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GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORTS

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GEOLOGICAL, GEOCHEMICAL

AND LINECUTTING

REPORT

ON THE

MARIPOSITE PROPERTY

N.T.S.: 94D/8&9

~~GEOLOGICAL BRANCH
ASSESSMENT REPORT~~

24,138

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Owner: Hemlo Gold Mines, Inc.
Date: November, 1995

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TABLE OF CONTENTS

	<u>PAGE</u>
1.0 INTRODUCTION.....	1
1.1 Location and Access.....	1
1.2 Topography and Physiography.....	1
1.3 History.....	1
1.4 Claims.....	4
1.5 Economic Potential.....	4
1.6 Survey Control.....	4
1.7 Sampling.....	7
2.0 GEOLOGY.....	7
2.1 Regional.....	7
2.2 Property.....	7
3.0 GEOCHEMISTRY.....	10
4.0 CONCLUSIONS.....	14
REFERENCES.....	15

APPENDICES

- Appendix I:** Laboratory Analytical Techniques
- Appendix II:** Soil and Rock Geochemical Results and Descriptions
- Appendix III:** Statement of Costs
- Appendix IV:** Statement of Qualifications

DRAWINGS

	<u>SCALE</u>
Drawing 1: Location Map.....	1:2,000,000
Drawing 2: Claim Location.....	1:50,000
Drawing 3: Regional Geology.....	1:20,000
Drawing 4: Property Geology.....	1:5000
Drawing 5: Vein Density.....	1:5000
Drawing 6: Sample Locations.....	1:5000
Drawing 7: Gold in Rock Results.....	1:5000
Drawing 8: Gold in Soils Results.....	1:5000

1.0 INTRODUCTION

Between the dates of June 12 and September 8, 1995 Hemlo Gold Mines Inc. conducted a geological, geochemical and linecutting program over an area immediately north of an anomalous gold in talus fines zone associated with sericite-ankerite alteration which hosts a sheeted quartz (calcite) vein system identified in 1994.

A total of 111 soils, 508 rocks were collected of which 102 soils and 366 rocks as well as 13.625 line kilometers of grid establishment are being applied forward assessment. This portion of the program was conducted from June 12 to August 9, 1995.

1.1 Location and Access

The Mariposite property is located approximately 200 kilometers north-northeast of Smithers, B.C. on N.T.S. Mapsheets 94D/8 & 9 in the Omineca Mining Division.

Access to the property was achieved via helicopter based at the east end of Johanson Lake located 10 kilometers north-northeast from the property.

1.2 Topography and Physiography

The Mariposite property is situated within the Osilinka Ranges and is drained to the west by Mariposite Creek (headwaters of Goldway Creek) and the headwaters of Dortatelle Creek to the south. The claims are all above treeline and terrain ranges from flat in the broad east-west trending valley that bisects the property to steep on the mountains located in the north portion of the property. Elevations range from 1260 meters to 2160 meters.

