ARIS SUMMARY SHEET

Di. .rict Geologist, Smithers Off Confidential: 92.03.04

ASSESSMENT REPORT 21086 MINING DIVISION: Liard

PROPERTY: Gold
LOCATION: LAT 57 02 00 LONG 130 43 00
UTM 09 6322193 395811
NTS 104G02E
CLAIM(S): Gold 1-4,Demon 2,Gig 4
OPERATOR(S): Noranda Ex.
AUTHOR(S): Baerg, R.;Wong, T.
REPORT YEAR: 1991, 76 Pages
COMMODITIES
SEARCHED FOR: Copper,Gold
KEYWORDS: Permian,Metavolcanics,Sediments,Contact zone,Jurassic,Pluton
Quartz veins,Pyrite,Chalcopyrite
WORK
DONE: Geochemical
ROCK 41 sample(s) ;ME
SILT 57 sample(s) ;ME
SOIL 252 sample(s) ;ME
Map(s) - 1; Scale(s) - 1:10 000
MINFILE: 104G

GEOLOGICAL, GEOCHEMICAL

REPORT ON THE

GOLD PROPERTY

(Gold 1 - 4 CLAIMS)

N.T.S. 104 G/02

LIARD MINING DIVISION

Situated at coordinates: 57° 02' N
130° 43' W

NORANDA EXPLORATION COMPANY, LIMITED
(NO PERSONAL LIABILITY)

21,084

by Robert Baerg
Ted Wong

February, 1991

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LIST OF FIGURES

1.0 Summary

The Gold claims were acquired by option from Santa Marina Gold Ltd. in August 1990. There is no history of prior work on the property. During August to October 1990 a program of airborne EM-Mag surveys, reconnaissance geological mapping, soil, silt, rock and pan sampling was completed on the property.

Approximately 3/4 of the property is underlain by Jurassic quartz-feldspar porphyry granite, the remainder is underlain by Permian metavolcanics and sediments.

Mineralization observed to date consists of local disseminated pyrite in the intrusive and Permian rocks and local quartz-chalcopyrite veins within a volcanic roof pendant in the intrusive. The best gold results, 4.14 gmt in a grab sample, came from the quartz-chalcopyrite veins.

Reconnaissance soil and silt sampling has identified 9 anomalous areas, the most interesting of which occur in the Permian rocks. Anomalous elements include Au, Ag, As, Ba, Cd, Cu, Pb, and Zn.

The only area which warrants further work in 1991 is the area of geochemical anomalies on the east side of More Creek.

2.0 Introduction:

The Gold property was optioned from Santa Marina Gold Ltd. in August of 1990. The property has no previous exploration history. 1990 field programs on the property consisted of airborne EM - Mag surveys, reconnaissance geological mapping, prospecting, soil, rock, silt and heavy mineral sampling.

3.0 Location & Access:

The Gold property is located along the More Creek valley 15 km west of Highway #37 and Bob Quinn Lake. Access is via helicopter from Bob Quinn Lake where Vancouver Island Helicopters has a permanent base.

4.0 History:

Although there has been considerable work done in the surrounding area over the past few years no work has been reported on the area covered by the Gold claims.

5.0 Physiography & Vegetation:

The area along the More Creek valley is one of high relief, ranging from the flat outwash plains in the valley bottom to high rugged ridges. Elevations range from 520 to 1860 meters. Slopes generally range from 20 to 45 degrees with local steeper sections. Vegetation consists of sparse to moderately abundant spruce with heavy undergrowth of alder, devil's club and buckbrush at lower elevations. These thin out upslope into grass covered alpine slopes.

6.0 Claim Statistics:

NAME	UNITS	RECORD #	EXPIRY DATE
Gold 1	20	7309	May 11, 1992
Gold 2	20	7310	May 11, 1993
Gold 1	20	7064	Mar. 4, 1992
Gold 2	20	7065	Mar. 4 1992
Gold 3	20	7066	Mar. 4, 1993
Gold 4	20	7067	Mar. 4, 1993
Demon 2	7	7773	Aug.22, 1993
Gig 4	20	7063	Mar. 4, 1992

CREEK

N

S

15 20 Miles

20 25 30 Kilometres

REVISED

GOLD CLAIMS

LOCATION MAP

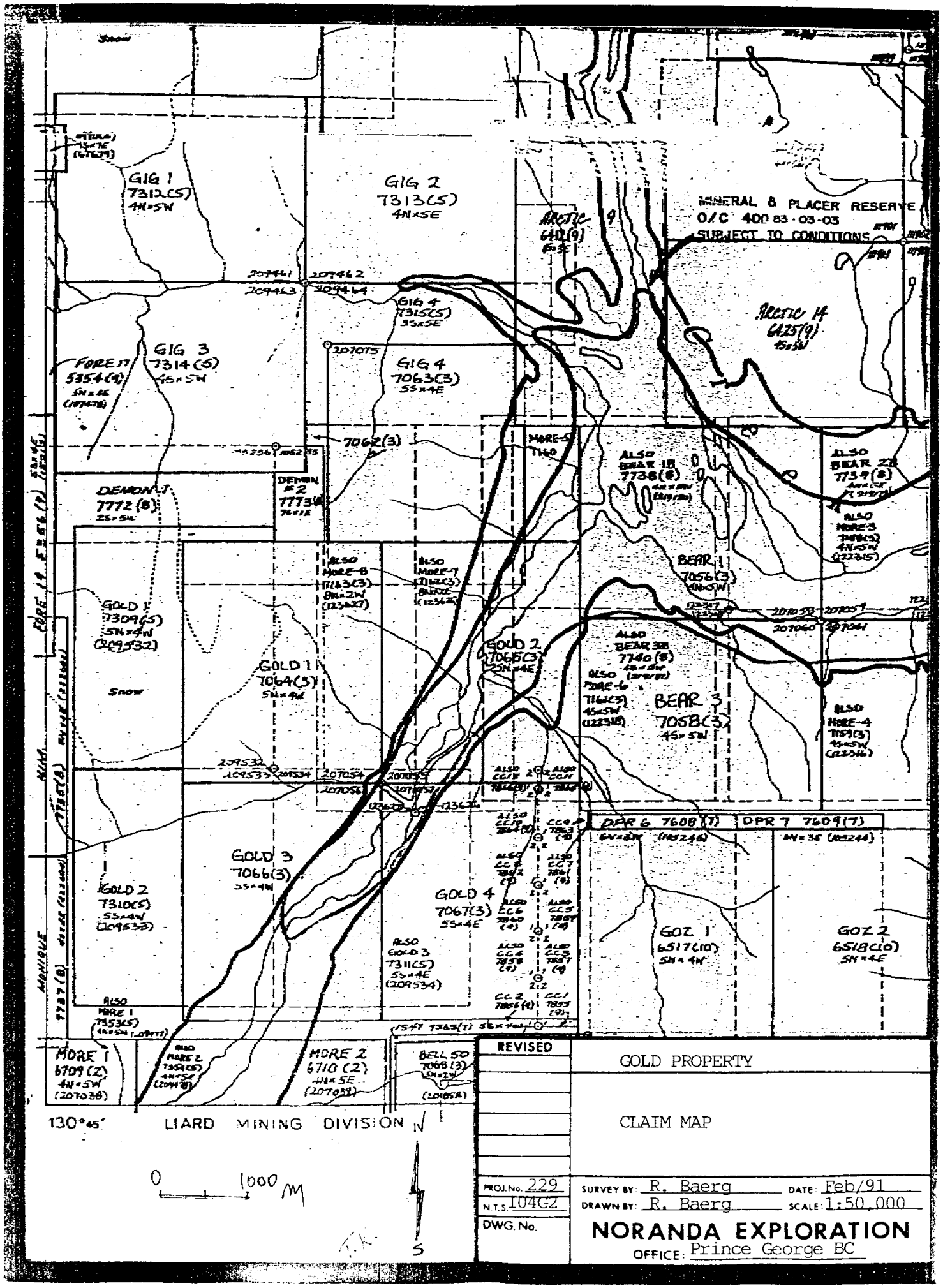
PROJ. 229 | SURVEY BY: R. Baerg | DATE: Dec '90

N.T.S. 104G | DRAWN BY: R. Baerg | SCALE: 1:250,000

DWG. No. 1

NORANDA EXPLORATION

OFFICE: Prince George, B.C.


GIG 1
7312(C5)
4N×SW
GIG 2
7313(C5)
4N×SE
MINERAL & PLACER RESERVE
O/C 400 83-03-03
SUBJECT TO CONDITIONS
ARCTIC 10
6410(9)
6N×SE
ARCTIC 14
6425(9)
6S×SW
207461
207462
209463
209464
GIG 4
7315(C5)
5S×SE
GIG 3
7314(C5)
4S×SW
FOREST
5354(9)
5N×4E
207075
GIG 4
7063(3)
5S×4E
7062(3)
MORE-5
7160
ALSO
BEAR 1B
7736(8)
ALSO
BEAR 2B
7737(8)
DEMON 1
7772(8)
2S×5W
DEMON #2
7773(8)
ALSO
MORE-8
7163(3)
8N×2W
ALSO
MORE-7
7162(3)
ALSO
MORE-3
7158(3)
4N×5W
BEAR 1
7056(3)
4N×5W
GOLD 1
7309(C5)
5N×4W
GOLD 1
7064(3)
5N×4E
GOLD 2
7065(3)
2N×4E
ALSO
BEAR 3B
7740(8)
ALSO
MORE-6
7161(3)
4S×5W
BEAR 3
7058(3)
4S×5W
ALSO
MORE-4
7159(3)
4S×5W
207054
207055
207056
207057
DPR 6 7608(7)
DPR 7 7609(7)
GOLD 3
7066(3)
5S×4W
GOLD 2
7310(C5)
5S×4W
GOLD 4
7067(3)
5S×4E
ALSO
GOLD 3
7311(C5)
5S×4E
(209534)
GOZ 1
6517(10)
5N×4W
GOZ 2
6518(10)
5N×4E
ALSO
MORE 1
7355(5)
MORE 1
6709(2)
4N×5W
(207038)
ALSO
MORE 2
7356(5)
MORE 2
6710(2)
4N×5E
(207039)
BELL 50
7068(3)
(209534)
130°45'
LIARD MINING DIVISION
0
1000 M
N
S
REVISED
GOLD PROPERTY
CLAIM MAP
PROJ. No. 229
N.T.S. 104G2
DWG. No.
SURVEY BY: R. Baerg
DRAWN BY: R. Baerg
DATE: Feb/91
SCALE: 1:50,000
NORANDA EXPLORATION
OFFICE: Prince George BC

7.0 Regional Geology:

The property is located in a geologically diverse area. The oldest rocks mapped in the area are the Paleozoic, (Devonian to Permian aged), Stikine Assemblage. These rocks form a broad northerly trending belt west of the Forrest Kerr Fault with local small inliers east of the fault. The "Assemblage" consists of Devonian intermediate to felsic metavolcanics overlain to the south by a metasedimentary package. The package has undergone two phases of penetrative deformation. Upper Triassic Stuhini Group rocks lie between the West Slope and Forrest Kerr Faults south of Forrest Kerr Creek and east of the Forrest Kerr Fault. A generalized stratigraphy consists of a lowermost metasedimentary sequence, a medial metavolcanic sequence and an overlying tuffaceous metasedimentary sequence. Contacts between units are faulted or poorly exposed and stratigraphic relationships are poorly understood.

Jurassic rocks are comprised of a lower shale/siltstone unit with local upper Middle Jurassic Mt. Dilworth equivalent felsic volcanics, overlain by basalt flows and breccias, a tuff and wacke unit which are in turn conformably overlain by the Bowser Lake Group sediments.

Intrusive rocks in the area range in age from Permian to Tertiary, in composition from diorite to granite and in size from narrow dykes and sills to kilometre scale plutons. Intrusive activity appears to be concentrated in a 10 km wide north trending belt with the bulk of the intrusive activity being Jurassic in age.

The area has a strong structural fabric comprised of extensive steeply dipping northeast and northwest faults with left and right lateral displacement. A large number of the faults formed during the Jurassic and several of them remained active into the Miocene. (Logan et al, 1990)

8.0 1990 Field Program

During August to October 1990 field programs consisting of airborne EM-Mag surveys, reconnaissance geological mapping, soil, rock, silt and heavy mineral sampling were completed on the Gold claims.

8.1 Property Geology:

According to mapping by Souther (1971) and reconnaissance mapping by Noranda approximately the northwestern 3/4 of the property is underlain by a large Jurassic leucocratic granite pluton. The remaining southeastern 1/4 of the property is underlain by dark green-grey foliated andesitic tuffs and argillites of Paleozoic age. (Fig. 4)

Within the pluton at least one large pendant of green andesitic flows and tuffs has been identified. The pendant is moderately to strongly chlorite - epidote altered, primary bedding was locally observed and there was a general lack of penetrative fabric. This evidence seems to indicate that the pendant is Mesozoic in age. As well local, 1 - 5 m wide , dark green diabase dykes cut the granite, generally in a NE direction.

The pluton has ubiquitous Fe - carbonate +/- hematite alteration ranging from weak to locally intense along narrow shear zones. Hematite occurs throughout as fracture coatings and local discontinuous, poddy quartz - hematite breccia zones.

8.2 Mineralization:

Mineralization observed consists of: 1) trace disseminated pyrite in the granite and Paleozoic rocks; 2) hematite in the granite; 3) trace chalcopyrite in local sheared diabase dykes and; 4) local quartz - chalcopyrite stringers within the roof pendant. All of the above are discontinuous and erratic in distribution and orientation. Only the quartz - chalcopyrite stringers have returned appreciable gold values to date, up to 4140 ppb in a grab sample.

8.3 Geochemistry:

A total of nine (9) recon traverses were completed on the property. Soil and/or silt samples were collected at 100 m intervals along the traverses. Where soil samples were collected a grubhoe was used to dig down to the "B" horizon, usually 25 to 35 cm. In alpine areas the soil horizons were not often that well developed and the sample material often consisted of talus fines. The sample material was placed in Wet- strength Kraft paper bags, air dried and then shipped to Noranda Labs in Vancouver. The samples were analysed for Au plus 30 element ICP. For the analytical procedure refer to Appendix III.

A total of 252 soils, 51 silts, 41 rocks and 6 heavy mineral samples were collected and a total of nine (9) anomalous areas have been identified, four (4) within the granite and five (5) within the Paleozoic rocks. (Fig. 4) Anomalous elements include Au, Ag, As, Ba, Cd, Cu, Pb and Zn. Each of the anomalous areas is listed and discussed below.

Anomaly	Lithology	Sample Type	Elements	# Samples
I	granite	soil, rock	Au,Ba,Cu,Pb	14
II	granite	soil	Ag,As,Ba,Cu,Mo,Pb	1
III	granite	soil	Au,As,Mo,Pb	1
IV	phyllite	soil, silt	As,Ag,Ba,Cd,Mo,Pb	11
V	phyllite	soil, silt	As,Ag,Ba,Cu	8
VI	phyllite	soil, silt	Au,Ag,As,Ba,Cd,Pb,Zn	6
VII	phyllite	soil, silt	As,Ag,Ba	9
VIII	phyllite	soil, silt	Au,As	3
IX	granite	soil, rock	Au,Cu	4

Anomaly I

Anomaly I is located on the western boundary of the Gold 1 claim. The anomaly consists of soil samples 129947 to 129964 and rock sample 130766.

The anomalous samples are located in an area of carbonate +/- sericite - barite altered granite with local areas of hematite +/- silica breccia. Sample 130766, Returning 108 ppb Au, was from one of the breccia zones. It is possible that the anomalies are originating from the breccia zones and/or the local structurally controlled carbonate - barite - silica zones.

Anomaly II

Source as for Anomaly I.

Anomaly III

Source as for Anomaly I.

Anomaly IV

Anomaly IV is located in the southwest portion of the Gold 2 claim. The anomaly is underlain by dark green - grey phyllites and metavolcanics. Other than trace amounts of pyrite, no mineralization has been observed in this area. The strength of the lead values, to 222 ppm, would indicate at least the presence of lead bearing minerals in the area of 129904 to 129906. The silt samples and elevated As - in - soil results also appear to indicate a nearby source.

Anomaly V

Anomaly V is located in the southeast corner of the Gold 3 claim. The anomaly contains elevated Ag, As, Cu values to 3.8 ppm, 38 ppm, 1421 ppm respectively. Again no mineralization has been observed in this area. Silt sample 82226 possibly indicates an upslope source for at least some of arsenic. There is very little outcrop in this area but what was seen consisted of argillites and phyllites.

Anomaly VI

Anomaly VI is located in the central eastern portion of the Gold 3 claim. Within the anomaly there are fairly elevated Pb, Ba, As - in - soil values indicating proximity to an area of mineralization. This area also contains local anomalous Au, Ag, Zn values. Silt samples returned anomalous As, Ba, Cd, Zn values.

Only minor phyllite was observed in this area.

Anomaly VII

Anomaly VII is located in the northeast corner of the Gold 3 claim. The anomaly consists of spotty Ag, As, Ba - in - soil values and is interpreted to be underlain by the phyllite - metavolcanic package.

Anomaly VIII

Anomaly VIII is located immediately north of the northeast corner of the Gold 3 claim. This anomaly contains the most and highest gold anomalies on the east side of More Creek. Again there is little or no outcrop in this area and what was observed consisted of dark green phyllite. Potentially the source of the gold maybe on the Gold 4 claim.

Anomaly IX

Anomaly IX is located along the eastern boundary of the Demon 2 claim. The area is underlain by andesitic flows and tuffs which are locally cut by quartz - carbonate - chalcopyrite stringers. Samples 130770 and 130776 were grab samples of this mineralization and the soil samples probably reflect this mineralization.

9.0 Conclusions:

The Gold property is underlain by Jurassic intrusives and Paleozoic metasediments and metavolcanics. Reconnaissance work in 1990 has outlined nine (9) multielement geochemical anomalies, five in the Paleozoic rocks and four in the intrusives. Owing to the extensive outcrop in the area of the intrusive anomalies these anomalies are given a low priority for followup. The anomalies underlain by the Paleozoic rocks on the other hand have little geological information but do occur proximal to the Forrest Kerr Fault and any possible splays thereof. These anomalies warrant further geological and geochemical followup.

