.21	39	5.01	.11	.48	1
13500N-10150E	1	78	7	111	.1	17	17	588	4.63	22	5	ND	1	85	.4	3	2	122	1.01	.076	10	24	.96	110	.25	35	4.77	.09	.30	1
13500N-10200E	1	63	13	130	.1	14	15	605	4.32	10	5	ND	1	81	.2	3	2	113	1.06	.097	9	28	1.07	112	.27	30	4.79	.10	.32	1
STANDARD C	19	60	41	133	7.0	73	31	1056	3.98	40	16	7	38	53	19.0	15	20	55	.52	.093	37	61	.90	182	.07	35	1.90	.06	.14	12

ICP - ANALYSED AS RECEIVED, DILUTION FACTOR .2 G/11 ML.
- SAMPLE TYPE: SOLUTION (Soil)

DATE RECEIVED: SEP 12 1990 DATE REPORT MAILED: Sept 14/90. 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
13500N-10250E	1	84	9	108	.1	11	14	1197	4.07	15	5	ND	1	102	.5	4	2	108	1.39	.067	10	29	1.03	172	.21	48	4.37	.06	.37	3
13500N-10400E	1	20	13	105	.2	7	10	703	3.13	9	5	ND	1	111	.2	3	2	72	1.49	.035	12	25	.86	136	.23	44	4.31	.07	.33	1
13500N-10450E	1	20	3	58	.2	11	8	449	3.02	14	5	ND	1	106	.7	7	8	70	1.39	.023	12	30	.85	133	.23	43	3.98	.06	.34	1
13500N-10500E	1	25	2	91	.3	10	10	393	3.51	10	9	ND	1	80	.2	2	8	82	.98	.105	13	30	.70	107	.27	32	3.78	.08	.28	3
13500N-10550E	1	25	3	82	.2	13	11	439	3.63	2	5	ND	1	88	.3	2	8	88	1.11	.052	15	30	.72	112	.29	28	3.59	.08	.25	1
13500N-10600E	1	17	14	75	.3	15	11	409	3.47	13	7	ND	1	97	.9	7	7	90	1.34	.052	13	36	.78	87	.34	28	3.68	.08	.21	1
13500N-10650E	1	22	6	81	.1	16	11	378	3.47	7	5	ND	1	81	.3	2	8	85	1.07	.064	15	37	.73	101	.30	30	3.56	.08	.26	1
13500N-10700E	1	24	2	84	.3	23	12	462	3.66	5	5	ND	1	88	.5	4	4	88	1.20	.053	14	44	.89	107	.31	33	3.82	.08	.29	1
13500N-10750E	1	65	10	94	.3	26	13	450	4.55	8	5	ND	1	82	.6	3	14	116	1.12	.104	12	34	1.08	93	.35	30	4.52	.08	.25	1
13500N-10800E	1	46	11	144	.2	32	18	912	4.22	14	5	ND	1	106	1.0	5	16	106	1.58	.071	12	42	1.21	111	.36	40	4.56	.10	.26	1
13500N-10850E	1	49	12	73	.2	29	13	469	3.87	15	5	ND	1	107	.3	5	6	90	1.43	.073	13	46	1.04	115	.33	39	4.42	.07	.25	4
13500N-10900E	1	32	2	69	.2	26	13	482	3.66	16	5	ND	1	133	1.0	2	4	81	1.60	.056	11	37	.94	114	.32	31	4.44	.06	.24	1
13500N-10950E	1	30	2	107	.5	20	14	822	4.06	8	6	ND	1	104	.8	2	2	95	1.43	.077	13	35	.92	109	.34	30	4.10	.09	.26	2
13500N-11000E	1	51	5	94	.1	27	15	743	4.06	13	5	ND	1	105	.7	3	2	94	1.41	.109	14	36	.94	122	.30	28	4.44	.08	.29	1
13500N-11050E	1	26	11	70	.3	15	10	809	3.69	7	5	ND	1	115	.3	2	9	92	1.62	.082	11	39	.74	105	.30	38	3.97	.09	.29	1
13500N-11100E	1	16	2	85	.2	5	8	600	3.44	9	7	ND	2	104	.5	2	2	92	1.17	.091	15	30	.53	93	.35	32	3.54	.09	.24	1
13500N-11150E	1	43	3	73	.3	25	12	528	4.29	14	5	ND	1	110	.3	3	5	102	1.48	.071	12	39	.95	99	.31	29	3.91	.08	.22	1
13500N-11200E	1	24	13	84	.1	18	14	909	3.61	3	5	ND	2	96	.2	2	2	98	1.41	.050	19	54	.89	131	.33	34	3.86	.08	.22	2
13500N-11250E	1	33	17	95	.1	14	10	1030	3.95	15	5	ND	1	79	.9	4	6	93	.95	.101	12	28	.86	125	.31	44	4.54	.10	.33	1
NL CHECK	20	50	57	158	.9	27	23	512	2.69	91	5	ND	5	137	2.3	4	4	41	1.09	.062	21	142	.49	142	.17	54	1.80	.13	.54	1
13500N-11300E	1	16	11	78	.1	15	9	420	3.97	8	6	ND	3	95	.7	3	2	99	1.26	.041	22	49	.74	85	.36	37	3.41	.08	.21	2
13500N-11350E	1	25	8	88	.1	15	10	661	3.49	6	9	ND	1	84	.2	3	3	89	1.11	.069	11	28	.80	100	.30	31	4.10	.10	.28	1
13500N-11400E	1	36	8	93	.2	20	13	958	3.83	6	5	ND	1	87	.6	4	11	90	1.31	.108	14	35	.91	129	.31	29	4.28	.10	.33	1
13500N-11450E	1	33	5	107	.2	16	13	1288	3.61	2	5	ND	1	83	.7	2	6	85	1.10	.106	12	27	.86	133	.29	31	4.51	.10	.34	1
13500N-11500E	1	27	13	109	.3	20	12	682	3.83	8	6	ND	1	88	.6	5	2	87	1.24	.099	13	33	.86	119	.31	31	4.32	.10	.32	1
13500N-11550E	1	20	10	72	.1	14	9	492	3.13	3	5	ND	2	98	1.0	2	12	88	1.22	.055	19	33	.73	109	.35	37	3.77	.10	.22	2
13500N-11600E	1	44	11	113	.2	20	22	3120	3.45	2	5	ND	1	95	.8	7	7	86	1.52	.160	16	36	.84	167	.29	42	3.83	.09	.28	1
13500N-11650E	1	54	6	59	.1	19	13	828	3.55	7	5	ND	2	82	.9	2	13	90	1.14	.141	18	38	.75	175	.31	36	4.26	.09	.30	1
13500N-11700E	1	28	2	69	.2	13	9	593	3.57	13	6	ND	2	90	.7	3	2	95	1.10	.157	19	41	.62	117	.39	44	3.32	.08	.24	1
13500N-12150E	1	43	13	96	.1	20	14	1707	4.17	10	5	ND	1	91	1.0	2	6	98	1.27	.162	15	37	.80	217	.31	42	3.88	.08	.29	1
STANDARD C	19	61	37	131	7.0	71	31	1054	3.97	39	20	8	38	52	18.9	15	22	56	.51	.100	40	60	.89	181	.07	35	1.89	.06	.13	13

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
13500N-12200E	1	42	4	109	.4	13	12	1190	4.45	10	5	ND	3	108	1.3	5	7	116	1.54	.107	14	35	.78	160	.37	50	3.91	.11	.37	3
13500N-12250E	1	40	12	77	.1	17	15	1092	3.57	8	5	ND	1	112	1.4	2	2	100	1.69	.058	22	51	.82	128	.36	33	3.71	.09	.26	1
13500N-12300E	1	16	10	54	.1	6	6	384	3.10	2	5	ND	1	115	1.1	5	13	105	1.79	.042	15	33	.53	80	.42	33	3.05	.10	.20	2
13500N-12350E	1	22	10	72	.1	21	11	524	3.64	2	5	ND	1	114	1.4	6	10	109	2.03	.038	13	42	.93	100	.38	37	3.82	.14	.26	2
13500N-12400E	1	22	8	69	.1	15	9	505	3.76	8	5	ND	1	109	1.4	5	8	113	1.77	.052	13	36	.81	93	.39	36	3.71	.12	.24	1
13500N-12450E	1	21	8	56	.1	12	7	403	3.72	9	5	ND	1	108	.7	2	2	110	1.65	.107	16	39	.64	84	.39	31	3.71	.12	.23	1
13500N-12500E	1	29	16	95	.1	18	11	566	3.96	6	5	ND	1	97	1.8	6	9	109	1.55	.097	13	40	.90	115	.37	36	4.40	.13	.30	1
13500N-12550E	1	18	2	36	.1	17	7	406	3.65	2	5	ND	1	101	.4	2	2	102	1.58	.041	15	40	.78	94	.37	19	3.81	.12	.22	1
13500N-12600E	1	15	5	52	.1	13	6	325	3.17	3	5	ND	1	93	1.0	2	8	88	1.29	.050	19	39	.57	98	.36	47	3.71	.10	.27	1
13500N-12650E	1	35	5	63	.1	28	12	417	4.51	8	5	ND	1	95	1.0	3	2	111	1.49	.054	16	51	.80	121	.33	49	4.55	.12	.32	2
13500N-12700E	1	40	6	71	.3	28	13	438	3.99	7	5	ND	2	94	1.8	9	2	96	1.50	.073	14	51	.86	104	.30	37	4.38	.08	.26	1
13500N-12750E	1	23	11	73	.1	18	12	701	3.04	10	5	ND	1	84	.8	7	2	80	1.20	.048	14	34	.67	134	.28	39	4.18	.10	.33	2
13500N-12800E	1	20	8	94	.3	13	10	633	3.39	2	8	ND	1	72	.6	2	6	84	1.00	.048	11	20	.66	134	.24	50	4.87	.10	.32	1
13500N-12850E	1	24	8	131	.1	15	12	720	3.63	2	5	ND	1	79	.9	2	4	90	1.07	.083	10	25	.75	146	.25	53	5.33	.11	.38	1
13500N-12900E	1	10	3	48	.1	6	6	275	2.36	7	5	ND	1	95	1.0	2	4	75	1.18	.028	15	21	.43	81	.31	36	3.66	.09	.19	3
13500N-12950E	1	19	4	58	.1	24	9	419	3.06	4	11	ND	1	98	1.1	6	2	77	1.66	.018	13	33	.92	115	.28	36	3.88	.10	.20	1
13500N-13000E	1	21	3	79	.1	13	10	401	3.84	8	12	ND	1	81	1.6	2	2	86	1.16	.083	12	28	.73	106	.30	42	4.39	.09	.28	1
13900N-8800E	2	32	11	74	.2	25	14	570	3.00	27	5	ND	1	79	.2	5	5	78	1.42	.025	13	57	.80	120	.24	41	3.52	.09	.38	1
13900N-8850E	2	61	12	84	.1	38	15	829	3.74	25	5	ND	1	81	.9	7	2	86	1.39	.044	13	72	1.01	158	.25	40	4.32	.08	.50	1
13900N-8900E	1	73	15	80	.1	40	15	589	3.65	16	5	ND	1	81	2.1	5	2	84	1.41	.053	13	67	1.05	132	.26	41	4.19	.09	.47	2
13900N-8950E	1	34	15	115	.1	45	16	1039	3.34	29	5	ND	1	74	1.0	6	2	74	1.34	.075	11	96	.98	153	.22	44	4.12	.09	.52	2
13900N-9000E	1	37	6	78	.3	30	14	527	3.21	17	5	ND	1	74	.2	2	7	79	1.30	.025	13	89	.91	102	.25	36	3.69	.08	.36	1
13900N-9050E	1	21	19	81	.4	24	11	324	2.60	20	8	ND	1	70	.8	6	9	77	1.29	.031	12	96	.67	95	.26	43	3.25	.08	.31	1
13900N-9100E	1	19	13	52	.1	36	13	368	3.11	17	5	ND	1	70	.6	2	2	79	1.23	.023	11	80	.80	95	.25	10	3.45	.08	.27	2
13900N-9150E	1	31	6	106	.4	25	13	704	3.07	10	8	ND	1	78	.4	5	2	73	1.33	.024	12	59	.78	120	.24	40	3.59	.08	.33	1
13900N-9200E	1	24	6	100	.2	32	14	350	3.15	23	5	ND	1	70	1.4	5	2	75	1.16	.014	14	63	.85	101	.25	37	3.67	.09	.32	1
13900N-9250E	1	39	6	94	.1	33	14	478	3.44	27	5	ND	1	66	.2	6	2	81	1.24	.040	9	107	.96	92	.23	31	3.62	.08	.30	1
13900N-9300E	1	21	15	569	.3	30	14	453	3.35	30	15	ND	1	60	2.6	4	5	73	.95	.031	14	58	.89	127	.27	43	4.22	.07	.35	1
13900N-9350E	3	99	2	458	.1	22	10	369	5.86	40	5	ND	1	36	1.7	2	4	48	.46	.066	15	23	.68	320	.13	54	5.80	.05	.87	1
13900N-9400E	1	13	3	88	.1	22	10	301	2.48	13	5	ND	1	71	1.5	2	11	68	1.14	.018	13	74	.65	81	.24	40	2.98	.08	.27	1
STANDARD C	19	62	40	133	7.3	72	32	1057	3.99	43	16	7	39	52	18.4	16	21	58	.52	.094	40	59	.90	182	.08	38	1.90	.07	.13	13