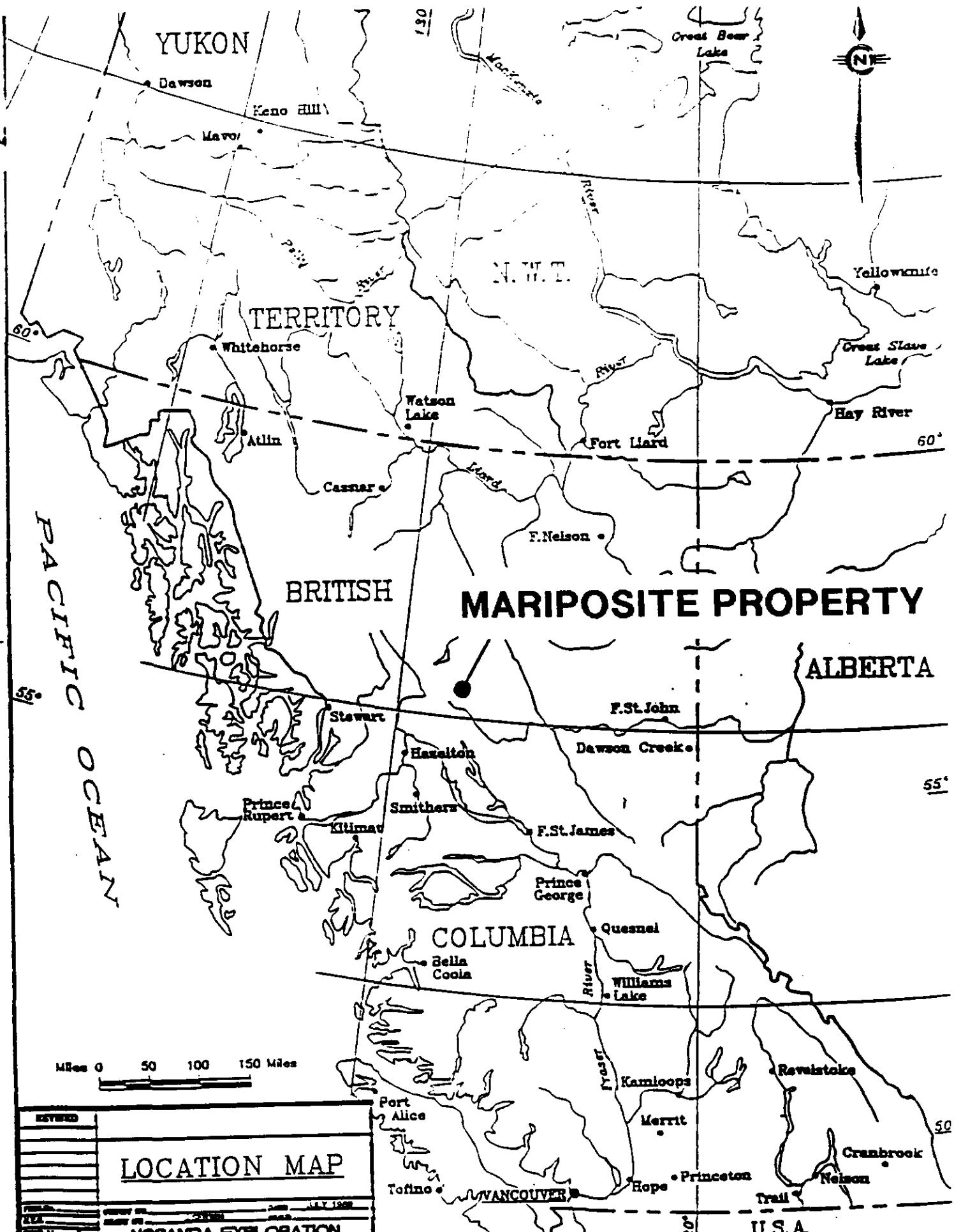
1.3 History

Below is a brief outline of documented work performed in the project area in chronological order.

1949: Preliminary work on auriferous quartz veins conducted by Goldway Peak Mines Ltd. in the Goldway Peak area.

1970-1972: The Kliyul property was staked and geochemically and geophysically surveyed by Kennco Explorations. These surveys delineated a 2.5 km x 1.0 km I.P. chargeability anomaly and coincident (yet smaller) copper soil geochemical and magnetic anomalies.

1971-1972: Geological, geochemical and geophysical (magnetics) surveys were conducted by El Paso Mining and Milling Co. who discovered skarn zones along the sheared contact between ultramafics and volcanics on lower Kliyul Creek.



LOCATION MAP

- 1973: Kliyul property optioned to Sumac Mines Ltd. who drilled 3 x-ray holes (no results available).
- 1973: San Jacinto Explorations Ltd. performed soil surveying near the gold/quartz veins on Goldway Peak.
- 1974: Sumac Mines drilled 6 'BQ' holes on the Kliyul property to test the West and East Zone copper soil anomalies and 5 'BQ' holes into the magnetic high. The latter drill holes intersected magnetite-copper-gold mineralization within a well fractured, sericite, chlorite, epidote, carbonate, quartz, pyrite skarn hosted by calcareous andesite tuffs and agglomerates and lesser dioritic units. A reserve of 2.5 million tons of 0.3% Cu and 0.03 opt Au was returned from this skarn zone.
- 1974-1975: BP Minerals Ltd. completed geological, geochemical and geophysical (mag/JEM) over the Bap mineral claims which overly intensely sheared, clay-sericite altered feldspar porphyry volcanics/intrusives and auriferous quartz veins.
- 1976: Maxmin (EM) surveying completed over the Bap claims by BP Minerals Ltd.
- 1981: Geological and geochemical surveying was completed by Dupont of Canada on the AS 1 claim near Goldway Creek.
- 1981: Kennco and Vital Pacific drilled 4 NQ holes (1978 feet) into the central skarn zone on the Kliyul property; all in a southerly direction.
- 1982: A trace element study was performed by BP Minerals on previously collected samples from the Bap claims.
- 1982: Further geochemistry was completed in the Goldway Peak area by Dermot Fahey and by Laramie Mining Corporation.
- 1983: A preparatory study to determine road access to Goldway Peak was undertaken by Laramie Mining Corporation.
- 1984: BP Minerals relogged and sampled portions of available core and conducted geological mapping and geochemical sampling on the Kliyul property.
- 1984: Laramie Mining Corporation conducted mapping, geophysics (VLF) and sampling/assaying of their Goldway Peak Property.