10.0 Recommendations:

The following program is recommended for 1991:

1) Cut a control/baseline along the east side of More Creek.
2) Run 200 m spaced crosslines for the purpose of mapping and soil sampling in the area of the anomalies.

11.0 Bibliography:

Read, P.B. et al : G.S.C. Open File 2094 - Geology, More and Forrest Kerr Creeks. 1989.

Souther, J.G. : G.S.C. Paper 71-44 Telegraph Creek Map Area B.C., 1972.

APPENDIX I

SUMMARY COST STATEMENT
(Gold 1, Gold 1 and Demon 2 Claim)

Project: SM - Gold
Type of Report: Geological, Geochemical
Date: February 25, 1991

1)	Geology:	
	12 days @ $150.00/day	$ 1,800.00
2)	Geochemistry:	
	Silt Samples 2 @ $ 12.00/sample	$ 24.00
	Soil " 55 @ $ 12.00/sample	$ 660.00
	Rock " 35 @ $ 12.00/sample	$ 420.00
3)	Transportation:	
	Helicopter 5hrs @ $670.00/hr	$ 3,350.00
4)	Supplies/Lodging:	
	12 days @ 100.00/day	$ 1,200.00
5)	Report:	
	Drafting	$ 100.00
	Writing	$ 200.00
	Project Work Total	$ 7,754.00

APPENDIX I

SUMMARY COST STATEMENT
(Gold 2, 2, 3, 4 and Gig 4 Claims)

Project: SM - Gold
Type of Report: Geological, Geochemical
Date: February 25, 1991

1)	Geology:		
	33 Days @ 150.00/day		$ 4,950.00
2)	Geochemistry:		
	Silt Samples	49 @ $ 12.00/sample	$ 588.00
	Soil "	197 @ $ 12.00/sample	$ 2,364.00
	Rock "	6 @ $ 15.00/sample	$ 90.00
	Pan "	6 @ $ 25.00/sample	$ 150.00
3)	Transportation:		
	Helicopter 9hrs @ $ 670.00/hr		$ 6,030.00
4)	Supplies/Lodging:		
	33 days @ 100.00/day		$ 3,300.00
5)	Report:		
	Drafting		$ 200.00
	Writing		$ 400.00
		Work Project Total	$18,072.00

APPENDIX II

STATEMENT OF QUALIFICATIONS

APPENDIX I

STATEMENT OF QUALIFICATIONS

I, Robert J. Baerg of the city of Prince George, Province of British Columbia, do certify that:

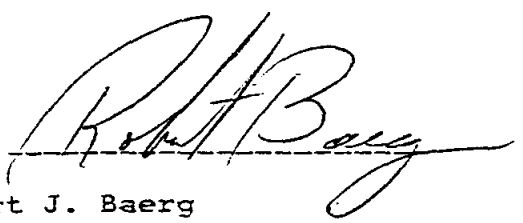
1. I have been employed as a geologist by Noranda Exploration Company, Limited since May, 1984.

2. I am a graduate of the University of British Columbia with a Bachelor of Science (Honors) in Geology (1984).

3. I am an Associate Fellow of the Geological Association of Canada.

4. I am a member of the Canadian Institute of Mining and Metallurgy.

5. I supervised and assisted with the work described in this report.



Robert J. Baerg
Geologist
Noranda Exploration Company, Limited
(No Personal Liability)

APPENDIX III

ANALYTICAL PROCEDURE

ANALYTICAL PROCEDURE

Soils, Silts, Rocks

The samples are dried and screened to -80 mesh. Rock samples are pulverized to -120 mesh. A 0.2 gram sample is digested with 3 ml of $HClO_4/HNO_3$ (4 to 1 ratio) at 203° C for four hours, and diluted to 11 ml with water. A Leeman PS 3000 is used to determine elemental contents by I.C.P. Note that the major oxide elements and Ba, Be, Ce, Ga, La and Li are rarely dissolved completely from geological materials with this acid dissolution method.

For Au analyses, a 10.0 gram sample of -80 mesh material is digested with aqua regia and determination made by A.A.

Heavy Mineral Concentrates

The entire concentrate is digested in aqua regia solution, and elemental concentrations of Au, Ag, Cu, Pb, and Zn are determined by A.A.

APPENDIX IV

SAMPLE DESCRIPTIONS / ANALYSES

Quest for Noranda.

NORANDA EXPLORATION COMPANY, LIMITED

GOLD PROPERTY

PROPERTY (Steep Cr. near More Cr) ?

N.T.S. 104G/2

DATE Aug. 20/90

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
128901	Heavily FeOx stained, altered, siliceous, green-grey rx w/ diseem. Py (also Po ?) Elev 790m	4%	Chip	1.0m								J. Hannaford J. Roberts
128902	(Same as 901) Elev. 785m	4%	Chip	1.0m								
903	(Same as 901 except w/ malachite) 780m	4%	Chip	1.0m								
904	(Not taken – void)	—	—	—								
905	(Same as 901) Elev: 770m	4%	Chip	1.0m								

C – SPECTRUM A – ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

GC1 # 50575

PROPERTY Koala ~~[redacted]~~ west (GOLD, GC)

N.T.S. 104 G/2

DATE August 18, 1990

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
128690 GIG	40cm diameter, sub-rounded, rusty weathering boulder. 5% pyrite in a 25% K-spar porphyritic trachyte with a fine grained grey matrix	5	~~float~~									G.V.
128693 GOLD.	4% pyrite in a 20cm angular boulder in a silicically altered breccia with chert-like fragments	4	float									G.V

C - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

GCI #50575

N.T.S. 104 G/2

PROPERTY Koala west (GG + GOLD)

DATE Aug 19, 1980

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
128689 GG	Qtz vein cutting through granite 1% chalcopyrite in vein. boulder Just large enough to sample GCI 50575	1	float									B Fyke
128691 GOLD	Qtz vein specular hematite stringers, some limonite alteration strike 185° dip 78°E width 1 meter GCI 50575	~	Grab	1m								
128692 GOLD	specular hematite and chalcopyrite in a Biotite rich volcanic. 35cm x 25 x 15 GCI 50575	5	float									
128694 GOLD	silicic bleached lenses in Andesitic host. propolitic Alteration. slickensides present coated with epidote. chalcopyrite in Qtz flooded areas as well as host. zone x 2 meters wide GCI 50575	5	Grab									

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104G/2

PROPERTY GOLD

DATE Aug 20 /90

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
109441	Float from cliff above - silicified bedrock in gtz porphyry. - fine disseminated py.	5	FLOAT	—								MS.

G - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY LIMITED

N.T.S. 104 G/2

PROPERTY Koala West (Gold)

DATE Aug 18, 1990

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
106976	Mineralized well rounded ~20cm float cobble w/ 1cm qtz veins containing py & cpy blebs	3	float									E.G.
~~Reserved~~ Aug 20/90												
129626	shear zone with minor quartz veining in granitic host strike 40° extent 10m	trace.	chip	1m								C.S.

G – GEOCHEM A – ASSAY

GOLD

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY SANTA MARINA / KOALA (WEST)

N.T.S. 104 G/2

DATE Aug 18 90

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
109649	Composite grab of pyritic qtz-sericite veins from stockwork in granodiorite	5	grab	—								MS.
109650	Composite grab from rubble zone close to source, dark rusty brown qtz-sericite vein in granodiorite	2	"	—								"
128944	Local, angular float of brecciated qtz porphyry w spec. hematite in matrix, stringers	—	FLOAT	—								"
128945	Very rusty, dark grn-grey mafic dyke w 5-10% coarse disseminated py.	7	grab	—								"
128946	Similar to above, sheared and bleached, subcrop	5	grab	—								"

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. _____

PROPERTY "Koala East GOLD" DATE Aug 19, 90

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
129712	Float - black Argillite brecciated by Calcite and QTz, trace sulphides 0.1m diam.	Trace	Float	-								

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104/G2

PROPERTY Gold (Demon-1)

DATE August 22nd, 1990 & 23rd

ROCK SAMPLE REPORT

PROJECT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
129548	553m along Demon 1 claim line 53m past 25 1E, float semi-rounded 15% py, muscovite, med grained, some epidote present, abudunt QTZ	15%	float	—	2	11	12	20	.1	10	16	J.N.T
129549	Granite, float semi-Rounded, 10% py, euhedral x'lls, med grained	10%	float	—	1	5	8	4	.1	3	8	J.N.T
August 23rd												
128740	silicous andesite with 10% py, 40cm, angular, magnesium staining, weathered to an Indian red	10%	float	—	2	11	2	14	.1	9	14	H. L.
129550	float, 30cm angular boulder with 25-30% py, silicous	28%	float	-	6	10	6	20	.4	49	35	JNT
129551	Semi-Rounded Qtz Garnet with 10% py in blebs and large well formed x'lls, weathered to Indian Red	10%	float	-	12	3	4	8	.3	2	6	JNT
129552	75cm angular orange weathered boulder, some malacite staining, 5% calcopy	5%	float	—	1	3770	7	60	.3	2	9	JNT

G - GEOCHEM A - ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104/G2

PROPERTY Gold (Demon-1)

DATE August 23rd 1990

ROCK SAMPLE REPORT

PROJECT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
129553	1 m boulder, angular, 15-20% py in blebs and diss, light green andesite slightly alt, ~~py~~ in fairly silicous	18%	float	—	1	43	6	22	.7	3	8	JNF & HL
129554	Alt. andesite, fairly silicous, light grey fine grained, 5% diss py	5%	chip	5m	1	18	2	28	.1	2	18	JNF & HL
129555	20-30% py in qtz vein, strike 030°-040° dip 45°-55°, same vein as 129554, qtz surrounded by dk. grey Andesite	20%	chip	5m	4	5	2	3	.2	13	30	JNF & HL
129556	Same vein as 129554 and 129555 10-15% py but 10m down on strike extent? possibly ± 100m	10%	chip	5m	3	5	2	13	.1	10	44	JNF & HL
129557	Same vein with 25% py as 129554-129556, on strike	25%	chip	3m	3	9	2	3	.1	20	130	JNF & HL
129558	Dark black fine grained Andesite containing tr-1% calco py?, Hemite 5% some calcite and epidote visible, some tr malachite staining	tr	chip	3m	1	178	2	34	.3	3	5	JNF

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104/G2

PROPERTY Gold (Demon-1)

DATE August 23rd & 24th/1990

ROCK SAMPLE REPORT

PROJECT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
129559 ✓	Rounded 35cm boulder of Granite with 5% py, euhedral x'lls of py	5%	float	-	1	7	6	5	.1	14	6	GWE&HL
29560 ✓ August 23rd	Rounded 40cm boulder of Granite with K Fdspar, slightly alt 5% py	5%	float	—	10	2	6	1	.1	12	10	GWE&HL
129561	chip 1meter wide slightly alt andesite with 2% ~~stricus~~ py, silicous, weathered to an Indian red	2%	chip	1m	2	250	456	209	.3	23	16	GW
129562	angular boulder 1m, slightly alt. andesite py diss. and fracture coating, dark black fine grained, weathered to Rusty Red	5%	float	—	20	476	16	45	1.6	40	16	GW
129563	10% diss. py in a weathered Rusty Red zone, very silicous andesite	10%	chip	1m	16	17	7	10	.9	46	35	GW
129564	andesite, 15-20% diss. py, slightly silicous, slightly alt. andesite	15%	chip	5m	1	138	2	113	.2	13	6	GW
129565	wallt. andesite 5-10% py, light grey → green, fine grained, large outcrop +10m	5%	chip	10m	1	8	6	59	.2	2	2	KH

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. _____

PROPERTY Gold. DATE Aug 24, 90

ROCK SAMPLE REPORT

PROJECT _____

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
129723	Plagioclase Porphyry Andesite. light grey weathering. Carbonate alteration	Trace	grab	—	1	113	169	556	.2	21	1	
129724	Float - Epidotized Andesite with 2cm wide QTz - epidote vein with calcopyrite	5	Float	—	1	2123	11	30	.7	3	3	
129725	Float - Beside 129724. Andesite with near massive sulphides silicified	20	Float	—	4	204	7	51	.9	14	13	
Aug 25												
109444 ✓	Pyritic QTz vein in Andesite Dike cutting Granite.	50	chip	0.7m	6	147	3	8	.3	30	21	
129726 ✓	QTz vein - abundant mica (Talc?)	0	chip	0.4m	1	39	5	5	.1	2	1	
129727 ✓	- Float. small QTz veinlets in Andesite. with sulphides rusty surface, ~~Granitic Host~~	10	Float	—	2	2	6	76	.1	2	1	

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Gold (Santa Marina)

N.T.S. 104G/2

DATE Sept 2/90

PROJECT

ROCK SAMPLE REPORT

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
130758	Coarse grained gte-fs-porphyry with local pale green-wh. gte veins to 5cm, cc-sc	tr	grab	float								PB
	[illegible] 130758	tr	grab	talus								
	[illegible] 130758	tr	grab	talus								
	fs fgr. 130758	tr	grab	talus								

G – GEOCHEM A – ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104G/2

PROPERTY Gold (Santa Marina)

DATE Sept 3/90

ROCK SAMPLE REPORT

PROJECT

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
130762 ✓	limey ep-chl skarn with local qtz veins	—	grab	float								RB
130763 ✓	silicified qtz-fs porphyry, breccia, infilled with spec. hem, 10% hem		grab	float								
130764 ✓	as for 130763		"	"								
130765	vuggy qtz-vein stkwk boulders, tr py, abund. limonite	tr	"	"								
130766	as for 130763		"	"								
130767 ✓	sheared dk green chl-ep alt dyke with tr. mal.		"	"								
130768 ✓	as for 130763		"	"								

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 G/2

PROPERTY Gold (Santa Marina)

DATE Sept 2, 1990

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
02401 ✓	Location - See map; +72m from start of traverse - Green phyllite - rusty qtz lens (~10X20cm) w/small cc lenses - minor py, cubes to 1mm in qtz - dusty spec. hematite	minor	Grab									DEW
102402 ✓	Location - 450m from start of traverse - Green phyllite - thin qtz veins + lenses - minor Fe stains in qtz	-	Grab									DEW
102403	Location - 850m from start of traverse - Green phyllite - qtz veining ranging to 2 cm - minor py, f. diss., cubes to 1mm & blebs - minor Fe staining (on small localized areas)	minor	Float									DEW

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 G/2

PROPERTY L. Klorma (Gold)

DATE Sept 3, 1990

ROCK SAMPLE REPORT

PROJECT

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
024404 ✓	Location - 1290m from start of traverse - light brown phyllite - qtz lenses	-	Grab	o/c								DEW
102405 ✓	Location - 1800m from start of traverse - med. brown phyllite - thin qtz veins	-	Grab	talus								DEW
102406 ✓	Location - 2500m from start of traverse - blue-grey slate - cc on fracture surfaces -	tr	Grab	float								DEW
102407 ✓	Location - 2750m from start of traverse - blue-grey phyllite - limonite-stain on fracture surfaces	-	Grab	o/c								DEW

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. _____

PROPERTY Gold (Santa Monica) DATE Sept 5, 1990

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
[illegible]176	Location - 0m on West side of	-	Grab	talus								DSH
✓	More Ck traverse											
	- quartz porp. intrusive											
	- rusty brown matrix											
	- limonitic staining											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104/G

PROPERTY Gold

DATE Sept. 18/90

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
131551 V	(grab) strong epidote alt. w andesite host w <3% cpy, 1% py, str. sil boulder (Hbs) Loc. 430m	<4	Grab	Talus								AV

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Santa Marina (Gold)

N.T.S. 104/G2

DATE Sept 18, 90

PROJECT 236

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
130213	- 150 metres, 4450 ft el - fine grained med grn to grey volcanic rock; slightly porphyritic - taken from small hematite stained patch within outcrop	<1	grab	/								BP

G = GEOCHEM A = ASSAY

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

GEOCHEMICAL ALYSIS CERTIFICATE SM. Gold (RB)

Noranda Exploration Co. Ltd. PROJECT 9009-038 229 File # 90-4456

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
102401	1	15	2	19	.2	4	2	363	.98	2	5	ND	2	11	.2	2	2	2	.13	.030	7	5	.07	272	.01	2	.22	.03	.11	2	6
102402	1	2	8	2	.3	3	1	61	1.02	2	6	ND	1	12	.2	2	2	1	.05	.032	4	4	.01	312	.01	2	.12	.02	.14	2	5
102403	1	8	4	60	.3	6	15	1067	5.52	17	5	ND	1	671	.6	2	2	39	5.21	.315	16	7	1.58	43	.01	2	1.53	.02	.04	1	5
102404	1	4	3	36	.1	3	7	423	2.47	6	5	ND	2	8	.2	2	2	1	.02	.003	13	2	.16	71	.01	2	.39	.02	.06	1	4
102405	1	11	2	77	.1	4	6	725	3.52	10	5	ND	3	7	.2	2	2	8	.17	.067	15	4	.15	120	.01	2	.49	.02	.16	1	3
102406	1	2	2	55	.1	19	11	889	4.61	6	5	ND	1	22	.4	2	2	23	.80	.011	8	16	1.55	94	.01	2	1.81	.01	.12	1	3
102407	7	32	17	33	.6	19	4	204	3.39	30	5	ND	1	3	.2	4	2	6	.01	.051	5	5	.02	117	.01	3	.24	.01	.11	1	7
130758	1	1560	2898	537	95.6	7	23	402	2.19	975	5	ND	1	426	14.9	2150	2	2	.04	.004	3	2	.02	155	.01	2	.17	.01	.09	1	2
130759	2	4	11	41	.2	12	4	983	1.42	3	5	ND	2	28	.3	4	2	11	.29	.005	4	12	.01	778	.01	2	.16	.01	.04	2	4
130760	2	17	10	13	.4	5	4	361	1.10	8	5	ND	1	510	.2	6	2	5	.09	.002	2	6	.01	902	.01	2	.17	.01	.07	2	3
130761	2	51	2	14	.2	8	5	419	1.11	7	5	ND	1	485	.2	10	2	3	.01	.003	2	5	.01	967	.01	3	.20	.01	.07	2	9
130762	1	4	2	32	.2	1	1	652	.83	2	5	ND	3	34	.5	2	2	29	6.35	.023	3	2	.02	575	.06	537	.87	.01	.01	2	8
130763	1	2	2	14	.2	5	5	103	1.44	2	5	ND	5	9	.2	2	2	2	.01	.009	4	4	.01	335	.01	2	.18	.03	.07	1	4
130764	1	14	2	4	.1	3	7	166	3.48	5	5	ND	2	6	.3	2	2	17	.28	.011	2	2	.02	185	.03	3	.21	.05	.04	1	2
130765	8	2	2	1	.1	6	1	36	.97	2	5	ND	1	7	.2	2	2	1	.01	.002	3	6	.01	292	.01	2	.17	.02	.10	2	7
130766	3	4	4	4	.1	2	2	66	12.05	6	5	ND	5	4	.3	2	2	12	.05	.005	2	1	.01	133	.03	2	.19	.03	.10	4	108
130767	1	9991	15	68	.2	31	13	743	3.25	2	5	ND	1	412	.6	2	2	47	1.93	.021	2	43	1.94	64	.15	2	2.47	.01	.10	1	9
130768	2	12	3	8	.1	3	6	96	8.17	5	5	ND	4	5	.2	2	2	12	.03	.008	2	1	.01	289	.05	2	.22	.04	.09	2	4
STANDARD C/AU-R	18	58	41	131	6.9	71	32	1049	3.97	40	19	7	40	55	19.8	15	18	57	.52	.096	39	58	.90	182	.09	36	1.90	.06	.13	11	510