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
13900N-9450E	1	29	2	79	.2	16	11	457	3.62	23	5	ND	1	67	1.3	2	7	74	.82	.030	9	46	.79	123	.18	50	4.27	.08	.40	5
13900N-9500E	1	18	5	80	.1	19	11	427	2.83	7	7	ND	1	77	1.2	2	4	77	1.16	.019	10	49	.73	96	.23	37	3.49	.08	.26	1
13900N-9550E	1	17	2	85	.1	22	12	531	3.26	17	5	ND	1	85	1.3	2	7	82	1.17	.039	11	53	.76	108	.25	37	3.77	.08	.27	1
13900N-9600E	1	12	9	143	.2	16	13	1164	2.85	2	5	ND	1	82	1.5	2	7	69	1.10	.105	12	37	.72	142	.25	32	3.39	.08	.30	3
13900N-9650E	1	22	4	96	.1	15	12	487	3.05	13	5	ND	1	79	1.0	2	3	71	1.05	.089	13	38	.80	140	.23	48	4.22	.09	.43	1
13900N-9700E	1	20	4	111	.1	18	12	907	3.15	2	5	ND	1	78	1.2	2	11	76	1.03	.058	13	36	.89	165	.23	48	4.18	.10	.43	1
13900N-9750E	1	15	8	66	.1	16	8	633	2.66	11	5	ND	1	64	.5	2	7	58	.84	.037	13	25	.78	220	.18	66	5.08	.08	.91	1
13900N-9800E	1	27	5	78	.1	18	12	934	3.28	10	5	ND	1	73	.3	2	3	74	.94	.028	13	41	.95	205	.19	56	4.77	.09	.67	1
13900N-9850E	1	23	8	72	.1	19	10	585	3.29	10	5	ND	1	68	.2	2	6	69	.75	.026	13	36	1.19	247	.16	58	5.84	.11	.89	1
NL CHECK	21	52	70	168	1.1	34	24	541	2.81	99	5	ND	5	146	2.7	4	8	43	1.16	.065	23	155	.51	148	.17	48	1.84	.14	.56	1
13900N-9900E	1	23	11	61	.1	14	9	494	3.14	7	5	ND	1	63	.5	2	2	64	.70	.024	11	39	1.10	227	.14	60	5.33	.09	.82	1
13900N-9950E	1	103	12	86	.2	20	16	979	4.45	12	5	ND	1	92	.4	3	3	119	1.40	.052	11	44	1.44	226	.20	57	4.90	.07	.76	1
13900N-10000E	1	173	2	93	.1	19	25	1574	6.29	37	5	ND	1	107	.4	2	2	183	1.59	.067	8	32	1.47	138	.27	39	5.34	.08	.31	1
13900N-10050E	1	51	3	94	.1	19	18	1052	4.35	54	5	ND	1	93	1.5	2	3	110	1.32	.053	10	26	1.09	188	.23	55	5.12	.08	.58	1
13900N-10100E	2	63	14	76	.1	15	12	421	4.53	29	6	ND	1	108	.7	2	5	115	1.25	.058	11	24	.96	142	.26	50	5.20	.08	.37	1
13900N-10150E	1	30	10	102	.1	9	12	537	3.69	9	5	ND	1	106	1.4	2	8	103	1.31	.057	12	24	.71	106	.28	31	3.85	.09	.28	1
13900N-10200E	5	248	2	168	.5	16	13	1100	3.94	29	5	ND	1	65	1.7	2	4	95	1.98	.063	8	25	.86	134	.16	63	6.22	.08	.30	1
13900N-10250E	2	65	3	123	.1	13	16	1039	4.50	88	5	ND	1	127	1.2	2	5	142	1.86	.038	9	31	1.14	135	.24	47	4.61	.08	.28	1
13900N-10300E	1	116	2	120	.3	13	17	801	4.94	13	5	ND	1	172	.5	2	2	147	2.33	.020	9	22	1.47	126	.27	62	5.02	.05	.29	3
13900N-10350E	2	115	22	86	.2	20	13	905	3.96	18	5	ND	1	79	1.1	2	6	111	1.37	.057	17	36	.91	136	.27	44	5.07	.09	.25	1
13900N-10400E	1	66	2	69	.1	22	14	448	4.63	23	5	ND	1	113	.7	2	4	109	1.38	.066	11	35	1.02	117	.26	43	4.39	.06	.31	1
13900N-10450E	1	51	2	65	.1	11	15	538	4.00	7	5	ND	1	97	1.3	2	4	127	1.32	.027	10	30	1.10	89	.28	28	3.69	.07	.20	1
13900N-10500E	1	60	12	93	.1	11	14	444	4.05	14	8	ND	1	83	.9	2	5	108	1.02	.062	10	24	.86	91	.27	32	4.15	.08	.23	1
13900N-10550E	1	47	4	99	.1	11	11	502	4.00	6	5	ND	1	87	1.1	2	2	92	1.09	.124	12	24	.73	108	.28	35	3.95	.08	.27	1
13900N-10600E	1	31	2	66	.1	6	8	370	3.70	15	5	ND	1	92	1.1	2	7	92	1.16	.089	14	27	.70	92	.29	29	3.92	.09	.24	2
13900N-10650E	1	31	9	94	.1	10	11	488	4.15	20	5	ND	1	85	1.6	2	2	100	1.11	.152	15	26	.63	120	.34	33	3.78	.09	.22	1
13900N-10700E	1	20	7	60	.1	16	8	384	3.92	12	5	ND	1	96	1.6	2	2	102	1.30	.093	15	37	.72	95	.36	30	3.74	.10	.24	1
13900N-10750E	1	34	2	82	.1	19	11	418	3.96	15	6	ND	1	84	.8	2	4	99	1.16	.099	13	30	.80	94	.31	35	3.96	.09	.25	1
13900N-10800E	1	36	12	76	.1	15	11	404	3.90	14	11	ND	1	86	.4	2	2	103	1.22	.076	12	31	.76	83	.29	31	3.82	.08	.22	1
13900N-10850E	1	59	15	86	.2	21	14	550	3.86	6	5	ND	1	73	1.3	4	6	91	1.12	.097	8	30	1.14	97	.25	40	4.51	.08	.30	1
STANDARD C	19	62	39	133	7.1	73	32	1055	3.99	40	15	7	38	52	18.4	15	19	57	.51	.094	39	59	.90	182	.08	38	1.89	.06	.13	13

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
13900N-10900E	1	45	6	91	.5	20	12	413	3.51	5	5	ND	2	76	.4	2	2	84	1.01	.104	13	34	.89	99	.28	43	4.48	.07	.26	5
13900N-10950E	2	32	8	117	.2	19	12	482	4.07	3	5	ND	1	74	1.8	2	5	96	.96	.112	11	31	.88	128	.27	35	4.51	.08	.33	4
13900N-11000E	3	36	9	66	.3	20	17	1173	3.31	10	5	ND	1	93	.7	4	5	93	1.71	.127	13	29	.91	108	.26	37	3.59	.07	.22	2
13900N-11050E	4	45	10	92	.4	28	17	1442	4.44	7	5	ND	1	85	.6	2	2	126	1.41	.187	14	41	1.02	135	.29	37	5.31	.07	.22	2
13900N-11100E	4	40	19	75	.4	29	15	413	4.60	10	5	ND	1	101	.7	2	2	106	1.43	.068	12	38	.96	142	.35	33	4.73	.07	.23	1
13900N-11150E	3	17	2	80	.1	14	8	345	3.01	8	5	ND	1	88	.4	2	6	79	1.35	.093	13	35	.60	96	.31	30	3.22	.07	.20	2
13900N-11250E	3	21	11	57	.1	14	7	299	3.14	2	5	ND	1	95	1.2	2	2	84	1.22	.061	15	39	.48	106	.32	32	3.08	.07	.18	1
13900N-11400E	2	27	10	67	.1	15	9	419	2.73	2	5	ND	1	95	.6	2	2	70	1.88	.100	11	35	.71	167	.27	30	3.48	.06	.24	1
13900N-11450E	1	33	4	59	.3	21	11	372	3.93	8	5	ND	1	95	.8	5	6	82	1.34	.105	15	38	.80	109	.30	32	4.10	.06	.24	2
13900N-11500E	2	49	2	91	.1	24	15	518	3.78	13	5	ND	1	97	1.7	9	3	88	1.28	.079	12	34	1.05	128	.30	41	4.80	.07	.31	1
13900N-11550E	1	33	18	97	.1	18	11	474	3.65	8	5	ND	2	90	.5	2	2	82	1.22	.105	14	40	.78	102	.29	46	4.15	.08	.27	1
13900N-11600E	1	26	10	93	.3	17	9	375	3.26	2	5	ND	2	84	1.5	2	13	78	1.06	.068	15	33	.69	106	.30	68	3.94	.08	.23	1
13900N-11650E	1	30	33	90	.1	26	11	524	3.93	4	5	ND	1	100	.5	3	2	89	1.21	.077	11	43	.95	110	.29	39	4.30	.10	.30	3
13900N-11700E	1	42	10	78	.1	30	12	481	3.65	5	5	ND	1	91	.8	2	7	83	1.32	.088	13	51	.99	94	.28	35	3.97	.07	.25	1
13900N-11750E	1	23	16	73	.2	20	8	441	3.47	8	8	ND	1	87	1.3	2	2	90	.98	.091	13	38	.64	105	.31	33	3.46	.10	.28	3
13900N-11800E	1	35	2	88	.2	14	9	434	3.61	10	6	ND	2	77	1.1	2	10	79	.96	.081	14	24	.73	95	.29	32	4.05	.08	.25	1
13900N-11850E	1	19	13	64	.1	12	7	360	3.18	6	5	ND	2	87	1.0	4	3	86	1.09	.052	15	29	.50	85	.36	30	3.31	.08	.18	1
13900N-11900E	1	28	17	71	.1	22	10	564	4.02	4	5	ND	1	94	1.6	2	4	92	1.28	.084	15	36	.79	104	.33	27	3.71	.08	.24	1
13900N-11950E	1	25	15	107	.1	16	11	830	3.80	8	5	ND	1	97	1.5	6	2	93	1.30	.063	14	33	.71	131	.32	26	3.95	.09	.26	2
13900N-12000E	1	33	2	85	.2	24	11	562	3.54	11	5	ND	1	91	.2	6	2	90	1.38	.066	12	39	.79	110	.28	30	3.52	.07	.23	2
13900N-12050E	1	41	11	82	.1	20	12	580	4.12	8	5	ND	2	97	.7	4	15	100	1.44	.072	11	36	.88	116	.30	46	3.94	.08	.21	1
13900N-12100E	1	18	16	71	.1	17	10	403	3.76	5	5	ND	2	82	.5	4	2	83	1.11	.084	19	33	.69	125	.31	37	4.40	.11	.24	2
13900N-12150E	1	23	9	85	.2	19	10	440	3.65	8	8	ND	1	110	.8	2	2	91	1.58	.059	13	42	.73	96	.30	33	3.77	.07	.22	1
13900N-12200E	1	11	8	61	.1	13	7	311	2.86	5	5	ND	3	76	.5	2	11	72	.93	.053	16	24	.46	123	.28	35	3.94	.07	.27	1
13900N-12250E	1	12	4	129	.1	15	9	389	2.50	2	7	ND	3	78	.9	2	2	63	1.04	.047	17	32	.61	131	.28	22	3.65	.07	.15	1
13900N-12300E	1	16	8	64	.1	18	8	306	3.07	2	5	ND	3	65	.7	2	8	66	.80	.067	13	25	.52	128	.23	41	4.07	.07	.28	1
13900N-12350E	1	15	12	81	.1	16	9	513	2.55	2	5	ND	1	84	.8	2	3	68	1.31	.027	14	29	.71	112	.29	22	3.69	.08	.19	1
13900N-12400E	1	12	20	91	.1	15	6	308	2.97	4	5	ND	1	77	.2	2	2	78	1.00	.075	12	21	.50	99	.29	29	3.82	.09	.19	1
13900N-12450E	1	19	15	113	.2	16	9	988	2.81	2	5	ND	2	79	.7	6	15	74	1.08	.040	14	27	.64	139	.25	41	4.73	.10	.20	3
NL CHECK	20	52	62	142	1.0	38	23	520	2.84	91	5	ND	6	133	2.5	4	4	42	1.08	.063	20	148	.48	147	.18	37	1.75	.12	.52	4
STANDARD C	19	60	37	131	7.0	72	31	1054	3.97	39	15	7	37	53	18.9	14	19	56	.52	.098	37	61	.89	182	.07	35	1.89	.06	.14	12

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
NL CHECK	20	52	81	155	1.4	28	23	528	2.70	90	5	ND	6	141	2.2	2	10	42	1.24	.063	23	146	.49	144	.17	34	1.76	.13	.55	1
13900N-12500E	1	26	20	57	.5	16	11	343	3.47	6	5	ND	2	67	.2	2	3	79	.92	.041	12	25	.71	131	.24	33	4.44	.08	.27	1
13900N-12550E	1	19	14	55	.2	14	8	321	3.85	3	5	ND	2	79	.2	2	6	91	1.01	.077	12	29	.57	105	.29	43	4.34	.09	.28	1
13900N-12600E	1	15	18	67	.4	14	7	301	2.97	8	5	ND	2	73	.2	2	9	75	1.04	.087	12	25	.55	100	.24	36	4.22	.08	.25	1
13900N-12650E	1	22	18	72	.4	8	9	341	3.63	2	5	ND	1	68	.2	2	10	82	.97	.065	11	22	.68	113	.26	35	4.83	.09	.25	1
13900N-12700E	1	17	14	95	.3	12	10	336	3.70	5	5	ND	1	79	.2	2	6	85	1.07	.058	11	24	.59	101	.29	26	4.72	.08	.22	1
13900N-12750E	1	17	27	51	.2	19	9	351	3.73	10	5	ND	1	84	.4	2	5	82	1.16	.043	10	31	.66	101	.28	32	3.95	.08	.24	1
13900N-12800E	1	14	18	81	.4	13	8	324	3.53	4	5	ND	1	81	.4	2	14	80	1.18	.060	11	29	.61	107	.29	30	4.26	.09	.23	2
13900N-12850E	1	19	15	68	.4	15	9	360	3.88	6	5	ND	1	77	.2	3	7	89	1.15	.056	9	26	.64	111	.26	32	4.54	.08	.29	1
13900N-12900E	1	10	23	33	.4	8	5	295	1.94	2	5	ND	1	85	.2	2	10	56	1.23	.018	10	32	.51	118	.23	39	3.59	.07	.26	1
13900N-12950E	1	15	12	92	.4	13	10	373	3.31	3	10	ND	2	84	.2	2	10	76	1.20	.054	10	30	.67	102	.28	40	4.00	.08	.24	2
13900N-13000E	1	17	10	100	.1	15	9	443	3.34	2	5	ND	1	88	.2	2	5	77	1.24	.054	11	30	.69	98	.28	30	3.99	.08	.25	1
14300N-9000E	1	57	5	662	.7	32	20	1485	4.02	22	5	ND	2	78	2.6	3	2	72	1.23	.137	11	57	1.00	231	.22	36	4.18	.07	.52	1
14300N-9050E	1	65	19	416	.5	28	19	1942	4.47	17	5	ND	1	72	1.0	6	5	75	1.23	.140	12	42	.98	345	.20	47	4.94	.11	.69	1
14300N-9100E	1	57	17	219	.4	27	17	1151	4.43	24	6	ND	1	66	.8	2	9	74	1.01	.052	11	57	.99	219	.19	42	4.79	.09	.70	1
14300N-9150E	1	60	14	252	.1	30	17	1494	4.63	27	5	ND	1	67	.2	3	2	77	1.02	.066	13	54	.99	286	.21	48	4.92	.08	.69	1
14300N-9200E	1	84	15	116	.4	32	16	577	5.16	40	8	ND	1	59	.3	2	3	82	.97	.033	11	76	1.02	219	.19	47	4.88	.09	.75	1
14300N-9250E	1	55	23	159	.2	12	15	2819	2.52	14	5	ND	1	78	1.8	2	8	35	2.85	.161	10	20	.61	474	.10	46	2.74	.04	.51	1
14300N-9300E	1	59	19	425	.4	29	15	1591	3.91	10	5	ND	1	78	1.5	5	12	63	1.52	.116	12	69	.99	272	.19	46	4.16	.07	.59	1
14300N-9350E	1	36	24	251	.2	33	14	1348	3.86	11	5	ND	1	74	.2	2	7	72	1.29	.074	11	75	.97	307	.20	48	4.71	.12	.63	1
14300N-9400E	1	41	18	382	.3	29	16	2458	3.61	12	5	ND	1	69	1.4	2	2	70	1.45	.083	11	67	.84	230	.21	34	3.65	.07	.39	1
14300N-9450E	1	31	15	168	.3	14	11	1872	2.63	2	5	ND	1	63	1.2	4	4	52	1.80	.042	8	29	.58	384	.17	36	2.84	.07	.45	1
14300N-9500E	1	40	10	101	.1	24	13	701	4.13	16	5	ND	1	64	.7	2	2	77	.97	.035	12	58	.96	176	.20	34	4.81	.11	.53	1
14300N-9550E	1	24	32	119	.1	23	14	2212	3.70	2	5	ND	1	69	1.0	4	7	73	1.20	.086	11	48	.99	257	.22	43	4.31	.10	.53	1
14300N-9600E	1	32	14	64	.5	25	12	493	3.61	11	5	ND	1	58	.2	2	2	81	1.00	.018	7	81	1.00	127	.19	29	3.90	.07	.41	1
14300N-9650E	1	27	20	62	.3	23	14	371	3.89	2	5	ND	1	67	.2	2	10	105	.92	.017	10	65	1.21	142	.20	35	4.34	.07	.37	1
14300N-9700E	1	30	26	69	.1	21	15	752	4.03	2	5	ND	1	67	.2	2	3	103	.97	.023	9	49	1.20	195	.21	38	4.40	.07	.43	1
14300N-9750E	2	56	18	63	.1	27	15	467	4.20	4	7	ND	1	66	.3	2	12	102	1.04	.016	10	62	1.25	157	.21	38	4.48	.07	.45	1
14300N-9800E	2	31	10	59	.1	22	13	406	3.64	2	5	ND	1	74	.3	2	3	97	1.14	.013	11	67	1.12	131	.23	32	3.89	.07	.31	1
14300N-9850E	2	34	24	88	.4	24	15	1056	4.09	7	5	ND	1	81	.2	5	9	102	1.07	.043	12	62	1.21	179	.25	36	4.58	.08	.32	1
STANDARD C	19	62	37	133	7.3	73	31	1055	3.98	39	16	7	38	52	18.9	16	20	56	.52	.094	39	61	.90	183	.08	37	1.89	.06	.13	13