- 1984: Mapping and geochemistry was completed in the lower Kliyul Creek area by BP Resources Canada, Ltd.
- 1984: After obtaining the KC 1 & 2 mineral claims and conducting preliminary sampling and prospecting, Golden Rule Resources Ltd. completed further geological, geochemical and geophysical (magnetics) surveys.
- 1985: Geological and geochemical surveying in the Goldway Peak area by BP Resources, Canada, Ltd. delineated auriferous quartz veins and fractures within quartz-carbonate-pyrite altered zones.
- 1985: Further geological, geochemical and geophysical work (magnetics, VLF) was performed by Golden Rule Resources Ltd. on the KC 1 & 2 claims.
- 1985-1986: Prospecting, mapping, trenching and sampling of the auriferous quartz veins in the Goldway Peak area continued with Laramie as the operator.
- 1986: Soil surveying was performed by Lemming Mining Resources for BP Resources on the Bap claims.
- Ritz Resources Ltd. for Goldnev Rule Resources Ltd. performed further geological, geochemical and geophysical (magnetics, VLF) work on the KC 1 & 2 claims.
- 1990: Placer Dome conducted linecutting, magnetometer and VLF-EM surveying, soil and rock sampling and prospecting on the Kliyul property in order to delineate magnetic anomalies similar to the known skarn zone, possible porphyry style mineralization and/or mineralized structures parallel to the large glacial valley.
- 1992: Noranda Exploration Company, Ltd. conducted 1:5,000 geological mapping on the Kliyul property, concentrating on alteration assemblages as well as rock and minor sampling.
- 1993: Noranda completed a 6 hole, 560 meter reverse circulation drill programme on the Kliyul main skarn zone. Results were encouraging enough to pursue options on surrounding properties which host similar stratigraphy, intrusives and mineralization. A helicopter-borne electromagnetic-radiometric survey was flown over the area from lower Kliyul Creek to just south of Johanson Lake. Subsequently a 288 test pit program on the Kliyul property, as well as cursory mapping and sampling on the Joh, Croydon, Darb and Soup properties was completed.

1994: Hemlo Gold Mines Inc. acting as agent for Noranda Exploration Company, Limited conducted several geological, geochemical, and geophysical surveys on the Soup, Darb, Croydon, Mariposite and Joh properties. A ten hole, 1120 meter diamond drilling program was also completed on the Kliyul property.

1.4 Claims

The Mariposite property is comprised of 4, 20 unit claims, two 16 unit claims, one 12 unit claim and one 1 unit claim for a total of 125 units. A list of the claims with corresponding tenure numbers, anniversary dates and owners follows.

CLAIM NAME	TENTURE NO.	UNITS	ANNIVERSARY DATE	OWNER
*Darb 1	316540	1	March 10, 2001	Hemlo Gold Mines Inc.
Dort 1	316536	20	March 10, 2000	Hemlo Gold Mines Inc.
*Dort 2	316537	20	March 10, 2001	Hemlo Gold Mines Inc.
*Dort 3	316538	20	March 10, 2001	Hemlo Gold Mines Inc.
*Dort 4	316539	12	March 10, 2001	Hemlo Gold Mines Inc.
*Glacier 1	330082	16	August 12, 2001	Hemlo Gold Mines Inc.
*Glacier 2	330083	16	August 11, 2001	Hemlo Gold Mines Inc.
Glacier 3	339309	20	August 18, 1996	Hemlo Gold Mines Inc.

Assessment is being applied only to those claims with an asterisk beside the name.

1.5 Economic Potential

An extensive area of quartz veined, well fractured, ankerite, sericite +/-biotite altered package of epiclastics and volcanoclastics extending for 3 - 4 kilometers and average 500 - 1000 meters in width is semi-coincident with a >100 ppb Au in talus fine anomaly indicating that the potential for bulk tonnage or shear/vein hosted style gold mineralization may exist on the property.

1.6 Survey Control

The surveying of the flagged and picketed grid lines was conducted with the aid of a compass and metric chain and were tied into topographic features and the 1994 grid system. All lines were sloped corrected and the establishment of 13.625 line kilometers of grid is being applied for assessment within this report. Lines were established at 50 and 100 meter intervals off the baselines with stations being established every 25 meters.

1.7 Sampling

Soil sampling was conducted along metrically chained lines with samples taken every 50 meters to the depth of 5-45 cm with the aid of a shovel or mattock. Soils were collected in brown kraft envelopes for drying, storage, and shipping purposes and sent to Noranda Exploration at Unit #1, 7550 - 76th Street, Delta, B.C. Rock samples were collected as grabs or chips whenever representative, altered and/or mineralized formations were encountered.

Please refer to Appendix I for the laboratory analytical techniques and Appendix II for sample assay values and descriptions where applicable.

A total of 102 soils and 366 rocks and their accompanying analytical charges are being applied for assessment.