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: SEP 14 1990 DATE REPORT MAILED: Sept 19/90 SIGNED BY .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Copy to Rob

RECEIVED SEP 25 1990

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 G/2

PROPERTY Gold (Santa Marina)

DATE Sept 2, 1990

ROCK SAMPLE REPORT

PROJECT:

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo.	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
102401 ✓	Location - +72m from start of traverse - green phyllite - rusty qtz lens (~10x20cm) with small cc lenses - minor py, cubes to 1mm in qtz - dusty spec. hematite	minor	Grab	talus	1	15	2	19	0.2	2	6	DSW
102402	Location - 450m from start of traverse - green phyllite - thin qtz veins + lenses - minor Fe staining in qtz	-	Grab	o/c	1	2	8	2	0.3	2	5	DSW
102403	Location - 850m from start of traverse - green phyllite - qtz veining ranging to 2cm - minor py, f. diss, blebs, cubes to 1mm - minor Fe staining (on small localized areas)	minor	Grab	float	1	6	4	60	0.3	17	5	DSW

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 G/2

PROPERTY Santa Marma (Gold)

DATE Sept 3, 1990

ROCK SAMPLE REPORT

PROJECT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
02404	Location - 1290m from start of traverse - light brown phyllite - qtz lenses	—	Grab	0/c	1	4	3	36	0.1	6	4	DEW
02405	Location - 1800m from start of traverse - med. brown phyllite - thin qtz veins	—	Grab	talus	1	11	2	77	0.1	10	3	DEW
02406	Location - 2500m from start of traverse - blue-grey slate - cc on fracture surfaces -	tr	Grab	float	1	2	2	55	0.1	6	3	DEW
02407	Location - 2750m from start of traverse - blue-grey phyllite - limonite stains on fracture surfaces	—	Grab	0/c	7	32	17	33	0.6	30	7	DEW

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 1046/2

PROPERTY Gold

DATE Sept 2/90

ROCK SAMPLE REPORT

PROJECT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
130758	Coarse grained qtz-fs-porphyry with local pale green-white qtz-barite veins to 5cm; cc-sc alteration	tr	grab	float	1	1560	2898	537	95.6	975	2	RB
30759	As for 130758	tr	grab	talus	2	4	11	41	0.2	3	4	
30760	As for 130758	tr	grab	talus	2	17	10	13	0.4	8	3	
30761	As for 130758	tr	grab	talus	2	51	2	14	0.2	7	9	

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104G/2

PROPERTY Gold (Santa Marina)

DATE Sept 3/80

ROCK SAMPLE REPORT

PROJECT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
130762 ✓	limey ep-chl skarn with local qtz veins	—	grab	float	1	4	2	32	0.2	2	8	RB
130763 ✓	silicified qtz-fs porphyry, breccia, infilled with spec. hem, 10% hem		grab	float	1	2	2	14	0.2	2	4	
130764 ✓	as for 130763		"	"	1	14	2	4	0.1	5	2	
130765	vuggy qtz-vein stkwk boulders, tr py, abund. limonite	tr	"	"	8	2	2	1	0.1	2	7	
130766	as for 130763		"	"	3	4	4	4	0.1	6	108	
130767 ✓	sheared dk green chl-ep alt dyke with tr. mal.		"	"	1	999	15	68	0.2	2	9	
130768 ✓	as for 130763		"	"	2	12	3	8	0.1	5	4	

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104G/2

PROPERTY Gold (Santa Marina)

DATE Sept 5, 1990

ROCK SAMPLE REPORT

PROJECT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
130976 ✓	location - 0m on Westside of More Ck traverse - quartz porp. intrusive - rusty brown matrix - limonitic staining	-	Grab	talus	1	108	2	8	0.1	10	9	DEH ✓

NORANDA VANCOUVER LABORATORY
Geochemical Analysis

Project Name & No.: SANTA MARINA GOLD - 229 | Geol.: R.B. | Date rec'd: SEP 14

Material: 8 SILTS, 160 SOILS | Sheet: 1 of 5 | Date comp OCT 04

LAB CODE: 9009-038

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

¤ Organic

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 this acid dissolution method.

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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	SILT	102426		5	0.4	4.35	18	654	1.1	2	0.93	0.6	49	13	15	36	3.79	1.22	19	24	0.81	1264	1	0.06	16	0.11	45	94	0.12	100	118
3		102427	*	5	0.2	2.47	19	599	0.8	2	1.91	1.0	44	10	12	41	2.68	0.53	16	23	0.75	1208	1	0.04	12	0.14	13	175	0.09	70	168
4		102428		6	1.2	4.70	28	700	1.4	2	0.15	0.2	43	6	6	20	3.86	1.13	19	19	0.32	536	1	0.14	5	0.21	33	107	0.11	83	87
5		102429	*	5	0.2	3.30	18	620	1.0	2	2.09	0.8	45	8	4	36	2.28	1.13	15	17	0.71	1161	1	0.10	10	0.08	11	128	0.07	54	100
6	SILT	102430	*	6	0.2	3.82	32	907	0.9	2	1.52	0.8	45	16	14	58	4.10	1.04	17	37	0.69	2035	1	0.06	26	0.14	13	160	0.08	104	184
7	SILT	102431	*	5	0.2	4.55	27	877	1.0	2	0.64	1.1	42	13	19	43	4.01	1.22	18	30	0.77	1449	1	0.08	22	0.11	13	74	0.10	115	204
8		102432	*	5	0.2	1.01	16	372	0.5	2	2.79	1.9	30	7	29	65	1.57	0.14	10	7	0.54	1670	1	0.03	19	0.14	16	145	0.04	39	298
9	SILT	102433	*	5	0.4	2.21	35	439	0.8	2	1.90	1.2	41	12	21	64	2.43	0.44	19	16	0.82	1333	1	0.03	20	0.14	14	122	0.05	60	176
10	SOIL	102951		5	0.2	4.89	11	1080	1.8	2	0.24	0.6	70	12	9	16	4.79	1.18	27	10	0.40	2224	1	0.10	9	0.13	14	30	0.22	62	127
11	SOIL	102952		5	0.2	3.33	19	248	1.6	2	0.46	0.8	59	13	18	39	3.76	0.58	26	14	0.62	874	2	0.12	14	0.09	20	56	0.22	78	110
12	SOIL	102953		5	0.2	4.08	16	192	1.0	2	0.30	0.2	50	8	15	30	3.75	0.51	20	11	0.38	513	2	0.10	8	0.10	16	49	0.23	79	87
13		102954		5	0.2	3.53	6	291	0.5	2	0.11	0.2	31	4	8	7	2.25	0.66	14	4	0.18	475	1	0.09	3	0.11	19	17	0.24	56	48
14		102955		5	0.2	4.05	19	281	1.8	2	0.34	0.6	69	10	18	33	4.11	0.65	28	13	0.52	765	1	0.15	11	0.09	17	59	0.20	72	113
15		102956		5	0.2	5.76	14	507	1.8	2	0.14	0.7	56	20	21	32	6.71	0.90	28	25	0.54	1998	1	0.10	33	0.14	16	141	0.21	109	220
16	SOIL	102957		5	0.2	3.48	12	132	1.0	2	0.21	0.2	50	6	19	21	3.67	0.41	22	10	0.26	548	1	0.11	7	0.11	13	37	0.37	81	68
17	SOIL	102958		5	0.6	3.97	18	353	1.2	2	0.28	0.5	50	10	28	25	4.43	0.77	22	12	0.41	1199	1	0.12	13	0.12	13	50	0.23	95	90
18		102959		5	2.0	2.78	165	1839	0.6	2	0.22	0.3	33	7	29	100	4.41	0.39	15	8	0.20	740	11	0.08	8	0.14	238	95	0.34	105	135
19		102960		5	0.2	3.48	11	60	0.9	2	0.08	0.4	47	3	18	11	4.38	0.14	24	4	0.10	437	1	0.08	3	0.12	9	10	0.36	56	57
20		102961		5	0.2	3.73	10	199	1.0	2	0.30	0.3	56	7	19	19	3.68	0.43	22	12	0.33	693	1	0.13	7	0.09	14	48	0.21	64	82
21	SOIL	102962		5	0.2	4.17	15	287	1.1	2	0.24	0.7	49	8	17	22	3.63	0.61	24	13	0.28	691	3	0.11	9	0.12	15	59	0.22	71	69
22	SOIL	102963		5	0.2	6.36	16	403	1.3	2	0.25	0.4	50	16	10	22	4.79	1.50	21	13	0.34	1325	1	0.12	16	0.12	12	161	0.13	135	81
23		102964		5	0.2	3.74	14	188	1.1	2	0.24	0.2	58	6	17	20	3.77	0.49	26	11	0.32	481	1	0.16	8	0.11	10	40	0.29	68	76
24		102965		5	0.2	3.95	17	81	1.5	2	0.28	0.2	81	7	17	20	5.73	0.23	36	9	0.26	1500	2	0.15	6	0.13	10	28	0.21	66	99
25		102966		5	0.2	4.03	13	133	0.7	2	0.34	0.2	34	5	17	19	4.39	0.37	15	6	0.28	367	1	0.08	6	0.13	9	45	0.33	112	43
26	SOIL	102967		5	0.2	3.92	10	123	1.1	2	0.17	0.3	78	4	13	17	4.58	0.42	31	9	0.20	439	1	0.14	5	0.09	13	38	0.20	45	80
27	SOIL	102968		5	0.2	4.82	14	343	0.7	2	0.25	0.2	41	8	8	27	3.30	1.01	17	11	0.34	839	1	0.05	7	0.06	8	99	0.09	60	56
28		102969		5	0.2	6.85	11	283	0.6	2	0.05	0.2	22	11	52	8	3.50	1.65	10	9	0.19	1797	1	0.07	14	0.10	7	73	0.28	198	74
29		102970		5	0.2	4.02	10	160	0.8	2	0.34	0.6	53	6	20	22	3.79	0.51	23	9	0.33	632	1	0.07	7	0.07	11	56	0.11	53	68
30		102971		1257	0.2	3.92	13	263	0.5	2	0.46	0.5	38	8	19	22	2.93	0.91	14	8	0.49	538	1	0.04	9	0.07	6	76	0.12	71	54
31	SOIL	102972		5	0.2	4.76	17	239	0.8	2	0.33	0.9	41	11	92	24	3.27	0.93	20	25	0.40	590	1	0.07	22	0.09	12	135	0.14	96	59
32	SOIL	102973	*	5	0.2	1.28	7	2205	0.2	2	0.15	0.4	24	3	8	10	1.62	0.28	11	3	0.11	178	1	0.04	4	0.08	5	52	0.12	51	67
33		102974		5	0.2	2.30	6	198	0.3	2	0.35	0.2	26	2	18	5	0.83	0.51	11	3	0.12	265	1	0.10	2	0.05	8	51	0.12	41	27
34		102975		5	0.2	2.20	7	109	0.4	2	0.13	0.3	39	2	18	10	3.04	0.34	19	5	0.13	155	2	0.12	3	0.07	11	27	0.46	80	43
35		102976		5	0.2	2.53	5	166	0.3	2	0.12	0.4	30	1	15	4	0.68	0.49	15	4	0.13	73	1	0.06	2	0.04	13	35	0.38	47	29
36	SOIL	102977		5	0.2	6.03	22	258	0.8	2	0.11	0.5	38	4	3	43	3.78	1.43	17	11	0.24	402	1	0.04	3	0.08	10	52	0.13	51	51

T.T. No.	SA... No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	ppm
37	SOIL	102978		5	0.2	1.11	2	69	0.3	2	0.10	0.2	18	2	10	5	0.71	0.21	9	3	0.07	78	1	0.23	2	0.03	10	15	0.16	27	31
38		102979		5	0.2	2.80	5	162	0.3	2	0.33	0.3	28	2	15	6	1.32	0.34	12	4	0.14	111	1	0.05	3	0.06	11	41	0.39	82	38
39		102980		202	0.2	2.65	4	111	0.3	2	0.29	0.4	32	2	19	5	1.25	0.26	14	4	0.15	114	1	0.09	2	0.05	13	40	0.44	82	27
40		102981	•	5	1.0	0.32	2	101	0.2	2	0.20	0.3	9	1	2	6	0.12	0.10	2	1	0.04	57	1	0.01	2	0.06	3	15	0.01	6	50
41	SOIL	102982		5	0.2	4.86	11	449	0.7	2	0.29	0.7	35	7	20	16	3.59	0.74	18	9	0.35	285	3	0.09	8	0.05	14	48	0.30	137	50
42	SOIL	102983		5	0.2	3.63	7	144	0.3	2	0.24	0.4	28	2	10	6	1.84	0.34	13	5	0.15	122	1	0.04	2	0.05	11	38	0.23	72	28
43		102984		5	0.2	3.82	2	301	0.3	2	0.14	0.3	24	2	6	3	0.85	0.70	11	3	0.15	99	1	0.05	1	0.03	9	32	0.28	39	26
44		102985		5	0.2	4.29	10	180	0.4	2	0.43	0.2	22	4	2	4	3.72	0.52	7	5	0.43	426	1	0.03	1	0.05	9	38	0.14	88	44
45		102986		5	0.2	2.91	4	398	0.2	2	0.16	0.3	18	1	10	3	0.89	0.45	8	4	0.14	109	1	0.07	2	0.03	8	37	0.26	44	28
46	SOIL	102987	•	5	0.4	2.02	6	67	0.3	2	0.04	0.4	16	3	3	12	0.46	0.08	8	1	0.05	32	1	0.01	4	0.16	13	6	0.02	9	57
47	SOIL	102988		5	0.2	2.68	5	112	0.3	2	0.41	0.6	24	1	14	5	0.99	0.23	10	4	0.15	121	1	0.08	2	0.05	16	51	0.36	86	27
48		102989		5	0.2	3.19	9	149	0.3	2	0.38	0.3	26	2	16	9	2.82	0.33	11	5	0.20	188	1	0.03	3	0.07	10	47	0.29	106	34
49		102990		5	0.2	2.83	2	155	0.2	2	0.31	0.5	24	1	15	3	0.78	0.35	10	5	0.13	105	1	0.04	1	0.04	14	48	0.40	69	23
51		102991		5	0.2	3.19	12	177	0.5	2	0.32	0.8	34	4	18	8	0.86	0.36	18	7	0.15	132	1	0.07	5	0.04	16	48	0.38	70	22
52	SOIL	102992		5	0.2	3.04	11	151	0.4	2	0.43	0.3	26	5	13	12	3.86	0.38	10	5	0.27	451	1	0.04	4	0.12	7	53	0.22	126	42
53	SOIL	102993		5	0.2	3.61	2	195	0.3	2	0.32	0.3	27	2	13	6	2.16	0.42	11	5	0.20	148	1	0.04	3	0.05	10	50	0.41	122	34
54		102994		5	0.2	3.20	2	155	0.3	2	0.52	0.4	29	2	17	5	0.97	0.37	11	5	0.19	150	1	0.05	3	0.03	8	62	0.25	72	24
55		102995		5	0.2	2.61	3	116	0.2	2	0.48	0.3	27	3	13	5	1.36	0.24	10	4	0.15	150	1	0.06	2	0.03	9	57	0.33	80	23
56		102996		5	0.2	2.84	2	138	0.2	2	0.41	0.2	26	2	14	6	1.78	0.25	10	3	0.17	155	1	0.04	2	0.04	6	47	0.29	97	29
57	SOIL	102997		5	0.2	2.50	7	123	0.2	2	0.45	0.3	23	2	12	8	2.38	0.27	8	3	0.17	159	1	0.04	2	0.05	5	47	0.23	107	27
58	SOIL	102998	•	5	0.2	1.88	3	123	0.2	2	0.26	0.3	15	2	16	7	1.06	0.21	5	2	0.12	102	1	0.02	4	0.07	7	34	0.13	53	42
59		102999	•	5	0.4	1.12	4	98	0.2	2	0.30	0.5	15	3	8	8	1.25	0.14	5	2	0.16	94	1	0.03	3	0.08	6	31	0.13	42	51
60		103000	•	5	0.2	2.38	2	123	0.2	2	0.21	0.3	20	1	13	4	0.82	0.26	9	4	0.11	116	1	0.03	2	0.04	5	36	0.25	48	39
61		129901		5	0.2	5.00	11	431	1.0	2	0.15	0.5	48	6	11	13	2.53	1.72	26	11	0.52	186	1	0.04	6	0.05	12	62	0.18	78	54
62	SOIL	129902		5	0.2	4.15	5	306	0.6	2	0.11	0.3	47	3	16	8	1.83	1.08	23	6	0.38	128	1	0.04	3	0.04	8	69	0.26	67	51
63	SOIL	129903		5	1.0	2.66	7	310	0.7	2	0.22	0.4	38	4	22	13	2.55	0.48	16	7	0.24	409	1	0.18	4	0.08	11	46	0.24	75	55
64		129904		5	0.2	5.20	17	897	1.5	2	0.09	0.2	47	7	6	17	4.81	1.90	22	9	0.60	1039	1	0.03	7	0.14	[illegible]	61	0.12	79	85
65		129905		5	0.2	4.63	16	470	0.8	2	0.09	0.3	42	5	6	15	3.19	1.55	20	[illegible]	0.40	218	1	0.03	6	0.11	[illegible]	46	0.13	65	83
66		129906		5	0.4	3.87	13	228	0.7	2	0.10	0.2	43	3	10	7	4.56	0.72	20	5	0.27	184	1	0.05	4	0.08	[illegible]	43	0.17	63	63
67	SOIL	129907		5	0.4	3.80	19	356	0.7	2	0.08	0.2	45	5	10	14	5.36	1.00	22	7	0.36	236	1	0.04	8	0.11	17	32	0.18	97	75
68	SOIL	129908		5	0.6	4.89	19	460	1.1	2	0.20	0.2	47	12	26	33	4.72	0.91	22	[illegible]	0.66	521	1	0.05	15	0.10	[illegible]	53	0.13	121	112
69		129909		5	1.6	3.39	18	241	0.7	2	0.10	0.2	52	4	18	11	5.76	0.68	24	8	0.38	813	1	0.08	5	0.10	18	35	0.42	117	84
70		129910		5	0.8	4.96	23	437	0.8	2	0.08	0.2	35	8	20	36	5.71	0.90	17	19	0.82	433	1	0.03	11	0.07	9	39	0.11	101	85
71		129911	•	5	0.4	5.88	6	493	1.1	2	0.06	0.5	53	5	5	11	2.23	1.57	28	9	0.38	222	1	0.04	4	0.05	10	18	0.17	50	62
72	SOIL	129912	•	5	0.4	8.65	13	942	2.1	2	0.02	0.5	73	4	2	8	3.35	2.70	36	14	0.53	230	1	0.07	3	0.07	8	35	0.13	47	72
73	SOIL	129913		5	0.2	8.44	11	724	1.3	2	0.03	0.2	72	4	3	8	3.99	2.30	36	6	0.47	366	1	0.04	3	0.06	11	20	0.18	55	77
74		129914		5	0.2	3.77	17	358	0.8	4	1.51	0.4	41	19	42	70	5.98	1.10	14	8	0.62	2131	1	0.04	29	0.20	6	39	0.08	170	121
75		129915		5	0.2	3.69	13	289	0.7	2	0.66	0.5	39	14	43	35	4.61	0.35	15	15	1.10	1109	1	0.06	21	0.12	7	46	0.23	168	84
76		129917		5	0.4	3.00	23	339	0.6	2	0.21	0.2	34	6	23	33	4.61	0.64	15	14	0.41	441	1	0.04	9	0.17	6	56	0.17	130	69
77	SOIL	129918	•	5	0.2	3.37	19	695	0.9	2	1.09	0.6	43	12	11	33	3.35	0.83	16	[illegible]	0.84	1186	1	0.05	12	0.11	7	133	0.10	96	152
78	SOIL	129919		5	0.8	3.33	45	251	0.5	3	0.12	0.2	38	8	17	38	7.38	0.54	18	[illegible]	0.26	661	1	0.03	10	0.25	7	261	0.23	167	97
79		129920		5	0.2	2.94	20	131	0.3	2	0.13	0.2	22	5	23	13	3.97	0.24	11	[illegible]	0.15	313	2	0.02	6	0.07	8	42	0.38	213	58
80		129923		5	0.4	6.32	38	448	1.3	2	0.09	0.2	77	12	6	21	5.40	2.17	33	[illegible]	0.43	1125	5	0.02	8	0.18	13	27	0.12	59	108
81	SOIL	129924		5	0.6	5.24	15	533	2.0	2	0.65	1.1	70	11	14	21	4.54	1.34	35	22	0.39	1865	5	0.04	7	0.19	14	59	0.35	76	127