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
14300N-9900E	1	31	7	89	.2	24	15	2078	3.68	4	5	ND	1	76	1.3	3	4	92	1.40	.075	9	50	1.21	175	.22	40	3.89	.07	.35	1
14300N-9950E	1	112	9	106	.3	23	19	622	4.68	5	7	ND	1	87	1.3	7	3	117	1.30	.037	8	44	1.74	166	.24	32	5.52	.07	.38	1
14300N-10000E	1	42	2	87	.2	39	18	712	4.34	2	5	ND	1	86	.2	2	2	109	1.10	.036	7	69	1.80	130	.24	37	5.07	.07	.34	1
14300N-10050E	3	68	8	103	.2	17	13	863	3.95	2	5	ND	1	80	.3	3	2	100	1.49	.031	10	38	1.10	165	.22	38	4.66	.08	.30	1
14300N-10100E	1	30	3	137	.1	16	12	762	3.57	10	5	ND	1	89	.5	4	2	99	1.33	.083	10	30	.83	127	.29	32	3.73	.09	.24	1
14300N-10150E	1	35	6	80	.1	12	11	452	4.02	4	5	ND	1	100	1.6	2	4	113	1.45	.045	9	28	1.01	105	.26	32	4.09	.08	.26	1
14300N-10200E	1	31	6	110	.2	13	13	580	3.81	2	5	ND	1	105	1.1	8	2	100	1.51	.079	9	25	.90	105	.25	44	4.34	.08	.28	1
14300N-10250E	1	25	2	100	.2	10	9	340	3.36	7	5	ND	1	87	.2	4	3	99	1.21	.033	9	28	.70	104	.25	39	3.59	.08	.26	1
14300N-10300E	1	56	12	114	.3	14	12	466	3.74	2	5	ND	1	101	1.3	5	2	93	1.44	.069	8	40	.91	126	.26	39	4.41	.09	.30	1
14300N-10350E	1	28	10	116	.6	19	12	1271	3.28	3	5	ND	2	88	.7	6	3	80	1.43	.054	11	37	.85	208	.24	46	3.95	.09	.35	1
14300N-10400E	1	51	19	98	.1	19	12	457	3.79	4	5	ND	1	100	1.0	4	2	88	1.30	.043	10	37	1.00	146	.25	50	5.21	.09	.31	1
14300N-10450E	1	47	2	141	.2	12	13	1307	3.80	2	5	ND	1	107	.5	2	2	92	1.44	.100	9	22	.79	152	.25	47	5.02	.09	.31	1
14300N-10500E	1	21	2	53	.3	5	6	218	2.49	2	8	ND	1	93	1.5	5	3	71	1.14	.032	9	7	.42	168	.14	124	4.98	.21	.57	1
14300N-10550E	1	45	16	113	.2	15	13	528	3.27	2	5	ND	1	87	.7	4	5	85	1.42	.037	11	31	.89	120	.26	34	4.33	.10	.22	1
14300N-10600E	1	33	2	98	.1	13	14	667	3.28	2	5	ND	1	87	1.1	4	2	80	1.22	.057	11	28	.82	140	.27	36	4.02	.09	.31	1
14300N-10650E	1	58	2	84	.3	16	13	470	4.40	15	5	ND	1	121	1.0	4	8	110	1.55	.050	8	27	.97	127	.26	44	5.10	.10	.31	1
14300N-10700E	1	29	5	72	.1	14	10	506	3.73	9	5	ND	1	128	.7	2	2	99	1.71	.050	7	23	.77	117	.27	36	4.14	.09	.27	1
14300N-10750E	1	45	2	98	.4	77	18	1098	4.51	13	5	ND	1	89	1.2	2	6	99	1.74	.056	7	69	1.54	132	.32	32	4.93	.13	.25	1
14300N-10800E	1	42	9	68	.1	24	12	466	4.00	8	5	ND	1	99	.5	5	2	95	1.48	.049	9	37	1.05	116	.29	33	4.37	.10	.26	1
NL CHECK	19	54	88	147	.9	31	23	522	2.85	93	5	ND	5	145	2.7	6	2	42	1.31	.064	21	135	.50	156	.17	29	1.86	.14	.58	2
14300N-10850E	1	43	8	59	.1	29	13	742	3.66	2	5	ND	1	111	.8	2	2	93	1.72	.030	10	47	1.04	124	.29	32	3.93	.10	.26	1
14300N-10900E	1	113	22	90	.1	33	15	829	4.47	9	5	ND	1	100	.2	2	6	113	1.54	.055	10	36	1.24	126	.35	30	5.09	.09	.26	2
14300N-10950E	1	29	11	85	.2	21	12	488	3.48	4	5	ND	1	92	1.2	3	5	83	1.39	.053	9	38	.89	91	.29	32	3.94	.09	.25	1
14300N-11000E	1	48	13	73	.2	28	12	481	3.89	11	5	ND	1	94	.8	2	2	91	1.43	.056	11	41	1.03	112	.28	37	4.34	.09	.31	1
14300N-11050E	1	39	2	112	.1	18	12	637	4.14	15	7	ND	1	101	1.6	4	2	94	1.47	.071	10	31	.89	120	.32	30	4.48	.08	.29	2
14300N-11100E	1	24	12	100	.4	13	9	434	3.85	9	10	ND	3	104	1.5	8	3	86	1.32	.061	13	26	.76	118	.31	40	4.61	.09	.30	1
14300N-11150E	1	18	15	49	.1	10	7	507	3.78	2	5	ND	1	102	1.1	2	2	97	1.27	.050	11	22	.69	113	.35	27	4.15	.10	.27	1
14300N-11200E	1	30	15	54	.2	16	10	424	3.94	8	5	ND	1	111	1.3	2	2	93	1.59	.063	10	22	.77	127	.33	36	4.08	.08	.26	1
14300N-11250E	1	24	22	59	.1	14	11	921	3.63	10	5	ND	1	109	.4	2	3	88	1.48	.061	11	22	.71	115	.32	20	3.96	.09	.25	2
14300N-11300E	1	34	26	76	.2	14	14	560	4.32	12	5	ND	1	112	1.6	2	2	103	1.73	.138	10	26	.85	101	.37	26	4.13	.08	.23	3
STANDARD C	18	61	38	131	7.2	72	31	1057	3.98	40	22	7	38	53	18.9	15	23	55	.52	.098	37	60	.90	182	.07	36	1.89	.06	.14	13

Noranda Exploration Co. Ltd. .OJECT 8-87 FILE # 90-4337

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
14300N-11350E	1	151	15	86	.2	33	14	473	4.96	37	7	ND	2	58	.4	7	3	126	.66	.102	22	48	.74	209	.25	32	7.22	.07	.25	1
14300N-11400E	1	15	7	47	.1	11	7	295	3.37	12	5	ND	1	93	.7	2	2	94	1.17	.057	14	32	.45	79	.34	28	3.27	.07	.18	1
14300N-11450E	1	9	13	44	.1	8	6	310	2.03	8	5	ND	3	96	.6	4	5	73	1.17	.017	17	25	.46	116	.31	28	2.88	.09	.23	1
14300N-11500E	1	20	12	67	.3	13	10	372	3.34	9	5	ND	1	90	.6	2	6	90	1.22	.064	13	31	.69	104	.30	22	3.45	.08	.24	2
14300N-11550E	1	15	20	59	.1	11	7	341	3.14	8	5	ND	1	95	.2	3	2	92	1.25	.050	10	23	.61	96	.31	29	3.22	.09	.25	1
14300N-11650E	1	23	11	55	.2	15	10	443	4.24	7	5	ND	1	133	.6	2	2	106	1.82	.059	13	42	.77	117	.34	31	4.56	.08	.26	2
14300N-11700E	1	32	8	54	.1	23	12	429	4.00	17	5	ND	1	93	.4	2	6	92	1.22	.048	14	43	.81	120	.29	35	4.38	.08	.28	1
14300N-11750E	1	21	17	88	.1	20	11	397	3.58	12	5	ND	1	90	.2	5	8	87	1.09	.049	14	32	.64	111	.31	38	4.18	.09	.26	1
14300N-11800E	1	21	14	72	.1	15	9	392	3.78	13	5	ND	1	85	.5	2	9	83	1.07	.086	12	34	.68	99	.30	29	4.19	.08	.25	1
14300N-11850E	1	21	25	83	.2	14	10	405	3.91	16	7	ND	2	91	.3	4	2	97	1.11	.067	12	34	.82	117	.29	36	4.65	.09	.29	1
14300N-11900E	1	17	2	69	.1	13	9	403	2.85	12	5	ND	1	87	.2	6	2	76	1.15	.051	11	26	.67	115	.25	28	3.57	.07	.32	1
14300N-11950E	1	28	17	77	.1	13	11	432	3.76	14	7	ND	1	81	.4	7	3	92	1.09	.039	10	34	.75	129	.24	34	4.13	.07	.24	1
14300N-12000E	1	27	3	76	.1	11	10	394	3.99	15	5	ND	1	85	.4	2	8	93	1.04	.044	10	27	.74	102	.25	25	4.13	.08	.24	1
14300N-12050E	1	41	9	78	.2	19	12	454	4.27	10	5	ND	1	81	.2	2	3	92	1.10	.063	11	37	.91	112	.25	42	4.39	.08	.28	1
14300N-12100E	1	9	11	86	.2	6	6	345	2.43	9	5	ND	1	92	.7	2	4	71	1.29	.035	14	22	.49	86	.28	31	2.90	.07	.18	1
14300N-12150E	1	20	6	82	.1	13	10	339	3.82	20	5	ND	1	76	.2	3	7	87	1.04	.082	9	26	.63	92	.24	28	4.08	.07	.21	1
14300N-12200E	1	13	21	61	.1	8	6	351	3.20	9	5	ND	1	87	.2	2	8	82	1.11	.040	13	26	.55	89	.28	28	3.44	.08	.26	1
14300N-12250E	1	18	12	80	.1	7	8	387	3.37	13	5	ND	1	88	.5	2	2	84	1.11	.065	9	26	.60	92	.25	28	3.74	.08	.26	1
NL CHECK	23	54	74	151	.9	34	25	554	3.18	108	5	ND	5	141	2.1	4	9	46	1.26	.076	22	159	.51	159	.21	37	1.87	.14	.57	1
STANDARD C	18	60	41	132	7.1	72	31	1055	3.97	41	15	7	37	53	18.7	15	21	55	.51	.100	36	61	.89	181	.07	34	1.89	.06	.14	12

NORANDA VANCOUVER LABORATORY

PI ERTY/LOCATION:NEWMAC CODE : 9008-087

Project No. :123 Sheet:1 of 4 Date rec'd:AUG. 20
Material :222 SOILS Geol.:R.K. Date compl:SEP. 21
Remarks :

Values in PPM, except where noted.

T.T. No.	SAMPLE No.	PPB Au
86	13500N-8800E	10
87	8850	35
88	8900	20
89	8950	5
90	9000	80
91	9050	20
92	9100	10
93	9150	30
94	9200	10
95	9250	15
96	9300	5
97	9350	5
98	9400	5
99	9450	5
100	9500	10
2	9550	5
3	9600	30
4	9650	5
5	9700	5
6	9750	5
7	9800	5
8	9850	5
9	9900	5
10	9950	5
11	10000	5
12	10050	5
13	10100	5
14	10150	5
15	10200	5
16	10250	5
17	10400	5
18	10450	5
19	10500	5
20	10550	5
21	10600	5
22	10650	5
23	10700	5
24	10750	5
25	10800	5
26	10850	5
27	10900	5
28	10950	5
29	11000	5
30	11050	5
31	11100	5
32	11150	5
33	11200	5
34	11250	5
35	11300	5
36	11350	5
37	11400	5
38	11450	5
39	11500	5
40	11550	5
41	11600	5
42	11650	5
43	11700	5
44	12150	5
45	12200	5
46	12250	5
47	12300	5
48	13500N-12350E	5

T.T. No.	SAMPLE No.	PPB Au
49	13500N-12400E	5
50	12450	5
1	12500	5
2	12550	5
3	12600	5
4	12650	5
5	12700	5
6	12750	5
7	12800	5
8	12850	5
9	12900	5
10	12950	5
11	13500N-13000E	5
12	13900N-8800E	5
13	8850	5
14	8900	30
15	8950	10
16	9000	5
17	9050	25
18	9100	5
19	9150	5
20	9200	5
21	9250	5
22	9300	5
23	9350	5
24	9400	5
25	9450	20
26	9500	5
27	9550	5
28	9600	5
29	9650	5
30	9700	5
31	9750	5
32	9800	40
33	9850	5
34	9900	5
35	9950	75
36	10000	5
37	10050	5
38	10100	10
39	10150	5
40	10200	5
41	10250	5
42	10300	5
43	10350	5
44	10400	5
45	10450	5
46	10500	5
47	10550	5
48	10600	5
49	10650	5
50	10700	5
2	10750	5
3	10800	5
4	10850	15
5	10900	10
6	10950	5
7	11000	5
8	11050	5
9	11100	5
10	11150	5
11	11250	5
12	11400	5
13	11450	5
14	11500	5
15	11550	5
16	11600	5
17	11650	5
18	11700	5
19	11750	5
20	13900N-11800E	5

T.T. No.	SAMPLE No.	PPB Au
21	13900N-11850E	5
22	11900	5
23	11950	5
24	12000	5
25	12050	90
26	12100	5
27	12150	5
28	12200	5
29	12250	5
30	12300	5
31	12350	5
32	12400	5
33	12450	5
34	12500	5
35	12550	5
36	12600	10
37	12650	5
38	12700	5
39	12750	5
40	12800	5
41	12850	5
42	12900	5
43	12950	5
44	13900N-13000E	5
45	14300N-9000E	5
46	9050	5
47	9100	5
48	9150	5
49	9200	10
50	9250	5
1	9300	5
2	9350	15
3	9400	15
4	9450	20
5	9500	30
6	9550	10
7	9600	10
8	9650	5
9	9700	10
10	9750	5
11	9800	5
12	9850	5
13	9900	5
14	9950	5
15	10000	10
16	10050	5
17	10100	5
18	10150	5
19	10200	10
20	10250	5
21	10300	5
22	10350	5
23	10400	5
24	10450	5
25	10500	5
26	10550	25
27	10650	5
28	10700	5
29	10750	5
30	10800	10
31	10850	5
32	10900	15
33	10950	5
34	11000	5
35	11050	5
36	11100	5
37	11150	5
38	11200	15
39	11250	5
40	11300	5
41	14300N-11350E	5

T.T. No.	SAMPLE No.	PPB Au
42	.4300N-11400E	10
43	11450	5
44	11500	5
45	11550	5
46	11600	5
47	11650	5
48	11700	5
49	11750	5
50	11800	5
2	11850	5
3	11900	5
4	11950	5
5	12000	5
6	12050	5
7	12100	5
8	12150	5
9	12200	5
10	14300N-12250E	75

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Noranda Exploration Co. Ltd. PROJECT 9007-055 123 File # 90-2610 Page 1