2.0 GEOLOGY

2.1 Regional Geology (See Drawing #3)

The Mariposite property is situated within the Intermontane Belt which is comprised of Upper Triassic to Lower Jurassic Island arc volcanics, volcanoclastics and sediments of the Takla Group which hosts such Cu-Au porphyry deposits as Mt. Milligan and Kemess. The dominantly volcanic package has been intruded by Jura-Cretaceous aged diorites, monzonites and syenites associated with the Hogem Batholith.

Prominent structural features in the area include NW, E-W, N-S, and NNE-SSW trending fault systems.

2.2 Property Geology (See Drawings 4 and 5)

An area of 3.5 square kilometers was mapped during this programme at a scale of 1:5000 using a flagged and picketed grid as well as topographic features for reference. Mapping was conducted on an extension of the 1994 grid, a smaller grid to the northeast and along regional traverses to the east, west and north.

The main subject area (gridded portion) is underlain by a package of andesitic pyroclastics and overlying andenitic epiclastics and lesser argillaceous sediments. These units were deposited in a basinal environment as evidenced by chaotic turbidite sequences, quick facies changes and block faulting. Mapping of individual units within this chaotic and quickly changing environment was difficult as the tuffaceous and epiclastic units were often found to be interbedded with individual beds ranging from several centimeters to only a few meters thick. The oldest package of rocks on the property consists of andesitic pyroclastics which range from fine grained to lapilli tuffs and local conglomerate (Unit 1). The fragments within the finer grained sequences are generally <5mm, stretched and weakly aligned. Agglomeritic sections were

founded to be variably magnetic and locally contain a limey cement. To the northeast of the main grid this unit appears more massive and consists of rotated, monolithic house-size blocks.

Interbedded with and generally overlying the pyroclastic package are rocks of Unit 2 described as andesitic epiclastics. This unit is generally light to medium green to grey-green in color, well to poorly laminated locally exhibiting minor folds, faults and contorted layering. These rocks are very fine to fine grained, may contain up to 2% fine grained, disseminated pyrite and are more carbonate rich down section. Generally this unit is more gritty and interbedded with members of Unit 1 along the ridge covered by lines 649N to 654N and becomes finer grained, less interbedded and displays turbiditic sequences northward.

Unit 3 consists of fine grained, grey to black, thinly laminated argillites, mudstone and shales. Smaller sections of this material are observed interbedded with Units 1 and 2 but more extensive areas of sediment become more prevalent to the north.

Unit 4 was broken out as a single unit early in the mapping programme as it was thought to be a distinctive marker horizon between the lower pyroclastics and upper epiclastics. This unit, described as a light grey to buff, fine grained, well foliated epiclastic was found to be of limited extent and is located near L664N/706E.

To the east of the main gridded area occur rocks described as massive augite phryic andesites (Unit 5) which are comprised of elongated, shreddy mafic phenocrysts set within a medium to coarse grained feldspar rich matrix. This unit is only seen to the east of the faults which bound the alteration assemblages toward the north-south trending Doretelle fault.

Six compositionally different rock types intrude the volcano-sedimentary package mentioned above. No direct contact relationships were observed between the intrusives but have been placed in an oldest to youngest sequence based on previous mapping in the Johanson Lake area.

The first intrusive phase mapped (Unit 6) consists of augite porphyry/diabase dykes which at times approach gabbro in composition. This dark green unit weathers buff to orange-brown, contains augite phenocrysts to 2-5mm often replaced by chlorite, is weakly magnetic and cuts both the andesitic tuffs and epiclastic units.

Unit 7 consists of predominantly fine grained diorite with trace amounts of coarse grained cubic pyrite, exhibits local weak magnetism and becomes coarse grained to the northwest of the Mariposite Creek valley and well to the north of the gridded area on the west side of the large unnamed lake. This unit is the most extensive of the intrusives mapped in this area and appears related to most of the auriferous quartz veins sampled to date.

Blocky, medium grained, light grey to white, equigranular monzonite and quartz monzonite comprises Unit 8. This intrusive is seen as a small stock on the north side of a NW-SE trending ridge northwest of the gridded area and as small dykes in the same vicinity. No veining, alteration or anomalous gold geochemistry is seen to be associated with this intrusive body.

Unit 9 is described as a quartz-feldspar porphyry which locally does not contain quartz eyes and at other locations lacks large feldspar phenocrysts. Quartz eyes, where present, can range from 3mm to 8mm in size and comprise up to 10% of the rock. This unit occurs as fairly large linear dykes to the east of the gridded area separating mainly altered epiclastics from non-altered massive augite phric andesites. It is also seen as small dykes and plugs near the central portion of the extended portion of the main grid (66550N, 70950E) in close proximity to the diorite intrusives and may represent a marginal phase of the main diorite stock itself.

Fine grained, light grey granodiorite and very fine grained, cream colored aplite comprise Units 10 and 11 respectively. These intrusives are observed as dykes only and are of limited extent.

Two main types of alteration were mapped on the property. These include ankerite and sericite with lesser secondary biotite also present in some areas.