T.T. No.	SA... No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	... ppm	Fe %	... %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	... ppm
82	SOIL	129925	5	0.8	2.14	30	291	0.5	2	0.28	0.3	27	4	10	21	2.27	0.09	12	20	0.18	164	1	0.03	5	0.19	10	39	0.11	94	96
83	SOIL	129926	5	0.2	2.95	10	281	1.6	2	0.46	0.2	63	9	18	45	3.84	0.50	23	11	0.71	1397	1	0.17	13	0.10	6	55	0.17	56	94
84		129927	120	0.2	3.18	12	258	1.2	2	0.83	0.5	59	15	26	60	4.29	0.43	20	11	1.05	1350	1	0.13	17	0.09	9	90	0.20	103	95
85		129928	5	0.2	3.12	15	220	1.6	2	0.82	0.7	66	14	50	66	3.89	0.37	23	11	1.04	989	1	0.11	26	0.10	10	65	0.20	84	104
86		129929	5	0.2	3.43	12	335	0.9	2	0.98	0.5	58	17	30	41	3.73	0.54	18	10	1.09	1150	1	0.07	19	0.07	7	87	0.16	89	78
87	SOIL	129930	5	0.2	3.12	11	201	0.6	3	1.34	0.7	54	19	21	69	3.58	0.45	18	8	1.58	944	1	0.09	24	0.06	8	90	0.14	81	69
88	SOIL	129931	5	0.2	3.21	12	155	0.8	3	0.90	0.5	53	15	23	61	3.47	0.38	19	9	1.26	835	1	0.10	20	0.10	11	66	0.20	76	80
89		129932	5	0.2	4.33	12	147	1.0	3	1.23	0.7	59	24	25	58	4.27	0.35	18	11	2.09	1034	1	0.16	34	0.09	7	69	0.19	77	97
90		129933	5	0.2	4.32	18	187	1.6	2	1.28	0.9	74	24	30	209	4.40	0.37	29	13	1.82	964	1	0.13	31	0.09	14	77	0.20	86	123
91		129934	5	0.2	3.71	17	211	5.4	3	0.75	1.3	135	19	18	128	4.55	0.29	71	18	0.92	1070	3	0.20	21	0.08	17	50	0.21	65	223
92	SOIL	129935	5	0.4	4.23	22	269	1.7	2	1.68	0.9	81	23	22	148	4.68	0.36	30	18	1.27	807	1	0.11	25	0.09	11	120	0.20	115	153
93	SOIL	129936	5	0.2	3.88	18	251	3.0	3	0.77	0.6	94	15	14	62	4.61	0.37	39	16	0.93	1153	1	0.13	17	0.08	11	65	0.19	79	131
94		129937	5	0.2	4.75	21	390	3.0	3	0.64	0.6	117	15	15	72	5.06	0.64	58	23	0.99	1172	1	0.16	20	0.10	16	64	0.19	89	166
95		129938	5	0.2	4.75	15	269	1.3	3	0.80	0.5	72	14	18	53	4.75	0.53	26	19	0.91	740	1	0.13	16	0.11	12	78	0.22	100	108
96		129939	5	0.2	3.81	14	325	1.1	3	1.01	0.6	67	12	13	34	3.83	0.49	22	14	0.75	906	1	0.13	12	0.07	10	85	0.18	80	83
97	SOIL	129940	5	0.2	4.18	19	448	1.8	3	0.86	0.6	88	12	19	47	4.20	0.49	24	18	0.84	1137	1	0.17	15	0.08	17	78	0.16	74	112
98	SOIL	129941	5	0.2	4.91	20	408	1.5	4	1.09	0.7	74	16	23	86	4.48	0.93	21	15	1.34	2288	1	0.07	19	0.07	13	98	0.11	100	64
99		129942	5	0.2	3.46	10	267	1.6	2	0.65	0.3	73	10	18	27	3.89	0.42	22	12	0.67	1008	1	0.12	11	0.08	12	56	0.19	67	97
101		129943	5	0.2	3.63	12	242	2.0	2	0.76	0.7	84	13	20	37	3.93	0.50	27	14	0.88	1140	1	0.10	16	0.07	10	72	0.18	75	100
102		129944	5	0.2	3.10	9	373	1.4	2	0.79	0.3	65	12	29	43	3.44	0.43	23	12	0.95	878	1	0.09	18	0.07	8	70	0.16	70	84
103	SOIL	129945	5	0.2	4.21	7	315	1.6	2	0.77	0.6	80	14	25	43	4.25	0.59	30	15	1.13	1160	1	0.12	20	0.09	12	74	0.20	85	111
104	SOIL	129946	5	0.2	3.97	11	186	1.7	2	0.46	0.3	86	9	24	27	4.50	0.41	28	13	0.64	1015	1	0.14	14	0.08	11	45	0.18	64	126
105		129947	5	0.2	3.50	9	276	1.3	2	0.82	0.4	69	13	18	30	4.02	0.54	24	12	0.93	1042	1	0.11	13	0.07	61	74	0.20	82	93
106		129948	5	0.2	4.08	12	564	1.8	2	0.89	0.4	86	13	16	46	4.21	0.73	39	13	0.93	1234	1	0.09	15	0.07	618	75	0.17	85	94
107		129949	5	0.2	4.44	10	626	1.2	2	0.69	0.3	71	19	24	46	5.07	0.78	29	17	0.97	2008	2	0.08	20	0.08	1621	71	0.15	104	103
108	SOIL	129950	5	0.2	4.44	12	523	1.2	2	0.78	0.4	71	18	13	2677	5.62	0.73	27	17	1.45	2434	1	0.06	14	0.10	293	86	0.14	131	117
109	SOIL	129951	301	0.2	5.19	18	1086	1.8	3	0.60	0.6	86	28	9	1772	6.27	0.83	39	19	0.96	3185	4	0.06	14	0.12	14	89	0.12	146	142
110		129952	5	0.2	3.51	6	441	1.0	2	0.48	0.3	55	12	20	42	4.30	0.77	22	13	0.66	1251	1	0.04	12	0.05	5	61	0.11	65	77
111		129953	5	0.2	3.65	13	412	1.5	2	0.45	0.7	85	12	15	35	3.91	0.50	31	13	0.71	989	1	0.09	13	0.07	5	50	0.16	58	69
112		129954	5	0.2	5.45	9	1188	1.8	3	0.24	0.5	89	13	6	44	5.62	1.31	34	16	1.39	2151	1	0.07	12	0.06	6	23	0.09	49	85
113	SOIL	129955	5	0.2	6.21	8	612	1.5	4	1.82	0.6	75	13	6	85	5.92	1.13	25	16	0.82	2279	1	0.06	12	0.07	8	141	0.08	65	64
114	SOIL	129956	5	0.2	4.37	3	392	1.2	2	0.56	0.4	59	14	18	81	4.79	0.96	21	14	1.03	1703	1	0.06	17	0.06	2	52	0.10	83	77
115		129957	5	0.2	5.55	8	788	1.3	2	0.29	0.4	67	11	16	42	4.84	1.42	29	10	0.68	1663	2	0.04	11	0.06	164	31	0.07	62	59
116		129958	5	0.2	5.29	9	651	1.5	2	0.14	0.2	74	10	6	24	4.65	1.76	30	10	0.43	1848	4	0.05	9	0.05	11	34	0.06	32	53
117		129959	80	0.2	4.59	11	747	1.5	2	0.40	0.3	82	15	110	527	5.00	1.04	35	15	1.12	1416	3	0.07	39	0.08	11	33	0.14	66	70
118	SOIL	129960	5	0.2	11.45	2	334	1.8	2	0.20	0.2	34	4	3	13	4.00	2.28	19	3	0.47	461	1	0.07	9	0.05	293	13	0.04	67	20
119	SOIL	129961	50	0.2	4.02	9	413	1.6	2	0.31	0.4	71	12	22	45	4.41	0.98	26	11	0.86	1400	1	0.05	16	0.07	2	33	0.12	72	73
120		129962	45	0.2	5.30	4	794	1.6	2	0.36	0.5	68	11	14	68	4.74	1.69	29	10	0.73	1216	2	0.06	17	0.10	2	27	0.11	106	66
121		129963	10	0.2	3.18	11	1365	1.4	2	0.33	0.7	56	14	27	37	4.04	0.87	24	11	0.60	1920	83	0.04	17	0.05	6	57	0.10	59	61
122		129964	120	0.2	3.52	12	363	1.6	2	0.29	0.4	65	12	23	43	3.52	0.79	27	11	0.78	1075	1	0.05	16	0.08	2	31	0.16	70	74
123	SOIL	129965	5	0.2	3.23	7	218	1.3	2	0.34	0.3	53	10	23	39	3.24	0.47	20	11	0.86	883	1	0.06	15	0.05	3	37	0.12	61	78
124	SOIL	129966	5	0.2	2.85	6	295	1.2	2	0.39	0.3	53	9	22	27	2.86	0.56	20	10	0.76	887	1	0.06	10	0.05	2	35	0.09	53	68
125	SOIL	129967	5	0.2	2.93	7	293	1.9	2	0.35	0.4	61	8	18	23	3.04	0.45	25	10	0.69	794	1	0.07	11	0.06	2	32	0.13	48	81

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
126	SOIL	129968	5	0.2	3.41	7	306	1.6	2	0.42	0.3	55	9	23	28	3.04	0.68	22	11	0.86	902	1	0.07	12	0.05	2	43	0.10	54	77
127		129969	5	0.2	3.41	5	302	2.7	2	0.32	0.3	78	8	20	31	3.61	0.62	33	12	0.70	1064	1	0.08	12	0.06	4	33	0.14	49	109
128	SOIL	129970	5	0.2	3.80	7	284	1.3	2	0.33	0.4	63	9	22	23	3.36	0.80	23	10	0.75	900	1	0.06	13	0.06	3	37	0.14	52	87
129	SOIL	129971	5	0.2	3.51	12	143	1.6	2	0.22	0.4	73	8	60	23	4.21	0.48	24	11	0.52	735	1	0.12	23	0.08	2	35	0.22	55	119
130		130001	5	0.2	2.86	130	298	0.6	2	0.18	0.2	38	3	15	19	3.83	0.50	16	16	0.28	148	1	0.05	3	0.13	5	37	0.18	104	64
131		130002	5	0.2	4.16	113	255	0.8	2	0.14	0.5	45	5	13	14	3.60	0.59	24	28	0.38	116	28	0.02	5	0.05	13	54	0.25	175	49
132		130003	5	0.2	3.58	16	155	0.5	2	0.05	0.4	49	3	7	6	1.52	0.33	24	29	0.33	127	1	0.02	2	0.03	8	48	0.18	52	48
133	SOIL	130004	5	0.2	2.70	19	145	0.5	2	0.07	0.2	37	3	13	17	6.08	0.24	18	8	0.20	250	1	0.04	5	0.08	10	28	0.20	90	67
134	SOIL	130005	5	0.6	2.45	4	240	0.5	2	0.24	0.2	28	3	13	10	1.86	0.66	12	7	0.24	334	1	0.05	3	0.09	8	36	0.10	56	56
135		130006	5	0.2	3.42	10	111	0.4	2	0.18	0.3	38	6	12	13	3.29	0.50	18	23	0.20	378	1	0.02	4	0.08	5	72	0.17	102	68
136		130007 *	5	1.0	3.14	20	229	0.6	2	0.27	0.2	36	2	15	14	2.06	0.98	16	4	0.20	495	3	0.04	3	0.10	15	44	0.16	59	68
137		130008 *	5	0.8	3.50	8	155	0.6	2	0.17	0.3	42	2	15	6	2.54	0.85	19	4	0.32	187	2	0.04	2	0.07	6	39	0.21	63	72
138	SOIL	130009	5	0.2	2.35	2	249	0.5	2	0.34	0.2	33	2	20	6	1.42	0.54	14	4	0.22	320	1	0.06	2	0.10	4	44	0.16	46	69
139	SOIL	130010 *	5	0.2	5.09	2	231	0.9	2	0.08	0.3	54	2	6	4	2.21	1.71	25	3	0.45	148	1	0.02	2	0.04	5	33	0.09	37	74
140		130011	5	0.2	2.39	2	107	0.3	2	0.15	0.2	35	2	19	5	1.58	0.44	15	3	0.20	154	1	0.03	3	0.04	5	34	0.19	61	47
141		130012	5	0.2	3.30	25	226	0.7	2	0.11	0.6	32	8	27	20	4.57	0.52	18	11	0.37	326	1	0.04	9	0.10	18	51	0.17	112	73
142		130013	5	0.2	3.47	12	215	0.6	2	0.13	0.2	30	5	18	16	3.53	0.52	15	11	0.39	206	1	0.04	7	0.11	10	34	0.16	91	50
143	SOIL	130014	5	0.2	2.75	6	136	0.3	2	0.10	0.2	30	3	28	10	2.40	0.18	15	6	0.19	138	1	0.03	4	0.04	9	44	0.34	126	50
144	SOIL	130015 *	5	0.4	1.66	2	107	0.2	2	0.16	0.2	41	1	16	4	0.93	0.20	19	4	0.12	110	1	0.05	1	0.04	3	58	0.16	34	55
145		130016 *	5	0.2	6.97	5	649	1.3	2	0.07	0.2	29	2	2	4	1.51	1.82	13	4	0.13	80	1	0.13	1	0.04	4	35	0.11	41	41
146		130017	5	0.2	2.92	4	155	0.2	2	0.26	0.4	31	1	35	6	0.99	0.30	14	4	0.20	90	1	0.04	3	0.04	8	49	0.26	86	30
147		130018	5	0.4	2.88	86	814	0.5	2	0.25	0.4	35	5	53	66	3.14	0.79	14	7	0.87	567	1	0.06	9	0.07	205	26	0.11	104	208
148	SOIL	130019	5	1.0	4.92	62	615	0.7	2	0.09	0.3	32	14	30	40	6.55	1.42	13	11	1.38	971	1	0.02	14	0.15	60	16	0.10	124	116
149	SOIL	130020	120	0.6	6.84	119	1522	1.1	2	0.09	0.4	50	25	18	36	7.01	2.81	22	8	0.80	1565	1	0.03	18	0.12	688	21	0.08	118	103
151		130021	5	0.4	3.04	10	377	0.8	2	0.74	0.4	33	14	180	50	4.40	0.52	12	12	0.80	1782	1	0.05	30	0.15	4	44	0.13	145	101
152		130022	5	0.2	2.92	9	84	0.4	2	0.24	0.2	31	6	93	14	5.11	0.19	13	5	0.43	315	1	0.04	10	0.04	7	37	0.39	190	58
153		130023	5	0.2	2.77	14	268	0.4	2	0.22	0.2	35	3	31	21	3.46	0.29	16	6	0.21	148	1	0.04	6	0.09	9	34	0.35	150	60
154	SOIL	130024	5	1.2	3.67	126	188	0.6	2	0.11	0.2	28	10	42	48	6.19	0.42	13	13	0.78	545	1	0.03	17	0.14	8	24	0.16	164	90
155	SOIL	130025	5	0.4	2.82	185	5991	0.6	2	0.38	0.2	36	12	20	55	3.96	0.91	17	4	0.24	806	5	0.05	14	0.10	5	39	0.27	135	88
156		130026	5	0.2	3.48	38	407	0.7	2	0.50	0.2	38	11	17	45	4.03	0.65	15	14	0.60	4041	1	0.05	12	0.10	7	55	0.13	125	87
157		130028	5	0.2	3.20	19	253	0.5	2	0.19	0.2	29	7	30	24	5.13	0.50	13	8	0.32	549	1	0.05	8	0.21	7	35	0.43	178	81
158		130030	5	0.6	2.85	45	182	0.8	2	0.40	0.3	35	14	35	48	8.96	0.43	14	14	0.69	2888	2	0.04	11	0.41	7	38	0.27	206	117
159	SOIL	130031	5	1.2	3.99	35	992	0.7	2	0.21	0.2	35	6	19	33	3.96	1.08	18	18	0.36	365	1	0.05	20	0.27	9	73	0.13	130	74
160	SOIL	130032 *	5	1.2	4.06	228	481	0.9	2	0.23	0.2	30	7	23	67	5.91	1.22	13	7	0.48	334	1	0.02	8	0.20	8	30	0.29	192	74
161		130033	5	0.2	1.79	8	170	0.5	2	0.26	0.5	27	6	24	33	1.98	0.42	14	9	0.14	170	1	0.04	7	0.08	7	39	0.19	92	45
162		130034	5	0.8	2.79	10	174	0.4	2	0.23	0.2	32	5	27	36	4.45	0.38	16	10	0.20	301	1	0.04	7	0.17	11	49	0.20	122	61
163		130035	5	0.8	2.67	10	172	0.4	2	0.44	0.2	28	4	23	27	3.54	0.37	11	6	0.22	819	1	0.03	5	0.19	6	52	0.21	117	42
164	SOIL	130036	5	1.0	3.79	18	8123	0.7	4	0.15	0.2	33	8	25	44	5.61	0.75	18	8	0.46	409	1	0.02	12	0.52	11	19	0.13	138	100
165	SOIL	GD-S-1	5	0.2	2.48	3	131	0.2	2	0.49	0.2	23	2	15	7	2.08	0.28	9	3	0.15	192	1	0.04	2	0.06	7	59	0.24	97	32
166		GD-S-2 *	5	0.2	2.45	3	110	0.2	2	0.34	0.2	21	3	16	9	2.38	0.23	8	3	0.21	147	1	0.04	3	0.05	6	43	0.15	103	34
167		GD-S-3	5	0.2	2.84	4	123	0.2	2	0.47	0.2	26	4	16	9	2.58	0.27	9	4	0.23	185	1	0.05	3	0.04	5	50	0.26	132	33
168		GD-S-4	5	0.2	2.85	6	115	0.2	2	0.47	0.2	24	4	19	9	3.13	0.26	8	3	0.27	228	1	0.04	3	0.06	7	51	0.23	138	32
169		GD-S-5 *	5	0.4	2.39	2	139	0.2	2	0.29	0.2	19	1	16	5	0.72	0.26	8	3	0.12	105	1	0.03	1	0.04	5	41	0.19	47	36
170	SOIL	GD-S-6	5	0.2	2.80	5	132	0.3	2	0.46	0.2	23	4	20	15	3.67	0.28	8	4	0.32	197	1	0.03	4	0.06	5	49	0.15	112	38