P.O. Box 2380, 1050 Davie St., 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
R 114051	1	73	2	64	.1	18	21	581	5.97	8	5	ND	1	19	.7	4	9	141	1.60	.039	3	27	1.63	10	.24	5	2.35	.04	.03	1	2
R 115401	1	8	6	27	.1	59	14	626	1.95	29	5	ND	1	30	.2	2	13	55	4.16	.076	2	76	.81	6	.27	2	1.40	.06	.06	1	9
R 115402	1	6	4	75	.1	4	3	580	1.94	5	5	ND	1	42	.2	3	2	4	1.42	.051	2	7	.93	23	.05	7	1.35	.01	.12	1	4
R 115403	1	237	2	18	.2	10	5	200	3.95	7	5	ND	1	23	.7	2	9	35	1.13	.082	2	42	.22	11	.17	2	1.38	.08	.07	1	1
R 115404	1	118	4	21	.1	27	11	362	3.65	8	5	ND	2	12	1.1	2	8	45	2.03	.058	2	81	.74	5	.16	14	2.15	.03	.02	1	2
R 115407	1	33	3	48	.1	3	5	688	3.06	14	5	ND	2	43	.4	2	2	17	2.27	.052	3	6	.89	32	.01	3	1.51	.03	.12	1	2
R 115408	1	81	2	71	.2	5	7	529	3.44	14	5	ND	1	32	.6	3	2	23	1.96	.055	3	5	.93	21	.01	2	1.53	.02	.10	1	3
R 115409	1	4	2	26	.1	18	11	661	2.16	8	5	ND	1	49	.2	2	7	52	3.43	.071	2	10	.64	4	.20	2	1.11	.04	.03	1	3
R 115410	1	25	2	82	.1	5	10	942	4.60	10	5	ND	1	67	1.3	4	6	67	1.86	.042	2	13	1.35	15	.13	2	3.23	.18	.03	1	1
R 115411	1	36	6	61	.4	43	11	1110	9.62	74	5	ND	2	152	.6	7	2	68	9.99	.034	3	101	3.73	9	.01	2	3.33	.01	.01	1	29
R 115412	1	15	2	57	.1	12	5	367	1.96	3	5	ND	1	14	.2	2	2	17	1.35	.021	4	7	.29	16	.02	4	.87	.04	.09	1	2
R 115413	1	133	2	27	.3	13	10	264	4.83	8	5	ND	1	51	1.4	2	4	80	1.36	.027	2	12	1.06	13	.17	2	2.78	.23	.04	1	2
R 115414	1	42	2	68	.2	30	28	614	7.44	14	5	ND	1	14	.7	6	7	173	.66	.032	2	34	3.02	7	.21	2	3.22	.10	.08	1	3
R 115415	1	109	2	33	.1	26	20	301	5.77	5	5	ND	1	22	.5	2	3	90	1.17	.050	2	29	1.29	8	.13	6	2.12	.10	.08	1	8
R 115416	6	47	6	58	.1	7	3	658	3.77	9	5	ND	1	14	1.1	4	7	25	.70	.060	3	9	1.42	24	.16	2	1.91	.07	.05	1	1
R 115417	1	144	2	29	.2	22	19	540	7.53	19	5	ND	1	19	1.3	3	6	96	1.55	.089	2	42	1.29	7	.14	5	2.43	.06	.04	1	5
R 115418	1	120	2	26	.1	22	17	513	6.46	11	5	ND	1	14	1.0	4	3	93	1.28	.062	2	40	1.23	6	.14	4	2.41	.05	.06	1	10
R 115419	1	128	2	19	.1	22	16	446	5.94	16	5	ND	2	14	1.2	2	6	84	1.20	.063	2	35	.91	8	.12	2	2.04	.05	.06	1	7
R 115420	1	218	6	30	.3	21	17	549	8.74	35	5	ND	1	16	.7	4	5	103	2.28	.057	2	44	1.10	6	.15	13	2.79	.04	.04	1	6
R 115421	1	150	2	22	.1	17	13	320	6.87	12	5	ND	1	33	.6	2	7	72	1.17	.039	2	34	.82	7	.17	4	2.24	.14	.05	1	8
R 115422	1	140	2	22	.1	72	21	381	5.54	30	5	ND	1	24	1.1	3	9	67	2.25	.055	2	104	.85	8	.23	10	2.90	.10	.06	1	4
R 115423	1	30	2	455	.1	9	7	500	3.46	7	5	ND	2	16	4.0	2	2	37	.16	.039	5	13	.83	28	.02	3	1.49	.07	.06	1	6
R 115424	2	22	2	221	.1	8	3	114	2.52	12	5	ND	3	6	1.0	2	2	15	.09	.024	5	5	.12	70	.03	3	.59	.05	.07	1	4
R 115425	1	102	12	250	.1	23	6	337	4.19	24	5	ND	1	8	6.5	2	3	39	.09	.020	6	43	.75	48	.06	5	1.50	.03	.08	1	3
R 115451	1	189	2	24	.2	16	5	301	5.55	14	5	ND	1	14	.8	2	6	47	1.19	.126	2	45	.61	4	.16	3	1.57	.06	.03	1	1
R 115452	1	304	9	29	.1	20	8	389	4.96	18	5	ND	1	16	.8	2	5	42	1.08	.105	2	44	.47	6	.16	2	1.41	.07	.05	1	3
R 115453	1	242	2	23	.1	17	7	348	5.84	15	5	ND	1	16	1.1	2	8	51	1.13	.128	2	45	.41	6	.19	2	1.15	.05	.04	1	1
R 115454	1	297	6	38	.3	30	11	504	4.66	12	5	ND	1	17	.6	2	9	50	1.61	.086	2	64	.64	5	.20	11	1.65	.08	.03	1	1
R 115455	1	346	5	43	.2	43	17	587	3.98	15	5	ND	1	28	.5	2	7	42	2.11	.127	2	61	.76	6	.20	11	1.84	.11	.05	1	2
R 115456	1	322	12	58	.4	57	23	592	5.81	15	5	ND	1	14	1.1	4	8	75	1.51	.052	2	77	1.42	5	.25	3	2.12	.17	.05	1	3
R 115457	1	259	2	59	.2	53	17	528	6.26	11	5	ND	1	14	.5	5	6	83	1.41	.047	2	74	1.50	6	.25	12	2.00	.27	.07	3	4
R 115458	1	490	4	72	.5	63	37	883	6.17	20	5	ND	1	22	1.0	3	10	70	2.87	.053	2	82	1.22	5	.20	6	2.25	.13	.06	1	5
R 115459	1	661	2	75	1.3	37	37	727	8.56	57	5	ND	1	22	.7	2	9	61	1.69	.063	2	87	.87	7	.19	2	1.86	.12	.05	1	13
R 115460	1	749	2	86	.9	43	47	717	5.07	31	5	ND	1	25	.9	2	10	57	2.25	.090	2	74	.85	8	.19	4	1.85	.09	.06	1	10
R 115461	1	463	9	63	.6	44	42	686	7.54	56	5	ND	2	18	.8	2	5	61	2.38	.071	2	82	.93	6	.15	4	1.55	.08	.04	1	12
R 115462	1	195	4	28	.2	37	15	341	5.73	11	5	ND	1	14	.4	2	5	47	.94	.079	2	44	.69	5	.19	2	1.32	.09	.04	5	3
STANDARD C/AU-R	18	57	42	133	7.2	73	31	1027	3.96	41	18	7	37	53	18.4	15	20	55	.48	.094	38	59	.88	179	.07	36	1.86	.06	.14	13	530

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: Rock AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 17 1990 **DATE REPORT MAILED:** July 21/90 **SIGNED BY** C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Noranda Exploration Co. Ltd. PR[illegible]CT 9007-055 123 FILE # 90-2610 [illegible]age 2

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
R 115463	1	134	2	27	.2	39	20	469	6.70	24	5	ND	2	26	.2	2	4	85	1.23	.082	2	22	1.12	10	.32	4	2.02	.09	.07	3	1
R 115464	1	149	2	25	.1	44	21	526	4.26	10	5	ND	1	36	.2	2	5	58	2.10	.059	2	65	.96	13	.24	3	1.69	.11	.08	1	3
R 115465	1	188	4	32	.1	85	22	688	5.10	23	5	ND	2	28	.2	2	2	87	1.68	.037	2	119	1.28	15	.29	13	2.18	.17	.07	1	3
R 115470	1	423	3	17	.1	51	16	404	5.24	2	5	ND	1	28	.2	2	2	86	1.35	.063	3	66	.80	23	.27	4	2.06	.12	.04	1	1
R 115471	1	195	5	29	.1	73	10	357	5.14	10	5	ND	2	36	.2	2	2	69	.42	.017	8	69	1.08	50	.12	4	1.76	.05	.04	1	3
R 115472	3	226	4	29	.1	54	17	421	4.33	14	5	ND	2	24	.2	3	5	41	.75	.020	7	23	.82	50	.11	8	1.68	.05	.04	1	3
R 115473	2	308	3	22	.2	34	14	431	4.69	4	5	ND	2	51	.2	2	2	83	1.23	.056	4	66	.93	26	.23	4	2.08	.15	.05	1	1
R 115474	10	247	3	22	.2	41	13	387	4.36	6	5	ND	2	76	.2	2	3	90	1.45	.038	3	45	.99	45	.28	6	2.68	.22	.08	1	1
R 115475	4	317	5	14	.2	32	14	355	4.93	9	5	ND	2	19	.2	2	3	49	1.08	.063	2	44	.56	23	.24	4	1.48	.12	.05	1	1
R 115626	1	35	2	23	.1	44	13	476	2.52	7	5	ND	1	33	.2	2	4	40	2.20	.070	2	72	.61	13	.31	6	1.82	.05	.09	2	10
R 115627	15	2192	4	42	2.0	159	26	211	6.16	6	5	ND	1	99	.6	2	2	39	2.15	.045	2	135	.88	7	.21	3	3.54	.15	.04	1	64
R 115628	1	805	4	32	.7	12	16	378	4.56	6	5	ND	1	17	.3	2	2	97	1.55	.046	2	29	1.80	16	.18	8	2.79	.07	.04	1	23
R 115629	13	967	3	19	.7	25	20	275	5.28	4	5	ND	2	13	.2	2	2	113	1.15	.042	2	15	1.21	9	.20	6	2.31	.07	.03	1	12
R 117126	1	2	3	118	.1	4	4	1236	3.72	5	5	ND	1	39	.2	2	3	12	2.62	.067	3	3	.83	14	.11	2	2.01	.03	.13	1	1
R 117127	1	24	3	90	.1	6	3	1117	3.33	7	5	ND	1	28	.2	2	3	12	1.89	.063	4	5	.85	17	.11	3	1.76	.04	.07	1	1
R 117128	1	218	3	45	.1	22	16	313	4.10	7	5	ND	1	122	.2	2	4	97	2.23	.053	2	46	.96	13	.40	12	1.96	.03	.01	2	1
R 119451	10	1182	5	18	.7	14	32	368	9.12	12	5	ND	2	20	.6	2	2	85	1.45	.042	2	11	1.19	8	.11	3	2.98	.04	.03	1	5
R 119452	33	364	5	28	.1	39	18	443	5.34	10	5	ND	1	47	.2	2	4	77	2.04	.077	2	74	.56	26	.29	12	2.38	.23	.04	1	4
R 119453	1	2	4	103	.1	3	2	1419	3.99	5	5	ND	1	29	.2	2	2	13	2.47	.075	5	3	.90	15	.03	2	1.93	.05	.05	1	3
R 119601	1	8	5	90	.1	8	4	1079	4.01	4	5	ND	1	45	.3	2	2	13	2.25	.063	6	3	1.20	28	.09	4	2.21	.02	.10	1	3
R 119602	1	70	7	56	.6	6	17	716	3.27	39	5	ND	2	23	.2	2	2	9	1.85	.049	3	5	.54	46	.01	4	1.21	.04	.08	1	82
R 119603	1	91	4	11	.2	21	5	248	3.76	10	5	ND	1	23	.2	2	4	40	2.80	.033	2	92	.53	4	.32	5	2.61	.01	.02	1	3
R 119604	2	57	4	23	.1	15	11	264	2.97	2	5	ND	1	79	.2	2	2	54	2.10	.047	2	21	.92	14	.16	3	3.12	.29	.06	1	3
R 119605	1	2093	3	32	1.0	9	9	190	2.33	2	5	ND	2	35	.3	2	2	55	1.12	.038	3	15	.70	20	.11	4	2.05	.16	.04	1	84
R 119606	35	31193	2	195	19.0	18	26	197	7.31	10	5	3	1	13	3.4	2	3	37	1.14	.049	2	48	.92	4	.09	4	2.01	.06	.04	1	2410
R 119607	3	1711	2	18	1.2	120	21	160	5.64	13	5	ND	2	163	.2	2	2	39	3.13	.044	2	120	.61	6	.23	5	4.44	.15	.04	1	74
R 119608	72	1455	4	23	2.0	103	13	221	5.28	7	5	ND	2	28	.4	2	3	52	2.07	.032	2	205	1.29	5	.24	6	2.92	.12	.04	1	112
R 119609	6	1755	4	43	1.6	173	33	269	6.13	19	5	ND	1	101	.8	2	2	48	2.54	.043	2	177	1.09	7	.24	4	3.93	.15	.05	1	42
R 119610	17	2109	7	37	2.3	174	34	218	6.56	9	5	ND	2	76	.8	2	3	40	2.12	.044	2	145	.94	7	.20	4	3.42	.12	.05	2	80
R 119611	9	1842	4	35	1.5	157	27	161	5.01	8	5	ND	2	86	.4	2	2	31	1.89	.041	2	98	.63	6	.18	4	2.90	.14	.04	1	53
R 119612	1	1209	5	41	.7	13	10	571	3.44	25	5	ND	2	44	.4	2	2	62	3.39	.038	4	20	1.58	9	.01	5	2.34	.03	.04	1	32
R 119613	13	511	3	41	.6	21	18	621	7.12	9	5	ND	2	29	.3	2	2	146	2.26	.037	2	29	1.63	8	.17	3	2.14	.04	.02	1	17
R 119614	6	331	3	19	.3	9	4	105	2.10	24	5	ND	3	6	.2	2	2	18	.13	.017	5	6	.47	14	.01	3	.90	.04	.05	2	11
R 119615	69	920	3	30	.3	58	20	392	6.05	12	5	ND	2	69	.3	2	2	67	2.61	.042	2	123	1.30	21	.15	14	3.88	.18	.03	3	10
R 119616	31	539	4	34	.2	15	18	511	4.89	5	5	ND	2	20	.4	2	2	89	2.67	.040	2	23	1.88	9	.16	6	2.98	.06	.02	1	8
R 119617	1	1805	2	39	1.2	220	31	207	5.10	7	5	ND	1	61	.7	2	2	46	1.72	.038	2	154	1.15	14	.19	6	3.12	.25	.06	1	39
STANDARD C/AU-R	18	60	37	132	7.2	71	31	1025	3.99	40	18	7	39	53	18.5	15	19	57	.51	.093	38	59	.93	181	.09	35	1.97	.06	.14	11	490

Noranda Exploration Co. Ltd. PRO. .T 9007-055 123 FILE # 90-2610

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
R 119618	43	2276	7	139	2.3	24	16	233	3.24	8	5	ND	1	10	1.3	3	3	48	.88	.050	2	27	1.14	12	.08	8	1.74	.07	.03	2	84
R 119619	1	254	4	22	.3	25	36	300	4.00	54	5	ND	1	15	1.4	3	10	40	2.59	.038	2	71	.52	9	.23	14	2.52	.02	.10	2	1
R 119620	1	238	5	23	.1	27	17	222	4.84	6	5	ND	1	26	.6	2	8	67	1.42	.099	2	10	.52	5	.22	5	1.71	.13	.06	1	1
R 119621	1	170	5	26	.2	49	22	226	2.77	2	5	ND	1	15	.9	2	9	29	2.94	.057	2	42	.43	1	.17	7	2.14	.01	.01	1	1

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N/10,15

PROPERTY New Mac

DATE July 10

ROCK SAMPLE REPORT

PROJECT 123

MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
					ICP (30) + geochem							
117126 ✓	L97N/94+50E Fg, grey-green rhyo-dacite lapilli tuff.		grab									GM.
117127 ✓	L97N/95+00E. As above - Contains frac. coatings of chalcedony + manganese stain. Mg, diss pyrite		grab.									GM.
14051 ✓	L99N/119+50E Mg, green-black basaltic flow. Very dense + magnetic. cc. veining		grab									DR

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NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N/10+15

PROPERTY Newmac

DATE July 10, 1990

ROCK SAMPLE REPORT

PROJECT Newmac 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
R-114051 ✓	Located at L99N, 119+50E Talus Grab Sample - Many assorted fragments of propylitically alt'd volcs. Abundant calc fract. healings. Fragments are very fractured, poorly competent. Grey on weathered surface (some orangish frags.) Mottled green-grey on fresh surfaces. Most frags. appear to be andesitic and tuffaceous (ash size ejecta)											
R-117124 ✓	Andesitic tuff - ~~weathers~~ dark green weathers to dull grey fine grained. Epidote & calcite on fracture surfaces. No visible sulphides. Location L97N A 121 E											

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NORANDA EXPLORATION COMPANY, LIMITED

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PROJECT:

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G ☐ A ☐	G ☐ A ☐	G ☐ A ☐	G ☐ A ☐	G ☐ A ☐	G ☐ A ☐	G ☐ A ☐	SAMPLED BY
115401	Andesite Tuff – slightly altered, fine grained dk green, weathers dark grey –5% epidote, and carbonate traces of pyrite Location 99+50E 99+98N	0.5	grab									JJK
115402	Strongly altered andesite? – possible basalt, primary texture wiped out from alteration, consists of chl, epidote, $CaCO_3$ Slightly magnetic 100+93N 99+25E	–	grab									JJK
115403	Gossan – strongly altered andesites, strong limonite and hematite staining, 1-2% sulphides, mainly po py location 102+00N 99+25E	1-2	grab									JJK

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ROCK SAMPLE REPORT

PROJECT:

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
115404 ✓	Gossan - similar to 115403, probably same zone, 10-20° structure Location L101+12N @ 98+95E	1-2	grab									JJR.
115407 /	Calc-silicate altered volcanics, probably andesite, 5-10% pervasive carbonate, partly siliceous, up to 1% pyrite occurs as small isolated cubes 1-2mm. L100+65N @ 102+33E	1	grab									JJR
115408 /	Similar to 115407, 5% pervasive carbonate, minor silica flooding, small vesicles present indicate andesite or basalt. <1% py possible S/C. Location 101+15N 102+20E	<1%	grab									JJR.