Ankerite occurs as fracture fillings along selvages of quartz veins, pervasively through country rock and at times as disseminations revealing a boxworked texture that looks very much like remnant pyrite. Disseminated ankerite is also noted along foliation planes suggesting the stress event is older than the alteration episode. The ankerite seen as quartz vein selvages suggests that the ankerite alteration was at the same time or slightly earlier than the veining. Ankerite alteration is seen in all rock types within the alteration limits (Drawing 4) except for the aplite dykes. Ankerite increases in intensity near vein/fracture density increases.

Sericite alteration is semi-coincident with the ankerite and occurs as an alteration product of feldspar phenocrysts within the epiclastic, andesite, diorite and quartz-feldspar porphyry units and along foliation planes forming a grey-green, ghostly appearance. Sericite alteration generally increases toward the main diorite stock.

Very fine grained, disseminated secondary biotite hornfelsing was also observed locally, proximal to the main dioritic intrusive especially in the andesitic pile on lines 665N and 666N and more prevalently in the sediments underlying lines 678N through 682N.

Bedding orientations in the gridded areas reveal a northwest, north and northeast orientation with dips to both the east and west which suggests intraformational folding and supports the chaotic nature of this basinal environment. Foliation measurements typically trend northwest, north and north-northeast which may reflect a more north-south regional stress and more localized northwest, northeast trending components.

Mapped and inferred (from air photo interpretation) faulting indicates a series of northwest and northeast striking, east dipping and northeast striking, west dipping faults which are mimicked by smaller scale fracture sets. Several low to moderate angled fault zones have also been mapped on the ridge to the south of the Mariposite Creek valley and may represent reverse faults emplacing dominantly andesitic tuffs on top of a mainly epiclastic package.

Of interest is the increased fracturing, jointing and subsequent quartz vein emplacement that is apparent moving from south to north across the property. (Refer to Drawing #5 for vein density representation). The quartz veins occur mainly as sheeted veins and ladder vein systems which strike in several orientations listed below in decreasing frequency order:

1. 290 - 320°
2. 270 - 280°
3. 320 - 340°
4. 220 - 270°

Dips of these veins are generally steep from 60 to 90° with the bulk of the dips at 80 - 90° and north dipping vein systems outnumbering south dipping veins at greater than 2 to 1 ratio. Most veins are of translucent to bull quartz in nature and locally contain clots and disseminations of pyrite to 5%. Galena and rare pyrrhotite are observed in the northeast portion of the 1995 grid extension and in veins located in the vicinity of the small grid to the north.

The number of vein episodes remains unclear as all vein material observed is the same. At times northwest trending veins are seen to crosscut east-west, flatter dipping veins while in other locations the reverse is true suggesting at least three events.

Sulfide mineralization on the property is restricted to pyrite and very rarely pyrrhotite which occurs occasionally within quartz veins and at other times as fine to very fine grained disseminations from trace to 2% in country rock while pyrite in veins can locally reach 5% as disseminations or clots. A general increase in pyritization occurs where more anomalous zones of ankerite-sericite exist which is often where fracture density increases.

3.0 GEOCHEMISTRY

The objective of the 1995 geochemical survey was to define the source of anomalous gold in soils/talus fines delineated in 1994 along a reconnaissance contour soil line located at L659N/70550E which trends northeastward across L66950N/71700E.

A total of 102 soils and 366 rocks were collected during the reporting period although all samples collected during the entire 1994/95 field programmes have been plotted and described within the appendices of this report. Only geochemical values for the 1995 samples are shown in Appendix II as 1994 values can be obtained from last year's report also submitted for assessment credit.

Below is a brief discussion of the gold in soils/talus fines results which are depicted on Drawing #8 and contoured at 100,500 and 1000 ppb intervals. Drawing #6 shows rock sample locations and corresponding sample numbers while Drawing #7 depicts each sample's gold value in ppb. Refer to Appendix II for soil and rock assay results and descriptions where applicable.

Of the 111 soils/talus fines collected on the 1995 grid area the lowest value obtained was 24 ppb Au while the highest value returned was 2440 ppb Au. Combining both the 1994 and 1995 soil geochem data from L645N northward reveals a large, widespread anomaly that ranges in width from 100 meters on the southern most line (645N) to over 1500 meters covering most of the 1995 grid (lines 661N through 670N). Although major component of this anomaly is due to downhill dispersion, the overall length of this anomaly measures 2.5 kms and remains open to the north in areas of cliffs and glaciers.

The overall dimensions and limits of the 100 ppb Au zone are also coincident with the limits of moderate to strong ankerite-sericite alteration , (Drawing #4), which are structurally controlled by northwest and northeast trending known and inferred (air photo lineaments) normal faults.