T.T. No.	SAM. No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	ppm	Fe %	K	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Tl %	V ppm	ppm
171	SOIL GD-S-7	5	0.4	3.59	15	189	0.6	2	0.40	0.6	34	6	18	19	2.95	0..	17	7	0.32	241	2	0.04	7	0.06	9	51	0.16	109	43
172	SOIL GD-S-10	5	0.4	4.20	19	190	0.5	2	0.41	0.2	30	5	26	23	5.19	0..	13	7	0.42	313	1	0.03	6	0.06	7	50	0.26	202	49

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

GEOCHEMICAL A.. YSIS CERTIFICATE Gold (RB)

Noranda Exploration Co. Ltd. PROJECT 9009-066-229 File # 90-4773

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
130863	3	210	22	9	.8	8	10	746	5.14	166	5	ND	1	121	1.5	2	7	28	5.60	.176	6	1	.16	25	.01	2	.36	.05	.15	1	68
130864	2	138	22	42	.1	14	26	1421	7.13	94	5	ND	1	146	1.6	2	3	48	5.87	.223	8	1	1.87	24	.01	2	.53	.02	.29	1	10
130865	12	87	28	11	.4	18	31	957	6.38	31	5	ND	1	148	1.8	2	6	35	6.46	.254	5	2	.17	26	.01	11	.78	.02	.40	2	38
131551	2	5067	2	38	1.7	24	11	377	2.62	6	5	ND	1	100	1.6	2	2	51	1.29	.027	2	47	.92	54	.18	2	1.54	.01	.01	2	8

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: SEP 24 1990 DATE REPORT MAILED: Sept 29/90 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Copy to Rob

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Gold

N.T.S. 104/G

DATE Sept. 18/90

PROJECT

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
131551	(grab) strong epidote alt. w		Grab	Talus	2	5067	2	38	1.7	6	8	AV
✓	andesite host w <3% cpy, 1% py, str. <4											
	si/ boulder (Hbs)											
	Loc. 430m											

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 I 6 2

PROPERTY Santa Marina (Gold)

DATE Sept 18, 90

ROCK SAMPLE REPORT

PROJECT 236

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
130213	- 150 metres, 4450 ft el	<1	grab	~	3	50	27	401	0.5	40	1	JSP
	- fine grained med grn to grey volcanic rock; slightly porphyritic											
	- taken from small hematite stained patch within outcrop											

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: GOLD

CODE :9009-005

Project No. :240
Material :2 PANS
Remarks :

Sheet:1 of 1
Geol.:M.S.

Date rec'd:AUG 27
Date compl:SEP 25

Values in PPM, except where noted.

T. No.	SAMPLE No.	mass (g)	PPB Au	Cu	Zn	Pb	Ag
1	105210	52.4	5	96	46	2	0.2
2	130426	79.0	5	64	84	1	0.2

I.B. Pan-con: entire sample used for Au determination.
*Cu, Zn, Pb, Ag values obtained from Aqua Regia sol'n.

Copy to Ref

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

GEOCHEMICAL ANALYSIS CERTIFICATE Gold (MS)

Noranda Exploration Co. Ltd. PROJECT 9009-025 240 File # 90-4131 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
109444	6	147	3	8	.3	22	132	154	16.87	30	6	ND	3	5	.7	2	7	14	.14	.002	2	25	.39	13	.01	5	.62	.01	.02	1	21
128740	2	11	2	14	.1	4	10	245	4.02	9	5	ND	2	6	.2	2	3	23	.09	.027	4	3	1.35	62	.01	4	1.68	.03	.12	1	14
129548	2	11	12	20	.1	13	33	438	7.20	10	5	ND	1	12	.4	2	2	69	.16	.046	5	8	1.99	26	.01	2	2.25	.04	.10	1	16
129549	1	5	8	4	.1	1	2	41	1.20	3	5	ND	4	3	.3	3	2	1	.02	.007	7	3	.02	107	.01	5	.22	.05	.10	2	8
129550	6	10	6	20	.4	8	24	272	8.30	49	5	ND	2	4	.3	2	5	26	.02	.007	2	8	1.60	15	.01	2	1.50	.03	.09	1	35
129551	12	3	4	8	.1	2	1	71	.95	2	5	ND	4	5	.2	2	5	1	.05	.006	5	1	.05	102	.01	4	.22	.05	.08	1	6
129552	1	3770	7	60	.3	25	14	1293	6.71	2	5	ND	1	47	1.2	2	2	54	3.82	.028	4	15	2.15	58	.01	2	1.68	.01	.13	1	9
129553	1	43	6	22	.1	12	38	477	6.51	3	5	ND	1	7	1.1	2	2	112	.31	.034	2	2	2.12	45	.21	3	2.60	.05	.10	1	8
129554	1	18	2	28	.1	10	19	431	5.32	2	5	ND	2	1	.4	2	6	38	.08	.034	2	8	1.70	29	.01	2	1.70	.03	.10	1	18
129555	4	5	2	3	.2	7	60	145	4.37	13	5	ND	2	3	.3	2	2	7	.33	.034	2	1	.15	35	.01	6	.48	.01	.23	1	30
129556	3	5	2	13	.1	13	25	250	5.12	10	5	ND	2	2	.4	2	4	12	.06	.018	2	5	.99	34	.01	2	1.11	.01	.16	1	41
129557	3	9	2	3	.1	6	85	122	5.51	20	5	ND	2	4	.2	2	7	5	.38	.036	2	1	.11	16	.01	2	.38	.01	.19	1	130
129558	1	178	2	34	.3	44	23	825	7.30	3	5	ND	1	14	1.3	2	2	146	2.43	.030	3	58	3.40	17	.02	2	3.65	.02	.05	1	5
129559	1	7	6	5	.1	4	3	76	1.18	14	5	ND	3	15	.2	2	5	2	.11	.009	5	2	.05	43	.02	2	.25	.08	.02	1	6
129560	10	2	6	1	.1	11	1	30	.94	12	5	ND	3	5	.2	2	2	1	.01	.002	5	8	.01	320	.01	2	.20	.05	.08	1	10
129561	2	250	456	209	.3	9	9	1026	3.02	23	5	ND	2	20	2.3	2	2	55	.14	.020	3	19	1.15	71	.13	2	1.39	.03	.07	1	16
129562	20	476	16	45	1.6	12	57	379	9.19	40	5	ND	1	92	1.0	2	2	53	.73	.021	2	27	1.03	28	.14	4	1.48	.03	.03	2	16
129563	16	17	7	10	.9	5	21	90	3.42	46	5	ND	2	6	.3	2	7	13	.03	.020	3	2	.21	28	.01	2	.46	.03	.15	2	35
129564	1	138	2	113	.2	10	21	734	4.73	13	5	ND	1	26	1.1	2	2	131	.94	.030	2	25	2.38	29	.20	5	2.66	.12	.06	1	6
129565	1	8	6	59	.2	5	16	540	4.93	2	5	ND	1	22	.5	2	6	61	.53	.045	2	4	1.20	41	.19	3	1.25	.05	.02	2	2
129723	1	113	169	556	.2	10	19	1306	4.93	21	5	ND	1	45	6.9	2	4	123	1.00	.062	2	8	2.54	56	.23	10	2.96	.08	.10	1	1
129724	1	2123	11	30	.7	14	24	1175	1.13	3	5	ND	1	49	.6	2	2	19	2.78	.012	2	8	.31	133	.05	645	.67	.01	.01	1	3
129725	4	204	7	51	.9	71	105	330	9.43	14	5	ND	1	108	1.4	2	2	29	1.23	.048	2	30	.93	12	.14	4	1.49	.01	.02	1	13
129726	1	39	5	5	.1	6	2	99	.45	2	5	ND	1	26	.2	2	2	1	.40	.002	2	3	.11	1723	.01	9	.44	.02	.04	1	1
129727	2	2	6	76	.1	70	24	660	2.80	2	5	ND	1	75	.8	2	2	34	.83	.026	2	154	2.94	44	.19	3	2.74	.01	.01	1	1
129728	1	5	3	4	.1	5	4	82	2.37	2	5	ND	2	27	.2	2	2	5	.19	.005	2	4	.06	259	.02	3	.34	.01	.07	1	1
STANDARD C/AU-R	19	58	39	129	6.9	73	32	1051	3.96	41	21	7	39	53	19.2	15	20	56	.52	.093	38	57	.89	183	.07	38	1.89	.06	.14	11	510

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 ROCK P2 SILT AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 4 1990 **DATE REPORT MAILED:** Sept 11/90. **SIGNED BY** ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Copy to Mike/Rob

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
109443	1	117	11	82	.2	18	22	1288	4.56	8	5	ND	1	20	.4	2	2	68	.40	.035	11	31	1.27	189	.07	2	1.79	.02	.06	1	6

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 9009-005 GOLD File # 90-3897 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
109437	6	407	45	149	.3	31	49	1547	7.11	38	5	ND	1	50	.2	4	2	86	.83	.078	7	49	1.46	172	.07	4	2.62	.01	.05	1	7
128940	1	39	8	30	.1	10	10	449	2.29	2	5	ND	1	20	.2	2	2	33	.79	.035	7	17	.49	173	.03	2	.65	.01	.03	1	4
129627 KW	1	20	2	18	.1	3	4	298	1.32	2	7	ND	2	14	.2	2	4	11	.53	.030	8	7	.25	340	.01	2	.37	.01	.03	1	3
129628 KW	1	17	3	24	.1	7	6	293	1.46	4	6	ND	2	15	.2	2	2	23	.52	.020	6	13	.41	233	.04	3	.53	.01	.02	1	4
129629 KW	1	14	2	34	.1	8	7	350	1.46	2	9	ND	2	20	.2	2	5	20	.50	.019	7	15	.49	545	.04	3	.71	.01	.02	1	5
129630 KW	1	21	4	34	.1	9	7	384	1.50	2	6	ND	1	15	.2	2	3	22	.51	.021	6	16	.56	279	.04	2	.75	.01	.02	1	5
STANDARD C	18	60	40	131	6.9	72	31	1052	3.95	40	18	7	37	52	18.4	15	21	55	.51	.095	38	60	.87	180	.08	37	1.88	.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: P1 SILT P2 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 27 1990 **DATE REPORT MAILED:** Aug 30/90. **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
106976	1	(275)	3	30	1.1	189	86	265	4.60	13	5	ND	3	44	.2	2	2	56	1.42	.031	2	8	.56	34	.09	5	1.12	.06	.07	1	10
106977	3	25	2	19	.3	6	41	244	8.80	11	6	ND	3	10	.3	2	2	41	.06	.049	3	1	1.12	21	.01	3	1.54	.01	.21	1	58
106978	8	19	2	1	.4	2	77	32	5.87	8	5	ND	4	4	.2	2	3	3	.02	.007	2	1	.02	16	.01	3	.29	.02	.23	1	g380
106979	23	10	15	12	.9	6	30	31	10.32	9	5	ND	4	2	.2	2	5	4	.02	.006	2	3	.03	5	.01	4	.31	.02	.22	1	g330
106980	4	10	11	3	.2	7	110	70	10.49	15	5	ND	4	3	.2	2	2	5	.20	.024	2	1	.09	8	.01	4	.43	.01	.26	1	59
109441	1	(123)	4	39	.2	21	32	491	3.79	2	5	ND	2	102	.2	2	2	71	2.02	.059	2	7	1.42	14	.18	3	1.75	.01	.04	1	4
109649	21	1	2	1	.1	1	2	32	1.12	8	5	ND	2	6	.2	3	4	2	.02	.003	6	1	.01	259	.01	2	.19	.02	.12	1	2
109650	16	(193)	5	10	.2	12	8	109	5.50	2	5	ND	3	5	.2	2	2	24	.10	.010	3	36	.07	163	.01	3	.44	.01	.14	1	3
128691	1	7	2	105	.2	25	16	2059	4.89	22	7	ND	2	103	.3	2	2	90	14.30	.007	6	32	4.38	462	.01	2	.29	.04	.07	1	1
128692	2	97	52	16	.3	15	91	212	17.16	11	5	ND	4	2	.6	2	2	173	.02	.019	2	11	.85	14	.08	2	1.13	.01	.04	14	7
128693	40	14	11	11	.3	2	5	233	2.27	52	5	ND	2	5	.2	4	2	8	.29	.022	4	3	.25	97	.01	4	.38	.02	.14	1	1
128694	2	12	6	37	.2	11	47	371	6.50	3	5	ND	2	47	.2	2	2	34	.92	.062	2	5	.86	5	.22	2	1.19	.02	.03	1	6
128901	1	66	9	61	.3	57	27	431	4.50	2	5	ND	3	31	.2	2	2	62	.68	.059	2	100	1.87	24	.25	2	1.67	.05	.06	1	7
128902	1	77	12	18	.3	17	5	162	3.36	4	5	ND	2	51	.2	2	2	65	.73	.039	2	53	.53	31	.36	3	.79	.05	.06	1	1
128903	1	66	22	53	.4	41	12	352	3.65	2	5	ND	2	43	.2	2	2	75	.61	.037	2	84	1.81	17	.30	4	1.52	.04	.06	1	2
128905	13	(148)	37	80	.6	41	16	442	4.40	2	5	ND	2	51	.2	2	2	67	.63	.041	2	78	2.56	12	.26	2	2.00	.04	.03	1	1
128944 KW	1	1	2	3	.1	1	2	46	11.21	2	5	ND	5	9	.3	4	2	7	.03	.007	2	3	.05	546	.04	6	.30	.04	.13	5	1
128945 KW	1	(240)	6	19	.4	10	40	197	6.56	2	7	ND	3	72	.2	2	2	50	.80	.078	4	7	1.45	37	.22	2	1.83	.02	.07	1	8
128946 KW	2	12	2	1	.2	3	22	66	3.82	6	7	ND	4	3	.2	3	2	5	.03	.035	2	1	.03	42	.01	5	.30	.02	.20	1	1
129626 KW	5	97	10	114	.1	46	35	897	7.49	2	5	ND	3	5	.2	2	7	41	.05	.014	3	112	1.97	197	.01	4	2.48	.01	.15	1	8
STANDARD C/AU-R	19	58	41	133	7.2	72	32	1049	3.97	42	18	7	40	52	18.4	16	20	61	.59	.094	39	61	.90	187	.09	37	1.90	.06	.14	11	510

Quest for Noranda

NORANDA EXPLORATION COMPANY, LIMITED

GOLD PROPERTY

PROPERTY (Steep Cr. near Mare Cr.) ?