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ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
115409	Strongly propylitically altered andesite tuffs possible basalt, 5-10% vesicles, the alteration fractured controlled and pervasive washes of epidote. Occurs as stringers and large isolated blebs <1% py. Location 101+00N 99+93E	<1%	grab									JJK
115410	Plagioclase Porphyry Diorite 25-35% plagioclase phenocrysts, 5-10% hbl needles in a dioritic rich matrix. tr-1% py, 2% epidote, occurs in stringers. L101+95N @ 100+10E	1%	grab									JJK
115411	Andesite tuff, lapilli tuffs prevasive carbonate alteration 2% py, limonitic fractured surfaces 101+48N 102+25E	2%	grab.									JJK

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NORANDA EXPLORATION COMPANY, LIMITED

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ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
?-115412 ✓	Rhyo - Dacite, very siliceous weathers light grey fs - dull greyish green. 1% pyrite L99+75N D 95+50E	1%	grab									JJR
?-115413 ✓	Gossan Zone - weathers a deep rusty red/orange siliceous - 1% py occurs as disseminations and fine stringers L100+95N ~~97+10~~ 97+10E	1%	grab									JJR
?-115414 ✓	Gossan Zone - small o/c Similiar to 115413 101+48N 9800E	1%	grab									JJR.
?-115415 ✓	Siliceous Gossan Zone. Similar to previous Zones. 100+90N 98+47E	1%	grab									JJR.

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PROJECT 123

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
115416 ✓	Siliceous Rhyolite - Dacite, WS - dull light grey, FS mottled pink/white, cherty appearance, contains minor fracture controlled limonite and hematite nearby a gossan zone? 2-3% py Location @ 100+20 N 94+00 E	2-3	grab									JJK
115417 ✓ ↓ 115422 ✓	Chip sample Gossan Zone. 115417-115422 taken West to East 1.5 metre chips 9 metre long O/C. Siliceous, Mn and limonitic staining, O/C very brittle 0.5-1.0% py 100+10N Δ 98+00E	1	chips ~~grab~~	1.5m.								JJK.
115423 ✓	Rhyo-Dacite Flows - Gossan - quartz and feldspar phenocrysts in pink to dull grey fine grained groundmass. 10-15% fractured controlled limonite and hematite. Siliceous. 0.5% py Location 97+40N Δ93+60 E	0.5	grab									JJK

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ROCK SAMPLE REPORT

MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
115424 ✓	Gossan - similar to 115423 Rhyo Dacite Flows 0.5 - 1.0% py, limonitic and Hematitic fractured surfaces Location 97+90N @ 93+55E	1	grab									JJK.
115425 ✓	Gossan - similiar to 115423 and 115424, however cherty appearance near contact with andesites Location 98+65N @ 93+00E	1	grab									JJK.

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NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N/10+15

PROPERTY New Mac

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ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
115451 ↓ 115456	Chip samples - 1.5 metre 9 metre long O/C Gossan Siliceous fractured 10° 90° hematite / limonite on fractured surface 1-2% sulphides traces of cpy possible Bornite L99+10N @ 99+80E → 99+89E sample taken west to east.	1-2	chip	1.5								
115457 ↓ 115465	Chip samples - 1.5 metres 13.5 metre O/C, same as 115451-115457 L99+00N @ 99+95 → 100+08E	1-2	chips	1.5								

G - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

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ROCK SAMPLE REPORT

MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
115470 ✓	Chip sample Series	3-4	chips	1.5								JJR
↓ ✓	1.5 metres, 9 metre long O/C											
115475 ✓	Gossan L101+05N											
✓	Δ 96+80 → 96+89E											
	Deep rusty orange/red,											
	Siliceous, up to 3-4% pyrite											
	slightly magnetic, in places											
	is quite brittle											
	tr - 0.5% cpy.											

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NORANDA EXPLORATION COMPANY, LIMITED

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PROPERTY NEWMAC

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ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ ICP (30) + GEOCHEM (Au)	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
115626	104+50N / 104+50E											
✓	ALTERED ANDESITE TUFF	~1%	GRAB									K. PEARSON
	W.S. RUST - RED BROWN, DUSTY (CHALKY)											
	TARNISHED SULFIDES. F.S. LIGHT GREY-											
	GREEN. APPEARANCE SILICIFIED SOMEWHAT											
	FRACTURED SOMEWHAT PERVASIVE; HOSTING											
	SULFIDES OF PY OR HEMATITICALLY											
	STAINED. FINE GRAINED											
115627	104+75N / 98+00E											
? ✓	ALTERED ANDESITE. TUFF.	1-2%	CHIP	1.5M								K. PEARSON
	W.S. RUST. PERVASIVE HEMATITIC											
	STAINING - SPECIFICALLY ALONG											
	FRACTURE SURFACES. F.S. L. GREY											
	GREEN, HEAVILY SILICIFIED. MOTTLED											
	APPEARANCE. DISSEMINATED PO, PY,											
	THROUGHOUT, MINOR BORNITE NOTED											
	SOMEWHAT CHLORITIC.											
	V. FINE GRAINED.											
115628	103+15N / 97+25E											
✓	DIORITE	1-2%	GRAB									K. PEARSON
	MED GRAINED W.S. LIGHT GREY.											

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NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N/10,15

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ROCK SAMPLE REPORT

PROJECT 123. (2)

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
115628 CONT	TO RUST. PLAG WEATHERING											
	CHALKY, HORNBLENDES WEATHERING											
	OUT. F.S. MED GREY - MED											
	GRAINED TEXTURE, PLAG - HORNBLD											
	SUB-EUHEDRAL, SILICIFIED											
	SOMEWHAT. DISSEMINATED											
	SULFIDES (PY %) VERY FINE											
	OCCASSIONAL OCCURRENCE OF											
	MALACHITE.											
R115629	103+05N / 97+50E											
✓	ALTERED ANDESITE TUFF.	1-2%	GRAB									K. PEARSON
	W.S. RUST - LIGHT CREAMY											
	WHITE (GREEN)											
	F.S. MED - DK GREEN/GREY											
	SAME AS R115627											
R119451	103+05N / 96+95E	1-2%	HORIZONTAL CHIP	1M.								
✓	ALTERED ANDESITE TUFF											
	W.S. RUST - PY IS TARNISHED.											
	F.S. MED GREY/LIGHT GREEN											
	FINE GRAINED HEAVILY SILICIFIED	1-2%										
	PY - 1-2%, REMNANT FELDSPAR											

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NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N/10,15 (3)

PROPERTY NEWMAC

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ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ ICP (30 ELEMENT) + GEOCHEM AU	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
119451 CONT	PLAG + HORNBLENDE PRESENT											
	ANHEDRAL CRYSTAL SHAPE.											
	FRACTURE SURFACE HEMATITE											
	STAINED.											
119452	103+15N/96+90E.		GRAB									
✓	ALTERED ANDESITE TUFF	~2%										K. POAB
	DESCRIPTION AS 119451 - TAKEN											
	NORTH ACROSS CREEK FROM											
	R119451. FINE DISSEMINATIONS											
	OF SULFIDES. (PY) PRIMARILY ALONG											
	FRACTURES (AS FRACTURE FILLING)											
119453	109+25N/92+75E											
✓	RHYODACITE (CALCSILICATE ALTERED)	≤1%	GRAB									
	W.S. WHITE - BROWNISH RUST F.S. LIGHT											
	GREY - VF. FINE GRAINED - FADING FELDSPARS											
	SOME OCCASSONAL QTZ EYES - ~~THE~~											
	HEAVILY CALCITIC - APPEARS PERVASIVE											
	THROUGHOUT ROCK PRIMARILY ALONG											
	FRACTURES. FINE DISSEMINATIONS											
	OF SULFIDES (PY). HEMATITIC STAINING LOCALLY	≤1.										

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ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
					ICP (30) + Geochem Au							
119601	L106N/104E Pervasively altered (c.c + sil+) andes. tuff +/- minor biotite + trace hematite.		grab									DGG.
119602	105+75N/102+63E Fg, andes. tuff/flow? Calc-silicate altered with fg diss py (2-3%)		grab									"
119603	106+25N/104+43E Highly gossaned float/subcrop. Extremely siliceous, hematitic. No original texture - sulfides weathered out.		grab									"
119604	105+95N/99+55E Pyritic (2-3%, diss) Porphyritic plag/hbde diorite.		grab									"
119605	105+25N/98+80E. Med → coarse grained quartz diorite c̄ malachite stain, minor py.		grab.									"
119606	104+68N/98+43E Gossan zone. Fg, pyritic rusty, siliceously alt. and. tuff. 5-10% py 1% cpy		grab.									"

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ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G A ICP(30) + Geochem Au	G A	G A	G A	G A	G A	G A	SAMPLED BY
119607 ✓	104+90N/98+50E Gossan Zone. V-fg, silic., pyritic, rusty and. tf? 5-10% diss py		grab									DGG.
119608 ✓	104+95N/98+30E Fg, chloritic and. tf. with 1-3% fg, diss. + frac. coated py.		grab									"
119609 ✓	104+83N/98+20E (eastside) Fg, silic. and tf. Chloritic near outer edges of o.c. Increase in silica + bleaching toward center with hornfels 'spotting'. Fg, diss py (+/- po) 2-4% + as frac. coating + blebs.		chip	1.5m								"
119610 ✓	As above (middle of o.c.)		chip	1.5m								"
119611 ✓	" " (west end of o.c.)		"	2.0m								"
119612	106+68N/99+30E Clay altered cc/sil veined quartz-feld porphyry - pyritic - malachite stain on fractures		grab.									"
119613	106+82N/99+27E Fg, sil. andes tf. Rusty, with f-mg py on frac. + as diss. cc/qtz/epid veinlets		grab									"

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NORANDA EXPLORATION COMPANY, LIMITED

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ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ ICP(30) + Geochem Au	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
119614	106+67N/99+25E Pyritic qtz veined, rusty QFP.		grab									D.G.G.
119615	106+65N/97+23E GOSSAN. Fg, grey-green, v. siliceous and tf. with qtz +/- cc veins + epidote. Fracture coated + diss pyrite 5-8%		grab									"
119616	106+65N/99+18E Siliceously altered diorite with qtz/cc veins. Diss + frac. coated pyrite (5-10%) Minor malachite.		grab									"
119617	105+30N/98+38E Siliceous, rusty, fg and tf. with 10-15% pyrite.		"									"
119618	105+25N/98+37E Siliceously altered hblde/plag porph diorite. 10-15% frac coated + diss py/po. Minor malachite.		"									"
119619 ✓	108+30N/99+30E Extremely siliceous, well broken, py rusty and tf. → GOSSAN.		"									"

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N/10,15

PROPERTY NewMac

DATE July 12/90

ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
					ICP (30 element) + Geochem Au							
119620 ✓	107+50N/99+52E Ext. siliceously altered, rusty, pyritic and. tf, dio?, rhyodac? 3-5% diss py.		grab									DGG
119621 ✓	108+25N/99+50E Silic. alt., rusty, pyritic and. tf. 3-5% diss pyrite.		"									"

G = GEOCHEM A = ASSAY

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

GEOCHEMICAL ANALYSIS CERTIFICATE

NewMac (JR)

Noranda Exploration Co. Ltd. PROJECT 9008-034 123 File # 90-3350 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
59776	1	40	2	27	.1	14	12	366	2.20	2	12	ND	1	73	.2	2	4	65	6.48	.025	2	34	.85	4	.19	2	1.57	.01	.01	1	8
59777	1	63	4	123	.2	12	16	610	5.08	5	5	ND	1	11	.8	3	2	126	1.92	.040	2	21	1.65	6	.23	2	2.40	.02	.03	1	3
59778	1	25	28	78	.1	10	13	476	2.29	8	7	ND	1	144	.5	2	2	78	3.87	.042	2	10	.51	5	.23	4	1.41	.01	.01	1	2
59779	1	2885	726	56	9.6	11	12	309	3.59	8	5	ND	1	105	2.3	2	6	131	1.43	.032	2	8	.42	2	.24	3	1.07	.03	.01	1	37
59780	1	381	8	48	.1	7	15	892	5.24	14	5	ND	1	55	.6	2	2	166	2.31	.078	2	12	1.21	26	.17	7	2.24	.02	.01	1	3
59781	1	62	2	3	.1	19	47	320	3.09	29	5	ND	1	100	.2	2	2	72	1.65	.070	2	16	.57	6	.43	4	1.02	.05	.01	1	6
59782	1	39	3	12	.1	29	13	321	3.57	12	5	ND	1	61	.2	2	2	69	2.19	.045	2	53	1.01	8	.30	3	1.28	.04	.01	1	1
59783	1	47	4	35	.2	11	26	402	6.06	2	5	ND	1	5	.9	2	2	143	.19	.029	2	15	1.41	18	.10	2	1.65	.04	.07	1	9
59784	7	123	3	44	.3	10	28	249	7.10	5	5	ND	1	4	.7	2	2	39	.12	.019	2	9	.62	31	.14	2	1.16	.01	.18	1	4
59785	1	70	4	38	.1	7	14	482	6.08	15	5	ND	1	15	.4	2	2	181	.90	.041	2	18	1.46	3	.19	5	1.98	.04	.03	1	6
59786	1	211	6	80	.5	15	30	627	8.48	6	5	ND	1	28	.7	7	2	222	.86	.027	2	25	2.52	31	.13	4	3.59	.19	.59	1	29
114052	1	40	2	54	.1	18	18	639	4.03	7	5	ND	1	10	.7	4	2	80	.55	.027	2	36	1.82	17	.13	3	1.87	.05	.03	1	4
114053	3	8	3	32	.2	5	3	898	2.61	4	5	ND	1	3	.6	2	2	17	.11	.027	4	10	1.31	19	.01	2	1.39	.03	.06	1	8
114054	2	7	4	33	.1	3	3	997	2.23	3	5	ND	1	4	.2	2	2	14	.24	.027	5	9	1.22	23	.01	2	1.33	.03	.07	1	3
114055	3	11	5	39	.1	5	3	1177	2.68	9	5	ND	1	4	.2	2	3	15	.15	.026	4	9	1.42	30	.01	5	1.54	.03	.08	1	7
114056	2	30	9	49	.1	13	8	1315	3.06	6	5	ND	1	8	.6	3	2	28	.56	.033	4	27	1.56	33	.01	2	1.71	.03	.07	1	7
114057	2	11	3	33	.2	6	3	965	2.44	8	5	ND	1	3	.3	2	2	13	.15	.028	4	8	1.15	35	.01	2	1.32	.03	.07	1	6
114058	2	20	6	33	.2	2	3	948	2.55	6	5	ND	1	5	.7	2	2	13	.08	.027	4	8	1.03	122	.01	3	1.20	.03	.09	1	4
114059	4	18	5	22	.1	5	3	947	2.35	9	5	ND	1	3	.3	2	2	11	.16	.027	4	19	.96	66	.01	2	1.15	.02	.08	1	6
114060	3	7	4	26	.1	4	2	654	2.35	4	5	ND	1	5	.3	2	2	11	.10	.028	5	9	.99	26	.01	2	1.17	.04	.08	1	3
114061	4	9	4	32	.1	5	3	1013	2.31	9	5	ND	1	2	.2	2	2	13	.09	.027	4	21	1.17	25	.01	3	1.28	.03	.07	1	5
114062	3	9	5	26	.3	5	2	1051	2.46	7	5	ND	1	8	.2	2	2	12	.32	.029	4	8	1.07	35	.01	3	1.23	.03	.08	1	8
114063	4	9	12	19	.1	3	3	880	2.55	9	5	ND	1	3	.6	2	2	13	.13	.028	3	23	1.03	33	.01	3	1.20	.03	.10	1	7
114064	3	13	14	90	.3	7	3	793	4.30	21	5	ND	1	5	.5	2	2	11	.04	.068	4	8	1.37	111	.01	3	1.56	.02	.09	1	7
114065	1	61	7	67	.7	10	15	2669	5.45	13	5	ND	1	337	.6	6	2	38	20.21	.009	2	26	2.90	10	.01	2	2.02	.01	.01	1	5
114066	2	8	3	18	.1	6	2	168	1.89	7	9	ND	1	5	.7	2	2	4	.11	.012	2	5	.33	37	.01	3	.88	.01	.07	1	8
114067	3	11	9	34	.1	4	3	397	1.35	2	9	ND	1	32	.4	2	3	5	3.37	.016	4	21	.25	408	.01	2	.26	.03	.08	1	1
114069	1	5	2	26	.1	4	4	461	1.62	2	5	ND	1	30	.4	2	3	5	1.55	.027	5	6	.45	127	.01	4	.32	.02	.14	1	1
116151	1	134	2	53	.4	30	22	776	4.56	5	5	ND	1	11	.8	8	2	105	.89	.020	2	70	2.82	16	.15	6	2.72	.04	.08	1	4
116152	1	185	4	86	.4	13	26	1142	8.30	21	5	ND	1	18	.4	6	2	208	.63	.040	2	10	3.12	32	.20	5	3.59	.07	.35	1	4
116153	1	55	8	64	.4	55	29	2338	6.01	8	5	ND	1	51	.7	2	2	132	4.69	.035	3	76	4.64	116	.01	4	3.66	.02	.06	1	2
116154	9	5	2	34	.4	6	2	844	3.16	8	5	ND	1	2	.5	2	2	17	.07	.032	6	10	1.29	28	.01	5	1.48	.01	.11	1	12
116155	12	8	2	37	.5	10	3	885	5.05	21	5	ND	1	3	.7	3	2	25	.14	.033	4	43	1.45	35	.01	3	1.71	.01	.11	1	11
116156	6	18	17	33	.9	12	4	854	9.56	49	5	ND	1	4	.8	3	2	23	.15	.029	3	21	.87	37	.01	3	1.39	.01	.07	1	58
116157	2	6	2	31	.3	5	2	781	2.80	8	5	ND	1	3	.2	2	2	11	.12	.032	4	18	1.05	47	.01	2	1.34	.01	.09	1	8
116158	2	25	7	43	.2	13	9	1155	2.93	12	5	ND	1	17	.5	2	2	20	.44	.035	4	16	1.07	56	.01	2	2.02	.01	.10	1	12
STANDARD C/AU-R	18	59	41	131	7.1	72	31	1051	3.97	40	17	7	38	53	18.4	15	19	55	.51	.097	38	61	.89	181	.07	37	1.90	.06	.13	12	540