Contouring of the 500 ppb and 1000 ppb Au results dramatically reduces the areal extent of the previous, widespread gold anomalous zone to more discreet zones which roughly trend north-northwest and are coincident with areas of increased alteration, vein density and fracturing. Typically these more anomalous zones are located in talus filled gullies which likely represent buried fault zones. Some of the more defined greater than/equal to 500 ppb Au anomalies are centered on lines 652N through 654N at 71625E; lines 662N through 664N at 70800E and lines 665N through 667N at 70950E.

Assay results returned from the 743 rock samples collected during the 1994/95 programmes reveal that 70 samples returned results of greater than or equal to 500 ppb Au which equates to roughly 9% of the total sample population. Below is a table showing these results with corresponding sample type, rock type sampled and applicable structural measurements.

<u>SAMPLE NO.</u>	<u>AU (PPB)</u>	<u>TYPE/WIDTH</u>	<u>ROCK TYPE</u>	<u>STRUCTURE</u>
DC0016	3600	Float	Vein	-
DC0037	860	Float	Veined sediments	-
GG0360	510	Chip/1.3m	Vein	352/56
GG0521	15550	Comp. grab/1.0m	Quartz pod	-
GG0528	715	Chip/1.5m	Vein	225/90
GG0583	935	Chip/0.3m	Vein	290/90
GG0591	530	Chip/1.0m	Vein	330/85
GG0627	5900	Chip/1.0m	Altered tuff	-
GG0628	730	Chip/0.6m	Vein	280/85
GG0629	910	Chip/1.0m	Altered tuff	-
GG0661	645	Chip/1.0m	Altered tuff	295° fracs
GG0749	995	Grab	Vein in shear	70/56
GG0818	530	Comp. grab/1.0m	Vein	-
GG0819	32500	Float	Vein	-
GG0820	14250	Float	Vein	-
GM0074	695	Chip/0.75m	Vein	331/80

<u>SAMPLE NO.</u>	<u>AU (PPB)</u>	<u>TYPE/WIDTH</u>	<u>ROCK TYPE</u>	<u>STRUCTURE</u>
GM0105	4750	Chip/1.0m	Vein	298/60
GM0113	920	Chip/1.0m	Vein	127/74
GM0170	1005	Chip/0.6m	Veined tuff	312/66
GM0177	1010	Chip/1.2m	Vein	240/62
GM0192	1045	Chip/1.2m	Vein	-
GM0233	660	Chip/1.0m	Vein	272/74
GM0235	650	Chip/0.5m	Veined shale	-
GM0246	605	Chip/0.1m	Vein	311/78
GM0260	1420	Chip/0.6m	Vein	278/85
GM0301	660	Chip/0.15m	Vein	206/72
GM0304	550	Chip/0.4m	Shear	308/80
GM0314	4650	Chip/0.8m	Vein	312/75
GM0349	620	Chip/0.3m	Vein	306/90
GM0368	9650	Chip/0.3m	Vein	139/81
GM0381	10950	Chip/0.3m	Vein	74/44
GM0383	570	Grab	Vein	-
GM0389	4050	Chip/0.2m	Vein	86/66
GM0391	510	Chip/0.2m	Vein	-
GM0394	4000	Grab	Vein	-
GM0402	6150	Chip/0.5m	Vein	155/48
GM0446	1200	Float	Vein	-
GM0457	1490	Chip/0.3m	Vein	135/80
GM0458	525	Grab	Vein	138/76
JH0001	530	Chip/1.0m	Veined diorite	-
KP0224	9700	Grab	Veined andesite	302/90
KP0232	640	Grab	Altered epiclastics	-
KP0235	2000	Grab	Vein	300/90
KP0239	1300	Grab	Vein	280/90
KP0243	1500	Grab	Vein	-
KP0245	510	Grab	Vein	-
KP0247	740	Grab	Vein	307/90
KP0248	500	Grab	Vein	317/90
KP0274	5500	Grab	Veined epiclastics	230 trend
LE0522	7200	Chip/0.2m	Vein	-
LE0665	815	Chip/2.0m	Veined tuff	-
LE0673	520	Chip/1.3m	Vein	272/80
LE0696	965	Chip/1.2m	Vein	98/60
LE0706	650	Chip/1.0m	Vein	130/70

<u>SAMPLE NO.</u>	<u>AU (PPB)</u>	<u>TYPE/WIDTH</u>	<u>ROCK TYPE</u>	<u>STRUCTURE</u>
LE0715	1030	Chip/1.5m	Vein	300 trend
LE0728	615	Chip/0.2m	Veined sed.	120/62
LE0729	695	Chip/0.4m	Veined sed.	140/80
LE0772	970	Comp. grab	Vein	136/36
LE0775	9150	Grab	Vein	-
PM0250	1200	Grab	Vein	-
PM0285	970	Grab	Veined sed.	-
PM0394	680	Grab	Vein	337/90
PM0398	1120	Grab	Vein	288/90
PM0400	2700	Grab	Vein	29990
PM0409	1800	Grab	Vein	93/62
RC0029	1495	Chip/0.1m	Vein	300/85
RC0032	650	Float	Veined volcs.	-
RC0038	215000	Chip/0.3m	Sheared tuff	308/80
RC0039	3265	Chip/0.3m	Hanging wall shear	25/50
RC0040	3050	Chip/3.0m	Hanging wall of dyke	120/75

Results shown from this table suggest that the vast majority of gold anomalous rock samples are from quartz veins or host rock containing vein material (62 of 70).