N.T.S. 104G/2

DATE Aug. 20/90

PROJECT ?

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
128901	Heavily FeOx stained, altered, siliceous, green-grey rx w/ diosem. Py (also Po ?) Elev 790m	4%	Chip	1.0m	1	66	9	61	.3	2	7	J. Morgan J. Robinson
128902	(Same as 901) Elev. 785m	4%	Chip	1.0m	1	77	12	18	.3	4	1	
903	(Same as 901 except w/ malachite) 780m	4%	Chip	1.0m	1	66	22	53	.4	2	2	
904	(Not taken – void)	—	—	—								
905	(Same as 901) Elev: 770m	4%	Chip	1.0m	13	148	37	80	.6	2	1	

NORANDA EXPLORATION COMPANY, LIMITED

GCI # 50575

N.T.S. 104 G/2

PROPERTY Koala west (GG + GOLD)

DATE Aug 19, 1980

ROCK SAMPLE REPORT

PROJECT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
128689 GG	Qtz vein cutting through granite 1% chalcopyrite in vein. boulder just large enough to sample GCI 50575	1	float		4	67	5	134	.1	2	5	B Fyke ↓
128691 GOLD ✓	Qtz vein specular hematite stringers, some limonite alteration strike 185° dip 78°E width 1 meter GCI 50575	~	Grab	1M	1	7	2	105	.2	22	1	
128692 GOLD ✓	specular hematite and chalcopyrite in a Biotite rich volcanic. 35cm × 25 × 15 GCI 50575	5	float		2	97	52	16	.3	11	7	
128694 GOLD ✓	silicic bleached lenses in Andesitic host. propolitic Alteration. slickensides present coated with epidote. chalcopyrite in Qtz flooded areas as well as host. zone x 2 meters wide GCI 50575	5	Grab		2	12	6	37	.2	3	6	

G – GEOCHEM A – ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

GCI # 50575

PROPERTY Koala ~~[redacted]~~ west (GOLD, GIG)

N.T.S. 104 G/2

DATE August 18, 1990

PROJECT:

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
128690 GIG	40cm diameter, sub-rounded, rusty weathering boulder. 5% pyrite in a 25% K-spar porphyritic trachyte with a fine grained grey matrix	5	~~float~~		3	39	21	20	.1	13	8	G.V.
128693 GOLD.	4% pyrite in a 20cm angular boulder in a silicically altered breccia with chert-like fragments	4	float		40	14	11	11	.3	52	1	G.V

G - GEOCHEM A - ASSAY

GOLD

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104G/2

PROPERTY SANTA MARINA / KOALA (WEST)

DATE Aug 18 90

ROCK SAMPLE REPORT

PROJECT:

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
109649 ✓	Composite grab of pyritic qtz-sericite veins from stockwork in granodiorite	5	grab	—	21	1	2	1	.1	8	2	MS.
109650 ✓	Composite grab from rubble zone close to source, dark rusty brown qtz-sericite vein in granodiorite	2	"	—	16	193	5	10	.2	2	3	"
128944 ✓	Local, angular float of brecciated qtz porphyry w spec. hematite in matrix, stringers	—	FLOAT	—	1	1	2	3	.1	2	1	"
128945 ✓	Very rusty, dark grey-grey matic dyke w 5-10% coarse disseminated py.	7	grab	—	1	240	6	17	.4	2	8	"
128946	Similar to above, sheared and bleached, subcrop	5	grab	—	2	12	2	1	.2	6	1	"

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104G/2

PROPERTY GOLD

DATE Aug 20/90

ROCK SAMPLE REPORT

PROJECT:

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
109441	Float from cliff above - silicified bedrock in qtz porphyry. - fine disem py.	5	FLOAT	—	1	123	4	39	.2	2	4	MS.

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 G/2

PROPERTY Koala West (Gold) DATE Aug 18, 1990

ROCK SAMPLE REPORT

PROJECT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
106976	Mineralized well rounded ~20cm float cobble w/ cm qtz veins containing py & cpy blebs	3	float		1	2757	3	30	1.1	13	10	E.G.
Aug 20/90												
129626	shear zone with minor quartz veining in granitic host strike 40° enhanced 10m	trace.	chip	1m	5	97	10	114	.1	2	8	C.S.

G = GEOCHEM A = ASSAY

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

Project Name & No.: GOLD - 229 | Geol.: R.B. | Date rec'd: SEP. 21 | LAB CODE: 9009-066

Material: 39 SOILS | Sheet: 1 of 2 | Date compl: OCT. 15

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

¤ Organic

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

Copy to Rob

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 this acid dissolution method.

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Tl %	V ppm	Zn ppm
81	SOIL 131520	5	0.2	3.24	12	220	0.9	2	0.72	0.6	46	11	20	58	3.02	0.45	19	11	0.82	523	2	0.07	13	0.07	11	72	0.16	99	78
82	131521	5	0.2	3.31	11	197	1.1	2	0.61	0.6	48	14	19	107	3.99	0.49	17	11	0.86	1089	1	0.14	14	0.08	11	65	0.17	118	99
83	131522	5	0.2	3.80	13	398	0.8	3	0.77	0.7	43	15	19	69	3.68	0.74	16	10	1.09	933	1	0.06	17	0.06	9	75	0.14	111	100
84	131523	5	0.2	3.84	11	228	0.7	2	0.71	0.5	42	12	22	50	3.62	0.58	14	11	0.98	635	1	0.07	15	0.08	9	72	0.18	109	91
85	SOIL 131524	5	0.2	3.99	15	552	0.9	2	0.92	0.6	48	15	16	67	3.89	0.88	17	12	1.14	903	1	0.08	16	0.08	12	76	0.14	108	99
86	SOIL 131525	5	0.2	4.26	15	326	1.3	2	0.40	0.3	68	12	11	30	4.44	0.80	25	15	0.54	1472	1	0.11	11	0.11	11	96	0.19	80	110
87	131526	5	0.2	7.71	15	840	1.2	2	0.22	0.5	38	18	4	32	5.22	1.66	15	31	0.95	1424	1	0.15	10	0.07	13	87	0.08	145	100
88	131527	5	0.2	7.58	12	551	1.3	2	0.10	0.5	62	12	3	19	4.50	2.14	28	11	0.30	1714	1	0.09	8	0.09	18	186	0.07	68	110
89	131528	5	0.2	6.26	11	1206	1.5	2	0.41	0.6	50	12	4	25	3.86	1.52	20	11	0.52	1372	1	0.07	9	0.07	15	153	0.11	75	80
90	SOIL 131529	5	0.2	4.25	12	1123	0.9	2	0.70	0.3	47	10	12	29	3.30	0.87	18	15	0.72	679	4	0.06	10	0.06	8	86	0.11	78	61
91	SOIL 131530	5	0.2	3.79	18	858	0.9	2	2.30	1.0	45	15	18	63	3.65	0.90	18	13	1.20	772	2	0.08	18	0.08	10	103	0.14	119	100
92	131531	5	0.2	5.55	2	847	1.3	2	0.16	0.2	54	6	9	13	3.83	1.16	24	15	0.28	1404	2	0.08	7	0.19	13	85	0.15	63	101
93	131532	5	0.4	6.76	4	956	2.0	2	0.54	0.4	62	11	29	39	3.94	1.21	31	22	0.53	2301	1	0.10	16	0.20	8	95	0.15	109	140
94	131533	5	0.2	3.18	10	525	0.8	2	0.66	0.3	42	10	14	45	3.01	0.69	16	8	0.72	725	1	0.08	10	0.06	8	65	0.12	76	64
95	SOIL 131534	5	0.4	3.08	7	163	0.4	2	0.50	0.2	31	4	15	12	2.42	0.47	12	7	0.30	503	1	0.06	5	0.15	8	61	0.30	85	37
96	SOIL 131535	5	0.2	2.03	3	108	0.3	2	0.22	0.3	31	1	14	7	1.53	0.26	14	4	0.12	122	1	0.12	2	0.05	10	31	0.35	54	34
97	131536	5	0.2	2.34	14	79	0.5	2	0.22	0.2	46	3	16	15	7.17	0.24	20	5	0.17	256	6	0.10	4	0.13	10	24	0.31	99	52
98	131537	5	0.2	2.64	6	152	0.3	2	0.40	0.2	25	2	15	6	1.70	0.40	11	4	0.18	164	1	0.07	2	0.08	9	47	0.35	79	31
99	131538	5	0.4	2.48	2	113	0.4	2	0.30	0.3	29	3	25	10	2.12	0.26	14	5	0.17	149	1	0.07	5	0.08	13	39	0.54	65	47
101	SOIL 131539	5	0.2	2.52	2	126	0.4	2	0.34	0.4	26	3	19	11	1.57	0.26	13	5	0.16	131	2	0.03	4	0.05	12	44	0.51	112	28
102	SOIL 131540	5	0.2	3.11	4	131	0.4	2	0.39	0.2	27	4	27	15	4.23	0.38	12	5	0.28	224	1	0.07	5	0.05	8	50	0.29	144	36
103	131541	26	0.2	3.23	7	206	0.3	2	0.34	0.2	23	4	11	18	2.93	0.54	9	7	0.31	389	1	0.06	4	0.07	4	50	0.12	86	41
104	131542	5	0.4	3.15	8	730	1.4	2	0.89	1.1	48	9	11	45	2.62	0.52	26	15	0.41	2618	114	0.08	10	0.18	5	72	0.11	64	136
105	131543	5	0.2	3.70	2	212	0.3	2	0.30	0.2	26	2	8	6	1.16	0.55	12	7	0.17	181	1	0.07	2	0.04	4	60	0.15	71	31
106	SOIL 131544	5	0.2	3.74	4	163	0.3	2	0.05	0.2	27	2	2	17	1.21	0.57	14	3	0.13	96	1	0.10	2	0.05	2	18	0.07	29	40
107	SOIL 131545	5	0.2	2.48	2	150	0.2	2	0.29	0.2	25	1	9	3	0.66	0.21	10	4	0.12	95	1	0.07	2	0.02	6	46	0.10	15	18
108	131546	5	0.2	2.67	2	165	0.2	2	0.43	0.3	25	2	13	5	1.14	0.37	10	4	0.14	131	1	0.04	2	0.02	2	54	0.25	66	23
109	131547	5	0.2	3.81	2	198	0.3	2	0.73	0.3	30	3	10	7	1.37	0.53	11	4	0.28	201	1	0.05	3	0.05	4	70	0.16	64	24
110	131548	5	0.2	3.26	2	189	0.3	2	0.79	0.3	28	3	12	6	1.40	0.49	10	4	0.19	241	1	0.04	2	0.03	6	65	0.20	70	25
111	SOIL 131549	5	0.2	2.93	15	181	0.4	2	0.36	0.2	29	5	17	21	5.54	0.37	12	5	0.24	186	5	0.03	4	0.05	8	46	0.26	151	35
112	SOIL 131550	5	0.4	2.37	4	166	0.3	2	0.22	0.3	25	2	10	7	0.95	0.45	11	4	0.13	91	7	0.11	3	0.13	5	29	0.10	40	26
113	131552	5	0.8	2.70	9	120	0.3	2	0.50	0.2	27	5	16	17	3.23	0.20	9	4	0.29	208	1	0.06	4	0.06	6	51	0.19	128	38
114	131553	5	0.4	3.50	13	161	0.5	2	0.59	0.3	29	5	17	27	4.15	0.37	10	7	0.35	328	1	0.05	5	0.10	7	61	0.23	135	49
115	131554	5	0.4	3.07	13	178	0.4	2	0.59	0.2	32	8	19	33	3.77	0.32	10	8	0.68	338	1	0.05	10	0.07	5	64	0.17	113	55
116	SOIL 131555	5	0.2	4.65	16	378	0.4	2	0.43	0.2	26	6	21	17	4.70	0.60	9	7	0.23	193	2	0.09	9	0.06	7	82	0.15	189	41

SCALING OF

T.T. No.	SAMF		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	C pp...	Fe	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
117	SOIL	131556	5	0.2	2.73	12	135	0.4	2	0.67	0.2	28	6	20	24	3.65	0.26	9	7	0.47	278	1	0.04	6	0.05	5	68	0.17	113	46
118		131557	6	0.4	2.90	23	166	0.4	2	0.53	0.2	29	7	21	21	4.74	0.28	10	6	0.49	456	1	0.06	8	0.15	9	56	0.20	163	60
119		131558	5	0.4	2.25	9	99	0.2	2	0.45	0.2	27	3	16	14	2.36	0.18	10	3	0.20	139	1	0.07	3	0.05	8	52	0.22	103	25
120	SOIL	131559	6	0.2	2.66	8	163	0.3	2	0.51	0.2	27	5	21	42	3.88	0.18	10	3	0.26	196	1	0.03	8	0.10	8	59	0.20	138	48

ACME ANA ICAL LABORATORIES LTD. 852 E. HASTINGS ST. V. OUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(6 53-1716

GEOCHEMICAL ANALYSIS CERTIFICATE Gold (RG)

Noranda Exploration Co. Ltd. PROJECT 9009-066 229 File # 90-4773

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
130863	3	210	22	9	.8	8	10	746	5.14	166	5	ND	1	121	1.5	2	7	28	5.60	.176	6	1	.16	25	.01	2	.36	.05	.15	1	68
130864	2	138	22	42	.1	14	26	1421	7.13	94	5	ND	1	146	1.6	2	3	48	5.87	.223	8	1	1.87	24	.01	2	.53	.02	.29	1	10
130865	12	87	28	11	.4	18	31	957	6.38	31	5	ND	1	148	1.8	2	6	35	6.46	.254	5	2	.17	26	.01	11	.78	.02	.40	2	38
131551	2	5067	2	38	1.7	24	11	377	2.62	6	5	ND	1	100	1.6	2	2	51	1.29	.027	2	47	.92	54	.18	2	1.54	.01	.01	2	8

Sheet

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: SEP 24 1990 DATE REPORT MAILED: Sept 29/90 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

) Soil Au+NL-ICP)

Rx Au+30ICP Acme

Sheet 2 of 3

District

Lab Code 9009-066

9009-066

39 soil
4 rx

RECORD OF SAMPLE TRANSMITTAL

Date Shipped: Sept 20/90

Date Received: Sept 21 '90

Shipped Via: Greyhound

No. of Cartons: 2

No. of Samples: 43

Geologist: R. Baerg

Date: Sept 18/90

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

MATERIAL:
- [x] SOIL
- [ ] SILT
- [x] ROCK

Project Gold No. 229

SAMPLE NOS./COORDS. FROM/LINE	SAMPLE NOS./COORDS. TO/STATION	N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS. FROM/LINE	SAMPLE NOS./COORDS. TO/STATION	N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
13/520	13/550	(Soil 31)							
13/551		(Rock 1)							
13/552	13/559	(Soil 8)							
130863	130865	(Rock 3)							

CBC 229
SOIL ~~9009-066~~
CBC 229
Soil 9009-066

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag) [ ]

(Cu, Pb, Zn, Mo, Ag) +___+___ [ ]

(Cu, Pb, Zn, Mo, Ag) + AS NOTED [ ]

SPECIAL INSTRUCTIONS OR REMARKS:
30 element ICP
& Au by AA.

RESULTS TO: R. Baerg
Fr. George

15824

SEND IN BOX

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Gold

N.T.S. 104/G

DATE Sept. 18/90

PROJECT

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
31551	(grab) strong epidote alt. w andesite host w <3% cpy, 1% py, str. <4 si/ boulder (Hos) Loc. 430m		Grab	Talus								AV

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 I 62

PROPERTY Santa Marina (Gold)

DATE Sept 18, 90

ROCK SAMPLE REPORT

PROJECT 236

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
30213	- 150 metres, 4450 ft el	<1	grab	~								IRP
	- fine grained med grn to grey volcanic rock; slightly porphyritic											
	- felsic flow small hematite stained patch within outcrop											

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 1046/2

PROPERTY Lucifer

DATE Sept 19/90

ROCK SAMPLE REPORT

PROJECT 234

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
30863	cc-py-si alt. slst, 5% dissem. and fract vein. py; in creek valley bottom. elev 2740'	5	grab	float								RB
30864	as for 130863, elev 3010'	5	grab	float								
30865	as for 130863, increased silicification, 200m south of 130864	5	grab	float								

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

Copy to Kor

RECEIVED
OCT 22 1990

Project Name & No.: GOLD – 229 | Geol.: R.B. | Date rec'd: SEP. 19 | LAB CODE: 9009-049
Material: 2 SILTS & 29 SOILS | Sheet: 1 of 1 | Date compl: OCT. 16
Remarks: * Sample screened @ –35 MESH (0.5 mm).
¤ Organic

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, La, Li are rarely dissolved completely from geological materials with this acid dissolution method.