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: Rock AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 9 1990 DATE REPORT MAILED: Aug 16/90. 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
116159	1	14	2	64	.1	3	10	1568	5.18	4	5	ND	1	24	.2	2	2	67	2.43	.031	2	6	1.79	35	.01	2	2.72	.05	.07	2	3
116160	1	13	2	62	.1	10	11	1641	4.98	5	5	ND	1	46	.8	2	2	61	3.50	.030	2	13	2.20	58	.01	2	2.98	.03	.08	1	3
116161	4	14	11	36	.2	6	3	781	4.50	12	5	ND	1	6	.2	3	2	23	.29	.051	4	4	1.15	24	.01	3	1.41	.04	.08	1	4
116162	2	10	7	49	.2	2	6	1223	4.04	13	5	ND	1	5	.2	3	2	23	.26	.044	4	3	1.64	41	.01	4	1.79	.03	.08	1	5
116163	5	7	4	48	.3	4	6	1224	3.71	16	5	ND	1	3	.2	2	2	23	.09	.041	4	4	1.84	41	.01	2	1.97	.02	.12	1	8
116164	1	23	4	69	.2	20	22	2705	4.94	17	5	ND	1	32	.9	2	2	119	2.95	.033	3	42	4.14	101	.02	2	3.28	.02	.05	1	6
116165	1	20	2	61	.1	1	11	1361	5.02	6	5	ND	1	30	.5	4	2	73	3.26	.031	2	5	1.98	31	.01	2	2.76	.04	.06	2	1
116166	1	34	2	62	.1	18	15	1453	4.40	13	5	ND	1	7	.6	2	2	66	.39	.033	3	23	2.54	60	.01	2	2.93	.02	.09	1	5
116167	3	7	3	49	.1	8	6	1114	7.09	34	5	ND	1	4	.6	2	2	75	.15	.022	2	60	2.25	32	.01	2	2.28	.02	.09	1	3
116168	3	7	3	51	.1	7	6	1236	5.49	30	5	ND	1	4	.3	2	2	62	.20	.027	3	51	2.27	25	.01	2	2.16	.02	.07	1	4
116169	4	9	5	44	.1	5	4	1099	2.76	12	5	ND	1	3	.3	2	4	13	.10	.028	4	15	1.51	45	.01	2	1.57	.02	.11	2	2
116170	6	23	2	59	.1	10	6	972	3.80	13	5	ND	1	2	.3	3	2	29	.03	.035	4	15	1.73	69	.01	2	2.01	.02	.10	1	8
116171	4	50	4	73	.1	24	13	1406	3.99	12	5	ND	1	4	.2	2	2	44	.16	.035	4	52	2.07	33	.01	2	2.35	.03	.07	1	6
116172	3	23	7	42	.1	9	5	1159	4.21	17	5	ND	1	2	.2	2	2	39	.03	.029	3	20	1.74	36	.01	2	1.94	.02	.08	2	7
116173	3	9	2	44	.1	3	5	1103	3.28	10	5	ND	1	2	.2	2	3	22	.04	.026	3	20	1.53	47	.01	2	1.68	.03	.10	1	5
116174	3	8	4	33	.1	3	4	1354	2.26	5	5	ND	1	7	.2	2	2	14	.65	.022	4	2	1.19	45	.01	2	1.40	.02	.09	1	4
116175	3	22	3	38	.1	8	6	1189	2.52	10	5	ND	1	3	.2	2	2	19	.11	.027	4	22	1.33	39	.01	2	1.49	.03	.10	2	4
STANDARD C/AU-R	19	62	40	132	7.2	71	32	1053	3.97	42	21	8	38	52	18.4	15	19	57	.52	.095	39	60	.89	187	.08	35	1.89	.06	.13	12	510

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92 N/10,15

PROPERTY Newmac

DATE Aug. 8/90

ROCK SAMPLE REPORT

PROJECT 123

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
R59776	Andesitic Flows: slightly porphyritic w/ 5% med gr. feld. laths, intensely propylitically alt'd w/ abundant calc + ep on fracts and veinlets with halos penetrating up to several cm deep into matrix. Many veinlets are vuggy. Tr mal on fract's. Very fract'd + sheared.											D. Rempel
R59777	Dark grey andesite w/ < 5% plag. phenocrysts. Abundant stockwork calc + qtz veinlets < 1cm thick. Very sheared and fract'd. Ep common on fracts and in alt'n halos extending several cm into rock from veinlets.											D. Rempel
R59778	Andesite: intensely propylitically alt'd, abundant qtz + calc stockwork veinlets, veinlets often vuggy w/ minor limonitic staining, intensely sheared + fract'd, tr mal on fract's, tr py + bØ in veinlets. Ep pervasive and in fract's.											D. Rempel

G – GEOCHEM A – ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92 N/10, 15

PROPERTY Newmac

DATE Aug. 8/90

ROCK SAMPLE REPORT

PROJECT: 123

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
R59779	[redacted] Dark grey andesitic ash tuff, highly fract'd + sheared, abundant calc+qtz veinlets < 1cm thick w/ ep alt'n halos penetrating several cm into andesite. No vis. sulph. Veinlets both parallel to and crosscutting dominant shearing fabric L106+70N @ 118+00E											D. Rempel
R59780	[redacted] Dark-med grey andesite, abundant qtz+ calc veinlets with ep alt'n halos common, penetrating several cm into rock, frequent limonitic staining w/ minor boxwork developed, veinlets often vuggy, rock highly fract'd											D. Rempe
R59781	[redacted] Dark grey andesite, moder fract'd, abundant qtz + calc + ep veinlets, ep often in halos ~~[illegible]~~ penetrating several cm into host, frequent limonitic staining on weathered surfaces, no vis. sulph.											D. Rempe

G - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92 N/10,15

PROPERTY Newmac

DATE Aug. 8/90

ROCK SAMPLE REPORT

PROJECT 123

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
Q 59782	Med grey andesitic ash tuff, abundant qtz+calc veinlets in stockwork, highly sheared + fract'd, frequent limonitic staining on weathered surfaces, ep common as alt'n halos several cm from veinlets and weakly pervasive, no vis. sulph											D. Rempe

G – GEOCHEM A – ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY: Newmac

N.T.S. 92N/10,15
DATE Aug. 8/90
PROJECT 123

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
R114052	L109/108+50E : Talus Grab Andesitic Tuffs (Ash) + Flows : contain ~5% feldsp + 5% hrnbl fine-med. gr. phenoxts, dark green-grey fresh, med grey weathered, no vis. sulph., minor chl + ep on fract. surfaces, weakly fractured.			Grab								D. Remp
R59783	2.0 Km SE of Butler Lk - Gossan Zone above tarn : Andesitic Flow - contains ~10% med gr. euhedral feldsp. phenoxts in dark-med grey matrix (fresh), intensely silicif'd, 5% Py fine-coarse gr. dissem + in fracts, locally up to 10%. Intense limonitic staining on weathered surfaces, highly fract'd	5-10		Grab								D. Rempe
R59784	2.0 Km SE of Butler Lk (10m above 59783 to N): Intensely silicif'd andesite A/A, contains 10-15% Py fine-med gr dissem + on fracts, Intense limonitic staining on weathered surfaces, highly fract'd + sheared	10-15		Grab								K. Pears [illegible]

G — GEOCHEM A — ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92 N/10,15

PROPERTY Newmac

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ROCK SAMPLE REPORT

PROJECT: 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
R59785	2.1 Km SE of Butler Lk: Andesitic Flow: slightly porphyritic, highly sheared + intensely silicif'd, 5-10% med. gr. euhedral plag. phenocrysts, 5-10% fine - v. fine gr. py dissem + on fracts., intense limonitic alt'n on weathered surfaces + fracts. Sample taken near contact w/ granodiorite intrusive	5-10										D. Rempel
R59786	2.0 Km SE of Butler Lk: (100 m to W of 59785) - dark grey andesitic flow, <5% med. gr. euhedral plag. laths, highly silicif'd, 10% v. fine-fine gr. py dissem + along fracts., intense limonitic staining on weathered surfaces + fract's, highly sheared	10										D. Rempel

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ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
R114067	Taken 1.4 km SE of Butler Lk. Rhyodacitic Flow - highly silicif'd, very fractured, slightly porphyritic : 5% med.-fine gr. qtz + feldsp phenocrysts, moderate limonitic staining on fractures, many pieces are very brecciated. No visible sulph. Light tan-grey weathered, Light bluish grey fresh			GRAB								D. Rempe
R114069	Taken 1.4 km SE of Butler Lk, ~100 m downslope to W of 114067 Rhyodacitic flow - slightly porphyritic : 5-10% fine gr. qtz eyes, slight bxx, intensely silicif'd, moderate limonitic staining on weathered surfaces, no vis. sulph.			GRAB								K. Pearson
R116151	10m from L119N/106E : Basaltic flow - dark grey fresh, med grey weathered, minor silicic veinlets, minor limonite on fracts. No vis. sulph., weakly fractured			1.5m								K. Pearson
R116152	Continuation of above chip: Basaltic flow A/A very competent, no vis. sulph., very minor limonitic staining			1.5m								K. Pearson

NORANDA EXPLORATION COMPANY, LIMITED

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ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
116153	1 km ~~N~~SE of Butler Lake			1.5 m								K. Pearson
	1.5 m chip sample (wall rock of faulted											
	gossan) first in series of chips across gossan											
	basaltic flow - slightly vesicular, dark grey											
	fresh, med. grey weathered, moder. sheared w/											
	calc + ep on sheared surfaces											
	No vis. sulph.											
116154-	1.5 m chip samples across gossanous zone			1.5 m each								K. Pearson
116158	116154: ~~contains ~0.3 m fault gouge~~											
	~~[illegible]~~ highly sheared, andesitic flow -											
	contains ~ 5-10% feldsp. phenoxts, med-light											
	green fresh, abundant limonite + calc on											
	fracts and weathered surfaces, tr py (v.											
	fine gr.) in fracts. minor ep on sheared											
	surfaces											
	116155: ~~[illegible]~~ sheared andesites A/A											
	moder. sheared, no vis. sulph., abundant											
	limonitic staining + calc in fracts.											
	116156: moder. sheared andesite A/A,											
	intense limonitic staining + minor boxwork											
	in Fe-Oxides, 1% v. fine gr. py dissem											
	and in fracts.											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92 N/10,15

PROPERTY Newmac

DATE Aug. 8/90

ROCK SAMPLE REPORT

PROJECT 123

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
R116161	Gossan Zone 1km NE of Butler Lk. Continuation of chip series. Moder sheared andesites. Contains a 0.5m fault gouge zone - extreme shearing. Abundant limonite on weathered surfaces, 1% fine - v.fine gr. py on fracts + dissem Andesite has ~5% fine gr. feldsp. phenoxts. Dark grey fresh, light grey weathered. Minor calc in fracts.	1		1.5m								D. Rempel
R116162	Moder. sheared andesite A/A. Frequent limonitic staining on weathered surfaces. No vis. sulph. Slightly more competent than 116161			1.5m								D. Rempel
R116163	Highly sheared andesite A/A. Abundant - Intense limonite coatings on weathered surfaces, Frequent boxwork developed in Fe-Oxides. Tr v. fine gr. py in fracts + dissem			1.5m								D. Rempel
R116164	Basaltic flow - slightly vesicular, slightly sheared, slight silic. alt'd., abundant ~~Fine~~ limonite + calc on fracts., ~~~~ Tr v. fine gr py dissem and growths in vesicles. Dark grey fresh, light grey weathered. Last chip in series			1.5m								D. Rempel

G — GEOCHEM A — ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N/10-15

PROPERTY NEWMAG

DATE Aug 8/90

ROCK SAMPLE REPORT

PROJECT 123.