Examination of the structural orientations of the auriferous veins also reveals that the majority strike between 290-320 with southerly and northerly dips. A secondary population of auriferous veins is seen to trend between 270-280 while lesser set of veins plot between 320-360 and 220-240°. Dips of these gold bearing veins are found to be steep, generally between 60 to 90° (85%) with the bulk of the measurements (50%) falling in the 80-90° range. Anomalous veins dipping northerly occur over twice as often as gold anomalous dipping to the south.

Referencing both the location of these anomalous veins and the underlying geology, it is apparent that the majority of these veins are located within or at least within close proximity to the diorite plug located between lines 661N and 666N and associated with the diorite dyke and plug in the vicinity of lines 679N through 682N. Other gold bearing veins are generally located throughout other rock types but near or within steeply incised, 320° trending gullies which correspond to the same trend as many of the air photo lineaments and known normal faults. Referring to Drawings 5 and 7 also shows that the frequency of both the 'dry' veins and the gold anomalous veins increases dramatically to the north of the southwest flowing creek toward the main diorite stock.

4.0 CONCLUSIONS

1. Geological mapping has revealed that the survey area is underlain by a turbiditic sequence of andesitic pyroclastics and epiclastics and lesser argillaceous sediments which have been intruded by stocks, dykes and plugs of diorite, monzonite, granodiorite, gabbro and aplite compositions.

2. The volcano-sedimentary package is very chaotic not only due to the turbiditic nature of the rocks but also due to later block and thrust faulting. A distinct north trending foliation has also been superimposed on this package and is probably due to regional strain perhaps related to the Doretelle fault located 2.5 kms to the east.

3. Alteration of the package ranges from weak to strong ankerite mainly associated with intense fracture sets and veining as well as more pervasive sericite +/- biotite alteration proximal to the dioritic intrusions. This alteration appears bounded by northeast and northwest trending block faults which form an area measuring approximately 500 to 1500 meters in width and over 3.0 kms. in length.

4. Anomalous gold in soils/talus fines correlates well with the above mentioned zone of ankerite-sericite alteration.

5. Intense fracturing and quartz veining is also associated with the zone of alteration and increase in frequency toward the north sections of the survey area proximal to the main diorite stock. Quartz veins range from mm to several meters in width and are generally discontinuous forming ladder and sheets sets.

6. Of the anomalous gold in rocks returned (≥ 500 ppb) nearly all were from quartz veins or sample that included quartz vein material. The majority of the anomalous veins appear to trend between 290 to 320, and 270 to 280 with lesser sets plotting between 320 to 360 and 200 to 240. Dips of these veins are both steep to the north and south with north dips occurring more than twice as often as dips to the south.

7. Gold bearing vein sets appear to be related to the dioritic intrusion(s) and occur more often near northwest trending dykes and fault zones which are manifested by steeply incised, talus filled gulleys. The majority of the auriferous veins occur within 1 km of the main dioritic stock.

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APPENDIX I
LABORATORY ANALYTICAL TECHNIQUES

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

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

Preparation of Samples:

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

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

Analysis of Samples:

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

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

Elements Requiring Specific Decomposition Method:

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

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

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

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

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

Magnesium - Mg: 0.05 - 0.1 g sample is digested with 4 M perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with the use of a nitrous oxide flame determines Mg from the aqueous solution.

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

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

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

LOWEST VALUES REPORTED IN PPM:

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

APPENDIX II
SOIL AND ROCK GEOCHEMICAL RESULTS
AND
DESCRIPTIONS

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 79 Soils

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

** Organic, & Humus, S Sulfide

Geol.: G.G.
Sheet: 1 of 2

Date received: JULY 11
Date completed: JULY 14

LAB CODE: 9507-015
R #31559/62

Au - silt & soil, 15.0 g sample digested with aqua-regia and determined by A.A. (D.I., 2 PPB); Rx. 10.0 g/AR/AA (D1, 5 PPB)