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
2	SILT 82226	5	0.2	3.83	38	680	1.4	2	0.84	0.3	55	20	19	52	3.79	0.86	21	21	0.99	1523	1	0.08	31	0.12	2	79	0.10	100	142
3	SILT 82227	5	0.2	4.56	24	833	1.3	2	0.66	0.5	49	17	10	45	3.32	1.22	23	92	0.97	2343	1	0.06	26	0.10	5	61	0.11	103	167
4	SOIL 131467	5	0.6	3.58	20	762	0.6	2	0.12	0.2	37	6	18	18	1.90	0.58	17	12	0.28	284	1	0.07	7	0.15	10	182	0.38	111	50
5	131468	5	3.8	4.60	21	334	1.0	2	0.30	0.2	60	14	35	39	5.26	0.53	26	13	0.71	766	4	0.06	23	0.21	9	41	0.29	118	94
6	SOIL 131469	5	3.4	3.44	14	289	0.6	2	0.10	0.2	33	5	23	25	2.52	0.47	15	9	0.23	175	2	0.13	7	0.22	8	39	0.30	87	59
7	SOIL 131470	5	0.8	6.00	17	144	1.9	2	0.15	0.2	75	9	31	33	4.11	0.29	29	12	0.42	494	2	0.09	20	0.11	9	18	0.11	53	125
8	131471	5	0.4	3.07	11	213	0.8	2	0.09	0.6	42	4	24	12	4.65	0.34	19	8	0.23	211	2	0.06	6	0.12	11	35	0.37	122	57
9	131472	5	0.6	4.17	21	291	0.8	2	0.08	0.4	35	12	25	30	5.74	0.58	15	12	0.65	888	2	0.04	13	0.13	17	35	0.22	114	105
10	131473	5	0.4	3.72	33	271	1.5	3	0.32	0.2	58	6	37	102	3.59	0.31	25	97	0.33	147	2	0.06	12	0.27	10	38	0.12	94	60
11	SOIL 131474	5	0.2	4.89	18	194	0.9	2	0.08	0.2	33	8	40	39	6.58	0.35	17	20	0.53	205	2	0.04	13	0.08	8	32	0.21	144	80
12	SOIL 131475	5	0.2	4.53	17	376	2.3	2	0.72	1.7	124	32	26	1421	3.84	0.29	34	12	0.38	16519	6	0.09	21	0.70	8	31	0.13	68	104
13	131476	5	0.2	3.36	19	193	0.4	2	0.15	0.2	27	6	35	31	6.37	0.34	12	11	0.44	246	1	0.03	10	0.16	9	33	0.27	150	73
14	131482	5	0.2	4.18	10	125	0.4	2	0.14	0.2	31	6	27	15	3.59	0.31	14	11	0.59	157	1	0.04	9	0.06	12	32	0.39	189	50
15	131483	5	0.2	3.83	14	226	0.5	2	0.11	0.2	29	8	26	22	5.06	0.41	13	9	0.62	310	1	0.04	12	0.09	9	29	0.24	211	61
16	SOIL 131484	5	0.4	3.75	16	186	0.6	2	0.18	0.2	29	12	49	37	7.01	0.62	12	11	0.72	851	1	0.03	15	0.38	9	30	0.28	193	88
17	SOIL 131485	5	0.4	4.04	15	230	0.7	2	0.16	0.2	38	8	30	51	5.19	0.57	18	12	0.75	317	2	0.04	17	0.20	8	22	0.19	146	83
18	131486	5	0.2	3.53	8	252	0.5	2	0.34	0.2	29	6	22	21	2.19	0.62	13	9	0.47	317	1	0.06	7	0.14	6	39	0.23	147	51
19	131487	5	0.2	3.73	5	221	0.4	2	0.21	0.3	33	4	34	24	2.01	0.86	15	7	0.49	134	1	0.04	8	0.06	8	41	0.32	149	39
20	131488	5	0.2	3.04	12	183	0.5	2	0.18	0.2	30	5	27	45	3.07	0.44	15	8	0.38	192	1	0.08	10	0.20	7	29	0.26	124	51
21	SOIL 131489	5	0.2	3.45	18	209	0.5	2	0.28	0.2	33	8	40	22	3.77	0.66	15	8	0.61	215	2	0.03	12	0.10	6	36	0.22	180	50
22	SOIL 131490	5	0.2	3.45	12	511	0.4	2	0.14	0.2	31	6	23	25	5.18	0.48	14	10	0.42	381	1	0.05	10	0.08	7	32	0.23	164	62
23	131491	5	0.2	3.11	3	156	0.3	2	0.22	0.2	40	3	35	10	1.31	0.30	18	5	0.28	140	1	0.05	3	0.05	4	45	0.32	102	33
24	131492	5	0.2	3.25	17	425	0.4	2	0.18	0.2	32	5	23	20	2.09	0.54	15	6	0.24	141	1	0.07	6	0.08	10	43	0.24	121	44
25	131493	5	0.2	3.14	10	533	0.5	2	0.23	0.2	36	5	16	19	2.76	0.65	17	7	0.37	272	1	0.06	6	0.10	7	43	0.20	144	58
26	SOIL 131494	5	0.8	3.35	25	352	0.4	2	0.13	0.2	33	9	14	20	2.82	0.61	15	4	0.33	277	1	0.03	13	0.11	5	23	0.20	124	54
27	SOIL 131495	5	0.4	5.31	29	860	1.0	2	0.09	0.2	54	10	8	41	7.95	1.38	27	93	0.43	857	1	0.04	11	0.14	6	90	0.10	114	97
28	131496	5	0.2	2.69	14	644	0.4	2	0.26	0.2	33	6	9	22	2.41	0.68	13	12	0.24	849	1	0.05	7	0.10	5	30	0.14	83	70
29	131497	5	0.2	2.86	8	234	0.3	2	0.18	0.2	37	5	19	10	2.37	0.34	16	13	0.23	229	1	0.05	5	0.05	4	40	0.29	115	51
30	131498	180	0.6	3.88	24	930	0.8	3	0.35	0.2	41	7	26	37	5.11	0.34	17	14	0.38	273	1	0.05	8	0.11	18	57	0.23	169	62
31	SOIL 131499	5	0.4	2.99	13	240	0.6	2	0.29	0.2	38	6	32	46	2.96	0.68	19	7	0.21	211	2	0.03	7	0.11	8	67	0.43	166	53
32	SOIL 131500	30	0.4	1.85	15	237	0.3	2	0.38	0.2	25	4	18	31	2.37	0.52	10	4	0.17	251	1	0.02	6	0.18	5	40	0.16	98	43
33	SOIL 131501	10	0.8	3.13	26	375	0.5	2	0.22	0.2	34	5	15	49	3.48	0.68	14	25	0.29	255	2	0.04	6	0.13	6	54	0.13	117	45

18 Ca Ag Cu

NORANDA EXPLORATION COMPANY, LIMITED

Au NL ICP

Sheet 1 of 1

entral Cord. District

Lab Code 9009-049

30 Soil
2 Silt

RECORD OF SAMPLE TRANSMITTAL

Date Shipped: Sept 15/90

Date Received: Sept 19 1990

Shipped Via: Greyhound.

No. of Cartons: 1

No. of Samples: 32

Geologist: R. Baerg.

Date: Sept 15/90

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

MATERIAL:
- [x] SOIL
- [x] SILT
- [ ] ROCK

oject 29 Gold No. 29

SAMPLE NOS./COORDS. FROM/LINE	SAMPLE NOS./COORDS. TO/STATION	N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS. FROM/LINE	SAMPLE NOS./COORDS. TO/STATION	N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
82226	82227	(Silt 2)	✓						
81472	81501	(Soil 30)	✓						

CBC 229
Soil
Silt 9009-049

CBC 229
SOIL 9009-

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag) ☐
(Cu, Pb, Zn, Mo, Ag) +___+___ ☐
(Cu, Pb, Zn, Mo, Ag) + AS NOTED ☐

SPECIAL INSTRUCTIONS OR REMARKS:
30 element ICP + Au by AA

RESULTS TO: R Baerg
Pr. George

NORANDA VANCOUVER LABORATORY

Copy to Rob

Gold

Geochemical Analysis

Project Name & No.: SANTA MARINA (GIG)-268 Geol.: R.B.
Material: 47 SOILS, 5 SILTS Sheet: 1 of 2
Remarks: * Sample screened @ -35 MESH (0.5 mm).
¤ Organic

Date rec'd: SEP 14
Date comp SEP 26

LAB CODE : 9009-030

RECEIVED
OCT 11 1990

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 this acid dissolution method.

T.T. No.	SAMPLE No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
2	SOIL	130876	5	0.4	3.55	2	182	0.5	2	0.43	0.2	24	6	31	43	4.47	0.38	13	9	0.29	388	1	0.03	8	0.10	7	52	0.18	107	48
3		130877 *	5	0.4	2.40	2	257	0.3	2	0.32	0.2	18	3	24	26	2.93	0.59	8	7	0.22	263	1	0.04	4	0.15	6	47	0.09	75	51
4		130878	5	0.4	2.17	2	214	0.3	2	0.36	0.2	24	3	20	43	2.09	0.54	11	5	0.11	182	1	0.03	4	0.09	7	51	0.14	77	48
5		130879	5	0.4	2.28	7	194	0.3	2	0.46	0.2	21	2	24	25	2.60	0.55	9	5	0.11	165	1	0.02	3	0.08	8	59	0.23	136	30
6	SOIL	130880	5	0.6	2.34	2	312	0.3	2	0.26	0.2	15	3	20	61	2.14	0.67	8	5	0.10	133	1	0.03	7	0.09	8	39	0.11	60	47
7	SOIL	130881	5	0.6	2.76	2	338	0.3	2	0.40	0.2	26	4	18	37	3.13	0.54	13	8	0.22	340	1	0.06	7	0.14	8	49	0.16	86	48
8		130882	5	0.4	2.30	5	149	0.3	2	0.41	0.2	22	4	17	24	3.76	0.38	9	7	0.30	303	1	0.03	5	0.28	8	41	0.12	86	47
9		130883	5	0.2	4.13	2	191	0.5	2	0.46	0.2	37	18	15	24	2.98	0.35	11	12	0.35	1946	2	0.04	7	0.09	10	43	0.09	64	65
10		130926	5	0.2	1.88	8	123	0.2	2	0.20	0.2	25	2	12	45	1.73	0.31	11	6	0.10	110	2	0.02	3	0.13	8	26	0.07	41	55
11	SOIL	130927	40	0.4	4.83	(54)	402	0.5	2	0.23	0.2	39	9	30	62	5.49	1.06	18	19	0.34	1005	(101)	0.05	12	0.10	(213)	59	0.13	101	88
12	SOIL	130928	5	0.2	2.86	2	240	0.4	2	0.42	0.2	30	4	27	23	2.43	0.66	12	4	0.15	188	1	0.03	5	0.08	9	58	0.20	111	38
13		130929	5	0.4	2.98	2	234	0.4	2	0.52	0.2	34	3	25	28	2.09	0.62	13	4	0.17	191	1	0.03	4	0.10	12	66	0.22	92	32
14		130930	5	0.6	3.30	6	146	0.4	2	0.49	0.2	27	5	22	34	4.63	0.27	9	7	0.41	303	1	0.03	8	0.13	9	51	0.16	107	55
15		130931	5	0.4	2.64	5	114	0.3	2	0.39	0.2	26	4	22	30	5.14	0.25	9	4	0.31	230	1	0.03	7	0.12	8	44	0.17	134	56
16	SOIL	130932	5	0.4	2.49	7	134	0.3	2	0.53	0.2	27	4	17	27	3.11	0.38	9	4	0.16	223	1	0.03	6	0.12	10	71	0.29	140	42
17	SOIL	130933	5	0.4	1.73	3	132	0.2	2	0.47	0.2	23	4	15	15	1.81	0.28	8	3	0.11	156	1	0.03	3	0.05	6	57	0.15	80	44
18		130935	25	0.4	2.64	3	128	0.3	2	0.49	0.2	30	4	22	18	2.77	0.24	10	5	0.22	160	1	0.04	5	0.05	13	62	0.18	115	41
19		130936	5	0.4	2.97	4	204	0.4	2	0.70	0.2	33	4	18	33	3.39	0.70	11	4	0.17	265	1	0.03	5	0.15	12	80	0.24	128	37
20		130937	5	0.2	4.46	2	310	0.4	2	0.29	0.2	37	3	20	13	2.87	0.71	16	6	0.17	279	2	0.04	3	0.06	12	65	0.22	114	72
21	SOIL	130938	5	0.2	3.95	4	261	0.3	2	0.51	0.2	41	7	26	25	3.62	0.64	17	13	0.30	537	3	0.04	7	0.08	14	90	0.19	122	65
22	SOIL	130939	5	0.2	2.59	6	178	0.4	2	0.48	0.2	33	3	23	33	3.12	0.49	12	5	0.16	250	1	0.04	4	0.20	8	62	0.21	108	49
23		131251	5	0.4	2.66	5	(700)	0.9	2	0.63	0.2	65	8	23	32	2.53	0.62	22	8	0.55	855	1	0.07	10	0.04	10	57	0.08	42	60
24		131252	5	0.4	4.46	2	522	1.5	3	0.75	0.2	72	21	21	(238)	4.59	0.82	25	15	1.19	1658	1	0.08	18	0.08	10	83	0.12	105	99
25		131253	5	0.4	2.90	7	107	0.8	3	0.24	0.2	51	4	23	30	3.36	0.25	19	10	0.27	198	1	0.11	7	0.16	12	26	0.35	80	50
26	SOIL	131254	5	0.2	3.22	7	206	1.2	6	0.47	0.2	64	13	20	82	3.67	0.48	20	13	0.75	715	1	0.14	14	0.09	15	42	0.16	82	86
27	SOIL	131255	5	0.2	3.24	7	168	1.7	3	0.36	0.2	78	8	17	37	4.09	0.30	26	13	0.44	699	1	0.13	9	0.09	15	31	0.20	58	91
28		131256	5	0.2	3.75	5	246	1.5	2	0.48	0.2	82	12	22	(104)	4.28	0.52	29	15	0.76	785	1	0.12	15	0.11	17	45	0.22	85	103
29		131257	5	0.2	2.81	5	381	0.8	2	0.53	0.2	55	11	17	73	3.06	0.58	18	9	0.65	763	1	0.06	10	0.05	10	45	0.10	63	58
30		131258	5	0.2	3.01	6	313	0.8	2	0.54	0.2	61	11	23	65	3.06	0.54	17	10	0.66	793	1	0.07	11	0.06	12	51	0.11	64	67
31	SOIL	131259	5	0.2	3.87	3	275	1.1	2	0.49	0.2	57	15	25	(99)	4.02	0.59	25	13	0.80	875	2	0.08	15	0.10	18	51	0.17	91	90
32	SOIL	131260	5	0.2	2.72	2	431	0.6	2	0.65	0.2	37	12	17	78	2.78	0.59	16	8	0.73	757	1	0.05	10	0.04	10	49	0.08	62	43
33		131261	5	0.2	2.40	7	437	0.5	2	0.77	0.2	39	12	16	73	2.98	0.51	15	8	0.72	649	1	0.05	11	0.04	11	58	0.09	73	43
34		131262	5	0.4	2.92	2	479	0.6	2	0.75	0.2	38	17	21	68	3.75	0.64	16	10	0.94	915	1	0.05	13	0.05	10	56	0.11	89	55
35		131263	5	0.4	3.55	2	182	1.0	3	0.29	0.2	68	7	19	60	4.05	0.48	22	12	0.54	527	1	0.13	11	0.09	(221)	26	0.18	63	90
36	SOIL	131264	5	0.2	3.61	3	177	0.9	6	0.35	0.2	47	8	25	35	3.91	0.48	21	12	0.57	369	1	0.17	12	0.12	16	34	0.26	84	81

T.T. No.	S/	E J.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	C ppi.	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Tl %	V ppm	Zn ppm
37	SOIL	131265	5	0.2	3.63	2	309	1.0	3	0.35	0.2	53	10	18	3[illegible]	3.55	0.61	23	12	0.66	503	1	0.09	12	0.08	8	31	0.15	71	88
38		131266	5	0.4	3.37	2	208	1.0	4	0.28	0.2	52	8	17	35	3.66	0.51	24	11	0.54	542	1	0.12	11	0.08	8	27	0.17	62	76
39		131267	5	0.4	3.19	5	111	0.8	3	0.21	0.2	48	6	17	26	3.16	0.33	22	9	0.31	316	1	0.09	6	0.07	15	17	0.17	55	55
40		131268	5	0.2	2.17	2	86	0.5	4	0.11	0.2	31	3	18	15	2.43	0.19	15	5	0.10	100	1	0.06	5	0.14	13	13	0.39	67	45
41	SOIL	131269	5	0.2	2.58	2	266	0.3	2	0.30	0.2	42	8	17	28	2.14	0.58	15	8	0.47	453	1	0.03	9	0.03	10	30	0.06	41	43
42	SOIL	131270	5	0.2	1.58	2	309	0.3	2	0.41	0.2	32	5	13	16	1.54	0.41	11	4	0.29	340	1	0.03	5	0.03	7	30	0.05	29	25
43		131271	5	0.2	1.69	2	376	0.4	2	0.41	0.2	34	6	11	17	1.81	0.44	12	5	0.38	514	1	0.03	6	0.03	3	30	0.05	31	27
44		131272	5	0.4	3.15	3	279	0.7	2	1.00	0.5	44	13	20	48	3.45	0.59	15	9	0.72	782	1	0.05	15	0.08	10	94	0.16	110	96
45		131273	5	0.4	3.48	10	301	1.6	2	0.34	0.2	67	8	19	31	3.62	0.43	27	12	0.42	844	1	0.14	11	0.09	16	28	0.16	72	78
46	SOIL	131274	5	0.4	3.93	[illegible]	[illegible]	2.0	3	0.50	0.2	86	8	16	31	3.50	0.53	37	15	0.47	655	1	0.14	13	0.13	19	31	0.16	70	133
47	SOIL	131275	5	0.4	3.49	9	365	1.6	2	0.48	0.2	81	8	17	28	3.54	0.60	32	13	0.53	838	1	0.11	12	0.07	12	44	0.17	67	102
48	SOIL	131276	5	0.2	3.22	3	241	0.8	4	0.54	0.2	59	8	18	31	3.15	0.47	21	11	0.64	387	1	0.09	12	0.06	13	54	0.16	82	80
49	SILT	130951	5	0.2	3.04	2	457	0.6	2	0.86	0.2	46	9	20	33	2.86	0.55	15	10	0.55	816	1	0.05	11	0.08	12	78	0.11	81	79
51		130952 •	5	0.4	3.20	7	547	0.6	2	1.19	0.2	41	12	22	38	2.77	0.57	18	12	0.66	1004	2	0.05	14	0.08	12	105	0.10	84	118
52	SILT	130953 •	5	0.4	3.12	2	347	0.7	2	1.25	0.2	40	9	12	26	2.71	0.55	14	13	0.55	984	1	0.05	10	0.07	8	127	0.10	82	116
53	SILT	130954	5	0.6	3.79	6	554	0.6	2	1.05	0.2	44	10	9	42	3.55	0.85	16	12	0.47	1148	4	0.05	7	0.08	14	98	0.12	101	100
54	SILT	130955 •	5	0.4	2.56	6	482	0.5	2	1.03	0.2	31	7	9	21	2.44	0.60	11	13	0.51	1240	3	0.05	8	0.04	15	86	0.10	73	111