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
	NOTE: SAMPLES 116165 - 116175, 114053 - 114063 FROM SAME CHIP SAMPLE LINE.											
	BEGIN CHIP SAMPLE LINE.											
116165	ANDESITIC (PORPHYRITIC) FLOW. LOCATION 1.0KM S.E BUTLER LAKE, MED GREEN/GREY - CALC-SILICATE ALTERED WALL ROCK TO GOSSAN ZONE - GENERALLY FINE GRAINED WITH PHENOCRYSTS (≤3mm) PLAGIOCLASE. NO VISIBLE SULFIDES MINOR SILICIFICATION.		CHIP HORZ.	1.5m								K. PEARSON
116166	ALTERED VOLCANIC (ANDESITIC FLOW) LOCATION: 1.0KM S.E. BUTLER LAKE. GENERALLY FINE GRAINED, SOME CALCITIC ALTERATION / MINOR MOD. SILICIFICATION, F.S. GREY/GREEN - W.S. MED BROWN TO RUST. SULFIDES OF PY DISSEMINATED FINE (<0.5 MM) IN SIZE. REMNANT PHENOCRYSTS OF PLAGIOCLASE, <1mm	≤1%	CHIP HORZ	1.5m								D. REMPEL ~~K. PEARSON~~
116167	ALTERED VOLCANIC (ANDESITE FLOW?) LOCATION 1.5 KM S.E. BUTLER LAKE. GOSSANOUS IN CHARACTER. W.S. RUST - DARK BROWN. F.S. SAME	<1%	CHIP HORZ	1.5m								K. PEARSON

G — GEOCHEM A — ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92 N/10/15

PROPERTY NEWMAC

DATE AUG 8/90

ROCK SAMPLE REPORT

PROJECT: 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
116167 CONT.	CRUMBLY - APPEARS HEAVILY ATTACKED BY CIRCULATING FLUIDS. MOST SULFIDES (PY) WEATHERED OUT MANGANESE FRACTURE COATING IS COMMON APPEARS SOMEWHAT BRECCIATED; CLAYEY (SOFT) WHITE MATRIX LOCALLY BETWEEN BRECCIA FRAGMENTS. - VERY MINOR REMNANT SILICIFICATION.											
R116168	ALTERED VOLCANIC LOCATION AS ABOVE. GENERALLY SAME DESCRIPTION AS R116167. LOCATED WITHIN GOSSAN ZONE.	(PY) <1%	CHIP HORZ	1.5m.								D. REMPEL ~~K. Pearson~~
R116169	ALTERED VOLCANIC - LOCATION AS ABOVE DESCRIPTION AS R116167 - LOCATION WITHIN GOSSAN ZONE.	(PY) <1%	CHIP HORIZ									K. PEARSON
R116170	ALTERED VOLCANIC - (ANDESITIC FLOW,) 1.5KM S.E BUTLER LK W.S. RUST - DK. BROWN FR. S. RUST - LIGHT GREY GREEN. DISPLAYS REMNANT PHENOS OF PLAGIOCLASE WITHIN FINER GRAINED MATRIX SILICIFICATION EVIDENT. NO CALCITE ALTERATION PRESENT											D. REMPEL

G – GEOCHEM A – ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. ____________

PROPERTY ____________ DATE ____________

ROCK SAMPLE REPORT

PROJECT: ____________

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
R116170 CONT	SULFIDES EVIDENT (PY ONLY) FINELY DISSEMINATED THROUGHOUT, MINOR MANGANESE STAINING OF FRACT SURFACES. SAMPLE OUT OF GOSSAN ZONE	~1%	CHIP HOR	1.5m								
R116171	ALTERED VOLCANIC (ANDESITE FLOW?). LOCATION: 1.5KM N.E BUTLER LK. DESCRIPTION AS R116170 – SAMPLE OUT OF GOSSAN ZONE.	~1%	CHIP HORIZON.	1.5m								K. PEARSON
R116172	ALTERED VOLCANIC (ANDESITE FLOW) LOCATION: 1.5 KM N.E. BUTLER LK DESCRIPTION AS R116170. SAMPLE OUT OF GOSSAN ZONE.	≤1%	CHIP HOR.	1.5m								D. REMPEL
R116173	ALTERED VOLCANIC. LOCATION 1.5KM N.E BUTLER LK. NOTE INCREASE IN SILICIFICATION CONTENT – SULFIDES OF PY UP TO 1%. GENERALLY SAME DESCRIPTION AS R116170 – WITHIN GOSSAN ZONE	1%	CHIP HOR.	1.5m								K. PEARSON
R116174	ALTERED VOLCANIC. LOCATION 1.5KM N.E BUTLER LK. GENERALLY FINE GRAINED, SOME WHAT SILICIFIED, CALCITE OCCURS ALONG	≤1%	CHIP HORIZ									D. REMPEL

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N/10/15

PROPERTY NEWMAC

DATE AUG 08, 1990

ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
116174 CONT	FRACTURE SURFACES AND SOMEWHAT PERVASIVELY (~2%) SULFIDE CONTENT OF PY (≤1%) OCCURS AS FINE DISSEMINATIONS LIGHT GREENISH/GREY IN COLOR (F.S. DARK BROWN / RUST TO GREENISH GREY ON WEATHERED SURFACE. MN STAINING OCCURS LOCALLY ON FRACT. SURF. - WITHIN GOSSAN ZONE.											
116175	ALTERED VOLCANIC. LOCATION 1.5KM S.E BUTLER LK. DESCRIPTION AS R116174	≤1%	CHIP HOR	1.5m								K. PEARSON
14053	ALTERED VOLCANIC (ANDESITIC FLOW) - LOCATION 1.5Km S.E. BUTLER LK. FRESH SURFACE LIGHT GREY/GREEN - W.S. DARK BROWN - RUST (OVERALL COLOR MED BROWN). FINE GRAINED - HEAVILY SILICIFIED (REMNANT) PLAG./HORNBLENDE PHENOS ≤~1mm IN SIZE WITHIN MATRIX - LOCAL CALCITE (VEINING) PRESENT SULFIDES OF PY ≤1% PRESENT - FINELY DISSEMINATED THROUGHOUT SAMPLE WITHIN GOSSAN ZONE.	≤1%	CHIP HOR	1.5m								D. REMPEL

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NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N 10/15

PROPERTY NEWMAC

DATE AUG 08/90

ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
114054	ALTERED VOLCANIC - 1.5 Km S.E OF BUTLER LAKE. DESCRIPTION AS R114053 - WITHIN GOSSON ZONE	≤1%	CHIP HOR	1.5m								K. PEARSON
114055	ALTERED VOLCANIC 1.5 Km S.E OF BUTLER LK. DESCRIPTION AS R114053 WITHIN GOSSAN ZONE	≤1%	CHIP HOR	1.5M								D. REMPEL
114056	ALTERED VOLCANIC 1.5Km S.E. OF BUTLER LK. DESCRIPTION A R114053 WITHIN GOSSAN ZONE	≤1%	CHIP HOR	1.5m								K. PEARSON.
114057	ALTERERED VOLCANIC 1.5Km S.E OF BUTLER LK. INCREASE IN HEMATITIC STAINING (ON FRACTURE SURFACES). DESCRIPTION AS R114053 - WITHIN GOSSAN ZONE	≤1%	CHIP HOR	1.5M								D. REMPEL
114058	ALTERED VOLCANIC 1.5Km S.E BUTLER LAKE. SLIGHT DECREASE IN HEMATITIC STAINING - SAME DESCRIPTION AS R114053	≤1%	CHIP HOR	1.5m								K. PEARSON.
114059	ALTERED VOLCANIC 1.5 Km S.E BUTLER LAKE. SAME AS R114053	≤1%	CHIP HOR	1.5m								D. REMPEL.

G - GEOCHEM A - ASSAY

NORANDA EXPLORATI... COMPANY, LIMITED

N.T.S. 92 N/10/15

PROPERTY Newmac

DATE Aug 05/90

ROCK SAMPLE REPORT

PROJECT 123.

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
114060	ALTERED VOLCANIC (ANDESITE FLOW) 1.5 Km S.E BUTLER LAKE F.S LIGHT GREEN/GREY/ W.S. RUST - LIGHT TO MED BROWN. PHENOS OF PLAG ≤1mm IN A FINE GRAINED MATRIX. SAMPLE IS SHEARED; FRACTURE COATING OF HEMATITE STAINING, ~~ox~~ VERY FINE DISSEM. OF PY THROUGHOUT SAMPLE ≤1mm HEAVY SILICIFICATION, NO INDICATION OF CALCITIC ALTERATION. CHALKY (CLAYEY) ~~matrix~~ MATRIAL OCCURS WITHIN MATRIX; WITHIN ~~shear~~ GOSSAN ZONE.	1 <2%	CHIP HOR	1.5m								K. PEARSON
2114061	ALTERED VOLCANIC (ANDESITE FLOW) 1.5 KM S.E BUTLER LK GENERALLY DESCRIPTION AS ABOVE. LOCAL CALCITE AS VEINING 1.5 KM N.E BUTLER LK. PY AS SULFIDES. FINELY DISSEMINATED REMNANT HORNBLENDES - ≤1mm. WITHIN GOSSAN ZONE	≤1%	CHIP HOR	1.5m								D. RUMPER.
2114062	ALTERED VOLCANICS (ANDESITE FLOW) 1.5 Km S.E BUTLER LK. DESCRIPTION AS R114060.	≤1% PY	CHIP HOR	1.5m								K. PEARSON

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92 N/10/15

PROPERTY NEWMAC

DATE AUG 08/90

ROCK SAMPLE REPORT

PROJECT 123.

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
R114063	ALTERED VOLCANIC (ANDESITE FLOW)	1% Py	CHIP HORZ	1.5M								D. RENPEL
	1.5 KM. S.E. BUTLER LAKE											
	DESCRIPTION AS R114063											
	END OF CHIP SAMPLE LINE											

G = GEOCHEM A = ASSAY

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Newmac (GG)

Noranda Exploration Co. Ltd. PROJECT 9008-042 123 File # 90-3430

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
R 114876	1	8	4	35	.1	7	4	375	1.64	15	5	ND	1	10	.2	2	3	13	.47	.026	3	6	.52	12	.06	2	.85	.04	.08	1	3
R 114877	1	79	9	61	.2	50	21	451	4.72	4	5	ND	1	25	.9	2	3	140	1.15	.068	4	22	2.09	92	.31	4	2.57	.13	.07	1	4
R 114878	1	71	6	50	.2	37	18	406	3.58	6	5	ND	1	45	.7	2	2	84	1.34	.056	2	14	1.60	35	.24	2	2.44	.16	.03	1	7
R 115466	3	32	2	45	.1	15	9	467	3.09	4	5	ND	1	13	.2	2	2	43	.41	.042	3	10	.86	22	.11	2	1.30	.07	.07	1	3
R 115467	1	64	4	6	.2	60	12	292	3.18	30	5	ND	1	39	.5	2	4	35	1.55	.032	2	128	.21	4	.35	6	1.20	.01	.01	1	3
R 115468	27	141	7	12	.3	26	15	327	3.88	3	7	ND	1	27	.5	2	2	67	1.83	.114	2	16	.43	8	.12	8	1.64	.16	.05	2	4
R 117129	1	51	2	27	.1	81	21	346	2.22	2	5	ND	1	32	.5	2	2	60	1.36	.070	2	117	1.87	8	.25	5	1.89	.07	.02	1	2
R 117130	1	15	6	22	.1	74	27	386	2.75	4	5	ND	1	44	.8	2	2	71	1.53	.062	2	29	2.18	5	.29	2	2.44	.11	.06	1	2
R 119454	1	3	4	52	.1	5	4	538	2.09	2	5	ND	1	8	.2	2	5	15	.21	.034	5	3	.91	14	.08	2	1.24	.04	.06	2	4
R 119455	2	2	8	77	.1	7	5	661	2.21	4	5	ND	1	11	.2	2	4	23	.26	.032	4	11	1.24	16	.10	2	1.41	.04	.04	2	4
R 119456	2	5	5	51	.1	3	3	545	2.24	3	5	ND	1	8	.3	2	2	14	.21	.034	5	3	.88	28	.09	2	1.24	.04	.06	1	9
R 119457	2	6	2	80	.2	5	3	590	2.86	2	5	ND	1	5	.2	2	2	10	.14	.040	3	4	1.07	13	.04	2	1.50	.04	.06	1	2
R 119458	2	1	2	72	.1	4	4	618	2.97	5	5	ND	1	5	.2	2	2	8	.13	.039	4	3	1.05	31	.03	2	1.43	.04	.04	1	3
R 119459	3	63	7	29	.3	16	14	374	4.66	2	5	ND	1	27	.4	2	2	82	1.48	.042	2	33	1.60	14	.09	2	2.82	.11	.05	2	2
STANDARD C	19	57	39	131	6.8	68	31	1050	3.92	38	18	6	37	53	18.4	15	20	55	.51	.091	37	57	.89	181	.07	34	1.90	.06	.14	11	-

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: Rock AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 13 1990 **DATE REPORT MAILED:** Aug 17/90. **SIGNED BY** C. Leong ....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92H/10, 15

PROPERTY Newmac

DATE July 14 1990

ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
117129	Andesite tuff with minor calcite veinlets. No visible sulfides. Location - L107N @ 116 E											GM
117130	Dark green fine-grain andesite tuff, with calcite micro-fractures. No visible sulfides. Location - L107N @ 116+50 E											GM
114876	Dull green-grey Rhyolite-dacite, Feldspar phenocrysts & Felsic rich groundmass. No visible sulfides. Location L117N @ 102+50 E											GM
114877	Dark green fine to medium grain andesite tuff with 1-2 mm pyroxene crystals. Location L115N @ 112+50 E											GM
114878	Dark green-grey andesite tuff. No visible sulfides. Location L115N @ 111+50 E											GM

G - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92 N 10/15

PROPERTY Newmac

DATE July 19/90

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS	SAMPLED BY
115466	- Rhyolite - Dacite - fine grained - tr- 1% py very Siliceous L110+05N 93+25E	Grab		30 ICP element + Au (Geochem)	JJR
115467	- Siliceous Gossan, possible O/C, probably S/C 1% py, slightly magnetic, L 113+15N @ 99+70E	Grab			JJR
115468	Andesite tuff with fractured controlled limonite and hematite tr-0.5% py of fresh surfaces possible O/C. L ~~95~~ 116+10N @ 95+75E	Grab			JJR

(1)

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N 10/15

PROPERTY NEW MAC

DATE JULY 20, 1990
PROJ 123

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS							SAMPLED BY
					30 ICP + GEOCHEM Au						
R119454	RHYODACITE - L112+40N/104+80E W.S. DK BROWN - RUST (PINK) F.S. LIGHT-MED GREY GREEN - GENERALLY MODERATELY SILICIFIED, INTENSLY FRACTURED, ~~____~~ GENERALLY FINE GRAINED, PLAG? (FELDSPAR) PHENOCRYSTS <1MM, TRACE SULFIDES (PY) CUBIC, <.5MM IN SIZE, HEMATITE STAINING ON FRACTURED SURFACES, MINOR MALACHITE, ON FRACTURE SURFACES, EPIDOTE AS CLOTS ON FRACTURES AND PERVASIVELY.	HORIZ. CHIP	1.5								K. PEARS
R119455	RHYODACITE - L112+40N/104+80E DESCRIPTION AS ABOVE	HOZ CHIP	1.0m								K. PEARSO.
R119456	RHYODACITE - L112+~~35~~/104+90E W.S. RUST - ANKISH BROWN / F.S. GREENISH BROWN/GREY - SILICIFIED MODERATELY, TRACE ~ 1% PY - FINELY DISSEMINATED, MINOR MALACHITE <1% (TRACE).	HORZ CHIP	1.5m								K. PEARSO

②

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 92N 10/15

PROPERTY NEWMAC.

DATE JULY 20, 1990

ROCK SAMPLE REPORT

PROJECT 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
R119457	RHYODACITE - 112+75N/104+75E	TRACE	HORIZ CHIP	1.5M								K. PEARSON
	W.S. - CREAMY BIEGE TO RUST.											
	DISPLAYS MINOR EPIDOTE IN OUTCROP											
	F.S. GREY/GREEN APPEARS HEAVILY											
	SILICIFIED. SAMPLE INTENSLY											
	FRACTURED. HEAVY HEMATITIC											
	STAINING ON FRACTURE SURFACES											
	TRACE SULFIDE THOUGHOUT ON											
	FRESH SURFACE, VERY MINOR											
	MALACHITE STAINING											
R119458	RHYODACITE - AS ABOVE. Same location	TRACE	HORIZ CHIP	1.0M.								K. PEARSON
R119459	DIORITE - 112N/103E											K. PEARSON
	W.S. RUST RED BROWN (GOSSANOUS)	5%	GRAB									
	F.S. GREY/WHITE - RUST.											
	FINE TO MED GRAINED. MINERALIZATION											
	OF PO - HEAVILY SILICIFIED,											
	MINERALIZATION DISSEMINATION											
	AS CLOTS AND FINELY THROUGH											
	OUT SAMPLE.											