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

SM-Gy (Rb) 6 of 6

GEOCHEMICAL ANALYSIS CERTIFICATE

Noranda Exploration Co. Ltd. PROJECT 9009-039 236 File # 90-4457

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
130769	1	38	5	29	.1	6	129	254	18.29	127	5	ND	2	5	.9	2	3	79	.12	.018	4	1	.48	137	.02	2	1.15	.02	.04	4	47
130770	1	31521	2	38	4.4	4	10	620	6.81	468	5	ND	1	207	2.8	2	2	74	.35	.022	2	5	1.13	16	.05	2	1.31	.01	.02	1	990
130771	2	46	2	9	.2	4	6	133	4.03	25	5	ND	1	9	.2	2	2	27	.05	.034	2	4	.67	39	.01	2	.77	.04	.08	1	34
130772	1	4918	66	2	4.2	8	2	87	1.12	79	5	ND	1	9	.6	2	27	1	.03	.005	2	5	.04	116	.01	2	.15	.02	.05	1	62
130776	1	31709	2	22	4.5	9	6	405	4.93	18	5	.4	1	3	2.0	2	2	24	.23	.019	2	8	.67	46	.01	2	.83	.01	.06	1	4140
130777	1	5698	2	58	.5	13	26	672	6.68	13	5	ND	1	24	.6	2	2	71	.65	.048	2	26	1.68	20	.13	2	2.02	.03	.05	1	22
130976	1	108	2	8	.1	5	2	152	.97	10	5	ND	4	4	.2	2	2	2	.06	.003	10	5	.01	52	.01	2	.20	.04	.06	1	9
STANDARD C	18	58	38	131	6.7	69	31	1048	3.97	35	20	7	38	53	19.0	15	20	55	.52	.091	37	57	.90	180	.09	34	1.90	.06	.14	13	-

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: SEP 14 1990 **DATE REPORT MAILED:** Sept 19/90 **SIGNED BY.** D. Toye .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Copy to Rob

Rob (Rec'd)

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 104 G/2

PROPERTY Gig (Santa Marina) Gold

DATE Sept 6/90

ROCK SAMPLE REPORT

PROJECT:

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
130776	grab. very angular boulders	3-5	grab	talus	1	31709	2	22	4.5	18	4140	A.V.
✓	talus. epidote rich andesite ✓											
✓	w strong carb. alt. qtz veins											
	w cpy, mal. st. 4 boulders											
	loc (83m) (5lb–100lbs)											
130777	grab (float) glacial till (local)	>3	grab	float	1	5698	2	68	0.5	13	22	
✓	strongly sil andesite >3% cpy											
	loc (800m) 3 boulders. (~10lbs)											

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 1046/2

PROPERTY Gig (Santa Marina) DATE Sept 6/90

ROCK SAMPLE REPORT

PROJECT:

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐ Mo	G☐ A☐ Cu	G☐ A☐ Pb	G☐ A☐ Zn	G☐ A☐ Ag	G☐ A☐ As	G☐ A☐ Au	SAMPLED BY
130769 ✓	Andesite - hem breccia, 10-15% hem +/- pyrobitumen?; andesite is carbonate altered.	tr	grab	talus	1	38	5	29	0.1	127	47	RB
130770 ✓	qtz-cc-cpy-mal veins in chl-ep alt. andesite, veins to 5cm, trend 110-120°	1-2	grab	—	1	31521	2	38	4	468	990	
130771 ✓	intense si-sc-ka-py altered rock, most py leached out, 1-2% remains	1-2	grab		2	46	2	9	0.2	25	34	
130772 ✓	angular qtz-cpx-mal cobble 15cm x 15cm x 3cm.	1	grab	float	1	4918	64	2	4.2	79	62	

Demon 2

Gold 1
7309

Gold 2
7310

Gold 3
7311

Gold 3
7066

Gold 4
7067

Granite

Phyllite
Sediments

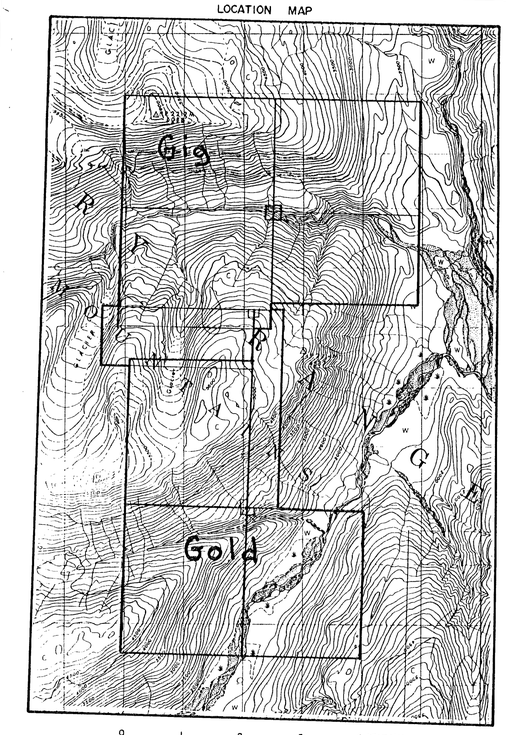
GOLD

I.P. 2214M
1537

SCALE 1:10,000

GLACIER

LOCATION MAP



0 1 2 3 4 kilometres
SCALE 1:50,000

1990 ROCK SAMPLES

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Sb ppm	Ba ppm	Au ppb
102401	1	12	4	19	0.2	2	0.2	272	6
102402	1	7	4	19	0.2	2	0.2	372	6
102403	1	1	3	60	0.1	2	0.2	43	3
102404	1	4	3	16	0.1	2	0.2	43	3
102405	1	1	2	55	0.1	2	0.2	196	3
102406	1	2	2	55	0.1	2	0.2	196	3
102407	1	2	2	55	0.1	2	0.2	196	3
106976	1	2757	3	30	1.1	11	0.2	2	34
106977	1	1	3	39	0.1	2	0.2	2	10
106978	3	19	2	1	0.4	8	0.2	2	36
109437	1	20	2	1	0.1	2	0.2	2	380
109438	1	1	2	1	0.1	2	0.2	2	330
109441	1	1	2	1	0.2	2	0.2	2	8
109444	1	147	3	1	0.2	15	0.2	2	59
109649	21	1	2	1	0.1	30	0.2	2	6
109650	1	19	2	1	0.1	2	0.2	139	21
128691	1	1	2	1	0.1	2	0.2	2	2
128692	1	7	2	365	0.2	22	0.4	2	2
128693	1	97	2	16	0.1	2	0.2	2	2
128694	40	14	11	11	0.2	52	0.2	4	95
128695	1	1	2	1	0.1	2	0.2	2	2
128696	1	66	2	14	0.1	3	0.2	2	62
128901	1	66	2	14	0.1	3	0.2	2	62
128902	1	66	2	14	0.1	3	0.2	2	62
128903	1	66	2	14	0.1	3	0.2	2	62
128904	13	188	2	97	0.4	2	0.2	2	32
128905	1	1	2	1	0.1	2	0.2	2	2
128906	1	66	2	14	0.1	3	0.2	2	62
128907	1	66	2	14	0.1	3	0.2	2	62
128908	1	66	2	14	0.1	3	0.2	2	62
128909	1	66	2	14	0.1	3	0.2	2	62
128910	1	66	2	14	0.1	3	0.2	2	62
129401	1	66	2	53	0.4	2	0.2	2	31
129402	1	66	2	53	0.4	2	0.2	2	31
129403	1	66	2	53	0.4	2	0.2	2	31
129404	1	66	2	53	0.4	2	0.2	2	31
129405	1	66	2	53	0.4	2	0.2	2	31
129406	1	66	2	53	0.4	2	0.2	2	31
129407	1	66	2	53	0.4	2	0.2	2	31
129408	1	66	2	53	0.4	2	0.2	2	31
129409	1	66	2	53	0.4	2	0.2	2	31
129410	1	66	2	53	0.4	2	0.2	2	31
129411	1	66	2	53	0.4	2	0.2	2	31
129412	1	66	2	53	0.4	2	0.2	2	31
129413	1	66	2	53	0.4	2	0.2	2	31
129414	1	66	2	53	0.4	2	0.2	2	31
129415	1	66	2	53	0.4	2	0.2	2	31
129416	1	66	2	53	0.4	2	0.2	2	31
129417	1	66	2	53	0.4	2	0.2	2	31
129418	1	66	2	53	0.4	2	0.2	2	31
129419	1	66	2	53	0.4	2	0.2	2	31
129420	1	66	2	53	0.4	2	0.2	2	31
129421	1	66	2	53	0.4	2	0.2	2	31
129422	1	66	2	53	0.4	2	0.2	2	31
129423	1	66	2	53	0.4	2	0.2	2	31
129424	1	66	2	53	0.4	2	0.2	2	31
129425	1	66	2	53	0.4	2	0.2	2	31
129426	1	66	2	53	0.4	2	0.2	2	31
129427	1	66	2	53	0.4	2	0.2	2	31
129428	1	66	2	53	0.4	2	0.2	2	31
129429	1	66	2	53	0.4	2	0.2	2	31
129430	1	66	2	53	0.4	2	0.2	2	31
129431	1	66	2	53	0.4	2	0.2	2	31
129432	1	66	2	53	0.4	2	0.2	2	31
129433	1	66	2	53	0.4	2	0.2	2	31
129434	1	66	2	53	0.4	2	0.2	2	31
129435	1	66	2	53	0.4	2	0.2	2	31
129436	1	66	2	53	0.4	2	0.2	2	31
129437	1	66	2	53	0.4	2	0.2	2	31
129438	1	66	2	53	0.4	2	0.2	2	31
129439	1	66	2	53	0.4	2	0.2	2	31
129440	1	66	2	53	0.4	2	0.2	2	31
129441	1	66	2	53	0.4	2	0.2	2	31
129442	1	66	2	53	0.4	2	0.2	2	31
129443	1	66	2	53	0.4	2	0.2	2	31
129444	1	66	2	53	0.4	2	0.2	2	31
129445	1	66	2	53	0.4	2	0.2	2	31
129446	1	66	2	53	0.4	2	0.2	2	31
129447	1	66	2	53	0.4	2	0.2	2	31
129448	1	66	2	53	0.4	2	0.2	2	31
129449	1	66	2	53	0.4	2	0.2	2	31
129450	1	66	2	53	0.4	2	0.2	2	31
129451	1	66	2	53	0.4	2	0.2	2	31
129452	1	66	2	53	0.4	2	0.2	2	31
129453	1	66	2	53	0.4	2	0.2	2	31
129454	1	66	2	53	0.4	2	0.2	2	31
129455	1	66	2	53	0.4	2	0.2	2	31
129456	1	66	2	53	0.4	2	0.2	2	31
129457	1	66	2	53	0.4	2	0.2	2	31
129458	1	66	2	53	0.4	2	0.2	2	31
129459	1	66	2	53	0.4	2	0.2	2	31
129460	1	66	2	53	0.4	2	0.2	2	31
129461	1	66	2	53	0.4	2	0.2	2	31
129462	1	66	2	53	0.4	2	0.2	2	31
129463	1	66	2	53	0.4	2	0.2	2	31
129464	1	66	2	53	0.4	2	0.2	2	31
129465	1	66	2	53	0.4	2	0.2	2	31
129466	1	66	2	53	0.4	2	0.2	2	31
129467	1	66	2	53	0.4	2	0.2	2	31
129468	1	66	2	53	0.4	2	0.2	2	31
129469	1	66	2	53	0.4	2	0.2	2	31
129470	1	66	2	53	0.4	2	0.2	2	31
129471	1	66	2	53	0.4	2	0.2	2	31
129472	1	66	2	53	0.4	2	0.2	2	31
129473	1	66	2	53	0.4	2	0.2	2	31
129474	1	66	2	53	0.4	2	0.2	2	31
129475	1	66	2	53	0.4	2	0.2	2	31
129476	1	66	2	53	0.4	2	0.2	2	31
129477	1	66	2	53	0.4	2	0.2	2	31
129478	1	66	2	53	0.4	2	0.2	2	31
129479	1	66	2	53	0.4	2	0.2	2	31
129480	1	66	2	53	0.4	2	0.2	2	31
129481	1	66	2	53	0.4	2	0.2	2	31
129482	1	66	2	53	0.4	2	0.2	2	31
129483	1	66	2	53	0.4	2	0.2	2	31
129484	1	66	2	53	0.4	2	0.2	2	31
129485	1	66	2	53	0.4	2	0.2	2	31
129486	1	66	2	53	0.4	2	0.2	2	31
129487	1	66	2	53	0.4	2	0.2	2	31
129488	1	66	2	53	0.4	2	0.2	2	31
129489	1	66	2	53	0.4	2	0.2	2	31
129490	1	66	2	53	0.4	2	0.2	2	31
129491	1	66	2	53	0.4	2	0.2	2	31
129492	1	66	2	53	0.4	2	0.2	2	31
129493	1	66	2	53	0.4	2	0.2	2	31
129494	1	66	2	53	0.4	2	0.2	2	31
129495	1	66	2	53	0.4	2	0.2	2	31
129496	1	66	2	53	0.4	2	0.2	2	31
129497	1	66	2	53	0.4	2	0.2	2	31
129498	1	66	2	53	0.4	2	0.2	2	31
129499	1	66	2	53	0.4	2	0.2	2	31
129500	1	66	2	53	0.4	2	0.2	2	31
129501	1	66	2	53	0.4	2	0.2	2	31
129502	1	66	2	53	0.4	2	0.2	2	31
129503	1	66	2	53	0.4	2	0.2	2	31
129504	1	66	2	53	0.4	2	0.2	2	31
129505	1	66	2	53	0.4	2	0.2	2	31
129506	1	66	2	53	0.4	2	0.2	2	31
129507	1	66	2	53	0.4	2	0.2	2	31
129508	1	66	2	53	0.4	2	0.2	2	31
129509	1	66	2	53	0.4	2	0.2	2	31
129510	1	66	2	53	0.4	2	0.2	2	31
129511	1	66	2	53	0.4	2	0.2	2	31
129512	1	66	2	53	0.4	2	0.2	2	31
129513	1	66	2	53	0.4	2	0.2	2	31
129514	1	66	2	53	0.4	2	0.2	2	31
129515	1	66	2	53	0.4	2	0.2	2	31
129516	1	66	2	53	0.4	2	0.2	2	31
129517	1	66	2	53	0.4	2	0.2	2	31
129518	1	66	2	53	0.4	2	0.2	2	31
129519	1	66	2	53	0.4	2	0.2	2	31
129520	1	66	2	53	0.4	2	0.2	2	31
129521	1	66	2	53	0.4	2	0.2	2	31
129522	1	66	2	53	0.4	2	0.2	2	31
129523	1	66	2	53	0.4	2	0.2	2	31
129524	1	66	2	53	0.4	2	0.2	2	31
129525	1	66	2	53	0.4	2	0.2	2	31
129526	1	66	2	53	0.4	2	0.2	2	31
129527	1	66	2	53	0.4	2	0.2	2	31
129528	1	66	2	53	0.4	2	0.2	2	31
130758	1	1500	2894	535	0.4	97	0.2	2150	259
130759	1	4	11	41	0.2	2	0.2	4	778
130760	1	4	11	41	0.2	2	0.2	4	778
130761	1	66	2	14	0.2	3	0.2	10	962
130762	1	66	2	14	0.2	3	0.2	10	962
130763	1	66	2	14	0.2	3	0.2	10	962
130764	1	66	2	14	0.2	3	0.2	10	962
130765	1	66	2	14	0.2	3	0.2	10	962
130766	1	4	4	14	0.1	2	0.2	2	31
130767	1	66	2	14	0.2	3	0.2	10	962
130768	1	32	3	8	0.1	2	0.2	2	288
130771	1	31521	2	38	4.4	489	0.2	16	990
130772	1	4918	66	2	2.2	18	0.2	110	62
130773	1	1520	2	22	0.2	2	0.2	2	4140
130774	1	508	2	38	0.2	13	0.2	2	20
131551	1	5067	2	38	1.3	6	0.2	2	54

1990 SILT SAMPLES

SAMPLE	Au ppb	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm
82224	158	0.2	14	883	0.5	2	1	182
82227	5	0.2	18	883	0.5	2	1	182
102439	5	0.2	18	883	0.5	2	1	182
102421	5	0.2	19	598	1.2	83	1	119
102424	5	0.2	19	598	1.2	83	1	119
102429	5	0.2	18	620	0.8	26	1	101
102430	5	0.2	18	620	0.8	26	1	101
102431	5	0.2	24	877	1.2	43	1	204
102432	5	0.2	24	877	1.2	43	1	204
102433	5	0.4	35	650	1.2	68	1	176
102434	5	0.4	35	650	1.2	68	1	176
102435	5	0.4	35	650	1.2	68	1	176
129427	4	0.1	3	189	0.2	20	1	11
129428	4	0.1	3	189	0.2	20	1	11
129429	4	0.1	3	189	0.2	20	1	11
Gold	4	0.1	3	189	0.2	20	1	11

1990 FAN SAMPLES

SAMPLE	Mass gm	FER kg	Cu ppm	Zn ppm	Pb ppm	Ag ppm
105210	52.4	5	46	45	2	0.2
135424	76.0	5	46	48	2	0.2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,086

LEGEND

Symbols

- Float Sample Location
- HMC Sample Location
- HMC & Silt Sample Location
- Rock Sample Location
- Silt Sample Location
- Soil Sample Location
- L.C.P.
- I Anomalous Area

0 500 1000 metres
SCALE 1:10,000

REVISED	GOLD CLAIMS
	Geology and Sample Location Map
PROJ. No.	SURVEY BY R.B. DATE OCT. 1990
N.T.S. 104G/2	DRAWN BY P.J.L. SCALE 1:10,000
DWG. No FIG. 4	NORANDA EXPLORATION
	OFFICE PRINCE GEORGE, B.C.