G - GEOCHEM A - ASSAY

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Neil Mac (JR)

Noranda Exploration Co. Ltd. PROJECT 9008-087 123 File # 90-3698

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
R 115469	1	12	2	32	.1	7	6	359	2.22	2	5	ND	1	82	.2	2	2	36	1.46	.024	2	7	.93	41	.09	12	1.90	.05	.14	1	4
R 117131	1	24503 ✓	185	29	58.9 ✓	14	4	256	2.19	2	5	ND	1	350	11.8	2	110	97	2.67	.032	2	20	.34	2	.31	8	1.97	.01	.02	1	44
R 124126	1	200	3	68	.6	12	23	499	7.23	11	5	ND	1	10	.2	2	2	224	.32	.020	2	7	1.86	6	.22	4	2.39	.08	.05	1	9
R 124251	34	254	17	51	.6	14	17	439	4.37	28	5	ND	1	78	.2	3	2	105	.90	.029	2	21	1.54	9	.26	5	2.08	.03	.03	1	21
R 124252	1	513	3	4	.7	90	50	162	2.03	4	5	ND	1	254	.2	2	2	33	2.79	.015	2	10	.14	5	.13	5	2.09	.01	.01	1	3
R 124253	1	13	3	29	.2	15	4	170	1.59	4	5	ND	1	238	.2	2	3	70	2.46	.042	2	34	.27	5	.48	8	1.64	.02	.01	1	1
R 124254	1	274	3	33	.4	82	20	411	5.77	11	5	ND	1	18	.2	2	2	87	.77	.033	2	144	2.07	11	.35	4	2.62	.11	.10	1	8
R 124255	4	351	2	78	.7	138	24	1087	9.76	135	5	ND	1	7	.5	5	5	169	.54	.035	2	310	3.44	6	.31	3	4.05	.03	.05	1	13
R 124256	1	23	6	21	.1	5	3	238	1.78	17	5	ND	1	20	.2	2	2	6	1.16	.040	3	5	.39	21	.01	3	1.10	.05	.09	1	34
R 124257	1	130	2	98	.8	23	18	2175	12.45	2	5	ND	2	26	.8	2	2	159	2.33	.037	2	37	2.09	35	.16	2	2.95	.02	.07	1	13
R 124258	1	13	3	43	.2	3	4	874	4.15	26	5	ND	1	20	.2	2	2	30	.58	.049	2	2	1.22	45	.11	3	2.11	.12	.14	1	7
R 124259	1	21	7	75	.3	5	5	1003	4.11	37	5	ND	1	29	.2	2	2	52	.72	.044	2	4	1.78	36	.24	5	2.32	.02	.10	1	11
R 124260	1	30	14	49	.5	4	4	538	4.81	40	5	ND	1	10	.2	2	2	44	.25	.035	2	3	1.17	31	.23	4	1.35	.02	.13	1	33
R 124261	1	15	5	81	.3	4	8	923	3.38	2	5	ND	1	39	.2	3	2	42	.71	.044	2	4	1.88	15	.25	3	2.21	.02	.04	1	7
R 124262	1	21	14	31	.2	3	3	766	3.33	33	5	ND	1	47	.2	2	2	42	.61	.046	2	2	1.20	27	.27	6	1.72	.03	.09	1	7
STANDARD C/AU-R	18	63	41	132	7.1	73	31	1047	3.94	39	20	7	39	52	18.7	15	21	58	.52	.096	39	61	.89	182	.09	36	1.89	.06	.13	13	550

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: Rock AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 21 1990 **DATE REPORT MAILED:** Aug 24/90. **SIGNED BY**..........D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

✓ ASSAY RECOMMENDED

NORANDA EXPLORATIC OMPANY, LIMITED

N.T.S. 92N 10,15

PROPERTY NENMAC

DATE Aug 20

ROCK SAMPLE REPORT

PROJECT 123

MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
115469	altered pyroxene - Hbl porphyry, possible andesite flow, dull green, qtz filled vesicles, calcite on fractured surfaces ~ L120+00N Δ 108+00E	–	grab	-								JJR
124251	Gosson - minor silica flooding, wathers a deep rusty orange red, tr-0.5% py in andesite L 120+75N Δ 104+50	1/2	grab	–								JJR
124252	Fine grained andesite tuffs, up to 10-15% fractured controlled epidote, occurs mainly in small random veinlets, slightly magnetic L120+75N Δ 107+00E	-	grab	–								JJR

G = GEOCHEM A = ASSAY

NORANDA EXPLORATI… COMPANY, LIMITED

N.T.S. ______

PROPERTY *Newmac*

DATE ______

ROCK SAMPLE REPORT

PROJECT: ______

…MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
-124253	Strongly altered volcanic, consists of 35-40% prevasive epidote alteration, slightly magnetic, very dense, ~L 121+00N @ 111+00E	–	grab	–								JJK.
-124254	Strongly altered fine grained andesites, weathers deep rusty orange, siliceous possible granodiorite dyke? cutting the O/C, tr-1% sulphides tr-0.3% cpy, tr bornite 1% py, occurs mainly as fine disseminations ~L 137+50W @ 88+00E ~ Possible Bornite Showing	-1%	grab	–								JJK
-124255	Gossan zone, possible Same Showing as R-124254 weathers a deep rusty red/orange, vuggy in places traces-0.5% sulphides, mainly pyrite L 137+50N @ 87+50E	<1%	grab	–								JJK.

…eared structures 340° ~ 90°

G = GEOCHEM A = ASSAY

NORANDA EXPLORATI[illegible] [illegible]OMPANY, LIMITED

N.T.S. 92N 10/15

PROPERTY NewMAC

DATE Aug 20/80

ROCK SAMPLE REPORT

PROJECT: 123

[illegible]MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
[illegible]-124256	- felsic volcanics cut by numerous qtz-cc veinlets with random orientation, sample taken in gouge zone, large structures 340° 90°, dull light grey ~L139N @ 85+00E	–	grab	-								JSR
[illegible]-124257	- slightly gossan andesitic volcanics, fine grained taken in same cliffs as previous sample, weathers deep red, only traces of sulphides ~ L139N @ 85+00E	<1%	grab	-								JSR
[illegible]24258	- Gouge - Gossan, grey rusty weathers a deep rusty orange/red, and brittle, traces of sulphides.											
[illegible]24259	- L13 shear zone? Gossan o/c consists on strongly altered Andesitic volcanics, slightly [illegible]											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATIC ;OMPANY, LIMITED

N.T.S. ____________

PROPERTY ____________ DATE ____________

ROCK SAMPLE REPORT

PROJECT: ____________

MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
cont 124259	silified, traces of sulphides mainly pyrite, shears are vertical dipping 20-30° strike L 139N @ 81+00E											
-124260	taken 3 metres west of previous sample, highly gossan gouge, very brittle L 139N @ 81+00E	tr	grab	-								JJK
-124261 ~~124262~~	- fine grained andesites, 1-2% pyrite throughout possible traces of cpy, mainly fractured controlled, numerous small qtz-cc veinlets L 139N @ 80+90N	1-2	grab	-								JJK
-124262	- Same as previous O/C only traces of py taken 5 metres to the west.	tr	grab									

G = GEOCHEM A = ASSAY

NORANDA EXPLORATIO. OMPANY, LIMITED

N.T.S. 92N10,15

PROPERTY Newmac

DATE Aug 20/90

ROCK SAMPLE REPORT

PROJECT: 123

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
124126	taken 2 km's south of Butler Lake, altered andesitic flows, hematite (specularite) on fractured surfaces	–	grab	–								JCK

G = GEOCHEM A = ASSAY

NORANDA EXPLORAT , COMPANY, LIMITED

N.T.S. 92N/11O.

PROPERTY NewMAC

DATE Aug 20/90

SAMPLE REPORT

AMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ASSAYS							SAMPLED BY
117131	Malachite - Azurite - Covellite Showing, host fine grained andesite tuff, 10-15% malachite 2-3% azurite, 2-5% covellite, sample also contains up to 20% epidote, occurs as thin veins minor calcite on fractured surfaces, sample taken from a small shear zone (20-30cm) 130° 90° tr bornite.										JJR.
	99+10 N 120+15E										

APPENDIX V

STATEMENT OF COSTS

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COSTS

PROJECT: Newmac (Newmac, St. Teresa 1, St. Teresa 6) DATE: January 7, 1991

TYPE OF REPORT: GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL

a) Wages:

No. of Days	166 Mandays	
Rate per Day	$ 119.67	
Dates From:	June 15 - July 21/90	
Total Wages	166 x $ 119.67	$19,865.22

b) Food & Accomodations:

No. of Days	166 Mandays	
Rate per Day	$ 31.05	
Dates From:	June 15 - July 21/90	
Total Costs	166 x $ 31.05	$ 5,154.30

c) Transportation:

No. of Days	37 Days	
Rate per Day	$ 52.34	
Dates From:	June 15 - July 21/90	
Total Costs	37 x $ 52.34	$ 1,936.58

d) Instrument Rental:

Type of Instrument		
No. of Days		
Rate per Day	$	
Dates From:		
Total Costs	x $	

Type of Instrument		
No. of Days		
Rate per Day	$	
Dates From:		
Total Costs	x $	

e)	Analysis: (See attached schedule)	$ 9,439.90
f)	Cost of preparation of Report	
	Author:	$ 320.00
	Drafting:	$ 240.00
	Typing:	$ 240.00

g) Other:

Contractor

Lloyd Geophysics Ltd.

Magnetometer Survey	28.6 kms x $167.21 (Includes food & accommodation)	$ 4,782.21
I.P. Survey	24.575 kms x $1,409.33 (Includes food & accommodation)	$34,634.29

White Saddle Air

10.7 hrs @ $700.00/hr ($625.00 flight + $75.00 fuel)	$ 7,490.00

Total Cost	$84,102.50

h)	Unit costs for	Geology	
	No. of Days	22 days	
	No. of Units	67 mandays	
	Unit costs	$235.18 /manday	
	Total Cost	67 x $235.18	$15,757.06
i)	Unit costs for	Geochem	
	No. of Days	20 days	
	No. of Units	805 samples	
	Unit Costs	$17.49/sample	
	Total Costs	805 x $17.49	$14,080.86
j)	Unit Costs for	Linecutting	
	No. of Days	14 days	
	No. of Units	56.025 kms	
	Unit Costs	$238.73/km	
	Total Costs	56.025 x $238.73	$13,374.85

k)	Unit Costs for Magnetometer Survey		
	No. of Days	6 days	
	No. of Units	28.6 kms	
	Unit Costs	$169.83/km	
	Total Costs	$169.83 x 28.6 kms	$ 4,857.01
l)	Unit Costs for I.P. Survey		
	No. of Days	18 days	
	No. of Units	24,575 km	
	Unit Costs	$1,466.24/km	
	Total Costs	24.575 x $1,466.24	$36,032.72
		GRAND TOTAL	$84,102.50

NORANDA EXPLORATION COMPANY, LIMITED

(WESTERN DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT:

	ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
SOILS	ICP (30 Element + Geochem Au)	664	$11.35	$7,536.40
ROCKS	ICP (30 Element + Geochem Au)	141	$13.50	$1,903.50

			TOTAL	$9,439.90

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COSTS

PROJECT: Newmac (Newmac East Group) DATE: January 7, 1991

TYPE OF REPORT: GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL

a) Wages:

No. of Days	60 mandays	
Rate per Day	$ 119.67	
Dates From:	July 22 - August 14/90	
Total Wages	60 x $ 119.67	$7,180.20

b) Food & Accomodations:

No. of Days	60 mandays	
Rate per Day	$ 31.05	
Dates From:	July 22 - August 14/90	
Total Costs	60 x $ 31.05	$1,863.00

c) Transportation:

No. of Days	23 days	
Rate per Day	$ 52.34	
Dates From:	July 22 - August 14/90	
Total Costs	23 x $ 52.34	$1,203.82

d) Instrument Rental:

Type of Instrument		
No. of Days		
Rate per Day	$	
Dates From:		
Total Costs	x $	

Type of Instrument		
No. of Days		
Rate per Day	$	
Dates From:		
Total Costs	x $	

e) **Analysis:** (See attached schedule) — $ 6,347.15

f) **Cost of preparation of Report**

Author:	$ 160.00
Drafting:	$ 120.00
Typing:	$ 120.00

g) **Other:**

Contractor

Lloyd Geophysics Ltd.

Magnetometer Survey	8.8 kms x $167.21/km (includes food & accommodation)	$ 1,471.45
I.P. Survey	5.725 kms x $1,409.33/km (includes food & accommodation)	$ 8,068.41

White Saddle Air

5.6 hrs @ $700.00/hr ($625.00 flight + $75.00 fuel)	$ 3,920.00

Total Cost — $30,454.03

h)

Unit costs for	Geology	
No. of Days	7 days	
No. of Units	10 mandays	
Unit costs	$249.16 / manday	
Total Cost	10 x $249.16	$ 2,491.60

i)

Unit Costs for	Geochem	
No. of Days	9 days	
No. of Units	556 samples	
Unit Costs	$18.23/sample	
Total Costs	556 x $18.23	$10,136.05

j)

Unit costs for	Linecutting	
No. of days	15 days	
No. of Units	33.1 kms	
Unit Costs	$202.98/km	
Total Costs	33.1 x $202.98	$ 6,718.52

k)	Unit Costs for	Magnetometer Survey		
	No. of Days	2 days		
	No. of Units	8.8 kms		
	Unit Costs	$201.30/km		
	Total Costs	8.8 x $201.30		$ 1,771.45
l)	Unit Costs for	I.P. Survey		
	No. of Days	4 days		
	No. of Units	5.725 kms		
	Unit Costs	$1,630.81/km		
	Total Costs	5.725 x $1,630.81		$ 9,336.41
			GRAND TOTAL	$30,454.03

NORANDA EXPLORATION COMPANY, LIMITED
(WESTERN DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT:

	ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
SOILS	ICP (30 Element + Geochem Au)	539	$11.35	$6,117.65
ROCKS	ICP (30 Element + Geochem Au)	17	$13.50	$ 229.50
			TOTAL	$6,347.15

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COSTS

PROJECT: Newmac (Newmac 3 Claim) DATE: January 7, 1991

TYPE OF REPORT: GEOPHYSICAL

a) Wages:

No. of Days

Rate per Day $

Dates From:

Total Wages x $

b) Food & Accomodations:

No. of Days

Rate per Day $

Dates From:

Total Costs .x $

c) Transportation:

No. of Days

Rate per Day $

Dates From:

Total Costs x $

d) Instrument Rental:

Type of Instrument

No. of Days

Rate per Day $

Dates From:

Total Costs x $

Type of Instrument

No. of Days

Rate per Day $

Dates From:

Total Costs x ·$

e) Analysis:
(See attached schedule)

f) Cost of preparation of Report

Author:

Drafting:

Typing:

g) Other:

Contractor

Aerodat Ltd.

Helicopter - Borne magnetic, electromagnetic & VLF-EM Survey $62,200.00

Total Cost $62,200.00

h) Unit costs for Airborne Survey

No. of Days	8 days	
No. of Units	435 line kms	
Unit costs	$142.99 /km	
Total Cost	435x $142.99	$62,200.00

APPENDIX VI

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS
****

I, D. Graham Gill of the city of Vancouver, Province of British Columbia, hereby certify that:

I am a geologist residing at #126-8600 General Currie Road, Richmond B.C.

I have graduated from the University of British Columbia in 1983 with a BSc in geology.

I have worked in mineral exploration since 1979.

I have been a temporary employee with Noranda Exploration Company, Limited since May, 1979 and a permanent employee since November, 1987.

D. Graham Gill

D. Graham Gill

STATEMENT OF QUALIFICATIONS

I, Ted Wong, of the City of Vancouver, Province of British Columbia, hereby certify that:

1. I am a geophysicist residing in Burnaby, B.C.

2. I have graduated from the University of British Columbia in 1983 with a B.Sc. in Geophysics.

3. I am a professional geophysicist, registered with the Association of Professional Engineers, Geologists and Geophysicists of Alberta. I am a licensed professional geophysicist, registered with the Association of Professional Engineers, Geologists and Geophysicists of the Northwest Territories.

4. I have practised by profession on a continual basis since 1984.

5. I have been employed by Noranda Exploration Company, Limited since September, 1989.

Ted Wong

Ted T. Wong