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

F. No.	SAMPLE No.	Elemental Content (ppm)																										
		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
66300N-70400E	50	0.4	4.87	11	500	0.5	5	0.89	0.7	41	39	113	117	7.27	0.69	15	34	3.56	2563	6	0.03	85	0.10	2	44	0.30	346	231
66300N-70450E	82	0.8	4.62	22	575	0.6	5	0.74	0.5	46	43	59	273	8.24	0.81	18	27	2.45	2371	2	0.03	56	0.09	2	48	0.27	226	176
66300N-70500E	148	1.0	4.49	15	717	0.6	5	0.91	0.6	47	37	50	167	6.93	0.72	16	25	2.12	2895	1	0.04	48	0.08	6	68	0.25	216	149
66300N-70550E	744	0.6	4.70	17	501	0.5	5	0.45	0.6	33	44	85	149	7.84	1.78	12	28	1.90	1002	1	0.04	119	0.07	2	23	0.55	147	199
66300N-70600E	362	0.8	4.07	39	705	0.7	5	0.47	1.7	41	31	59	156	6.64	1.07	16	23	1.72	1669	1	0.01	72	0.09	23	30	0.35	153	218
66300N-70650E	980	1.6	4.88	34	684	0.8	5	0.66	1.0	44	38	78	201	7.17	1.00	17	30	2.20	1782	1	0.01	91	0.09	20	42	0.38	182	185
66300N-70700E	472	2.8	4.17	24	646	0.7	5	0.42	1.4	36	32	33	190	6.92	0.88	16	23	1.53	2151	2	0.04	51	0.08	58	33	0.28	153	197
66300N-70750E	840	3.2	4.02	24	587	0.7	5	0.33	1.2	34	29	37	164	6.31	0.84	16	20	1.43	2004	5	0.05	48	0.08	47	34	0.25	142	173
66300N-70800E	800	3.0	4.64	49	710	1.1	5	0.33	1.9	34	45	88	137	7.56	1.02	13	23	1.23	1805	5	0.06	126	0.09	142	48	0.20	189	244
66300N-70850E	190	1.0	4.83	25	594	0.8	5	0.74	0.6	38	34	53	153	6.87	0.80	14	23	1.77	1510	1	0.05	59	0.10	56	48	0.31	183	172
66400N-70500E	82	0.4	3.78	14	670	0.4	5	1.16	0.5	44	24	16	135	6.36	0.74	14	22	1.92	2305	1	0.03	20	0.08	2	44	0.32	195	131
66400N-70550E	158	0.6	4.03	37	740	0.5	5	0.55	0.5	39	26	13	146	6.40	0.78	15	22	1.58	3058	1	0.04	25	0.09	4	29	0.27	179	148
66400N-70600E	170	0.6	4.42	24	720	0.6	5	0.46	1.0	43	23	11	116	5.74	1.09	17	20	1.50	2832	1	0.04	25	0.07	8	32	0.24	129	172
66400N-70650E	676	4.0	4.14	32	588	0.8	5	0.44	1.8	42	44	52	369	7.45	0.89	16	20	1.41	2321	11	0.05	91	0.08	55	46	0.25	141	202
66400N-70700E	620	2.6	3.96	30	551	1.1	5	0.37	1.3	36	50	82	211	7.70	0.86	14	20	1.28	2013	4	0.06	109	0.08	88	69	0.22	185	211
66400N-70750E	1500	8.4	4.84	61	585	1.6	5	0.36	2.7	40	55	186	145	9.30	0.91	16	27	1.51	2322	15	0.06	261	0.11	245	59	0.12	241	326
66400N-70800E	704	1.8	4.70	34	734	1.0	5	0.43	1.6	38	45	81	146	7.27	0.92	14	24	1.69	1929	1	0.05	94	0.09	121	40	0.24	182	235
66400N-70850E	224	1.0	3.81	39	640	1.3	5	0.57	1.0	41	28	34	126	6.35	0.90	15	20	1.42	1896	5	0.04	43	0.08	28	41	0.25	145	176
66400N-70900E	730	2.6	4.03	141	744	1.5	5	0.55	2.1	40	39	71	161	8.15	0.94	14	22	1.68	2113	3	0.05	79	0.10	122	38	0.25	191	263
66400N-71000E	400	5.0	3.81	93	711	1.4	5	0.73	1.5	42	38	67	148	7.54	0.86	14	21	1.66	2159	2	0.05	74	0.11	87	50	0.25	181	212
66400N-71050E	334	2.2	3.73	35	665	1.2	5	0.45	1.3	37	35	55	120	6.60	0.91	13	20	1.43	1700	4	0.06	63	0.09	71	34	0.23	153	194
66400N-71100E	364	2.4	3.72	32	648	1.5	5	0.43	1.5	39	28	33	121	6.72	0.91	14	19	1.22	1808	4	0.06	38	0.09	76	32	0.23	147	211
66500N-70600E	352	0.4	4.15	2	633	0.5	5	0.68	0.7	41	17	6	107	4.96	0.72	13	18	1.53	2422	1	0.03	11	0.07	86	47	0.26	90	151
66500N-70650E	384	2.0	4.35	57	681	0.7	5	0.50	2.1	55	28	21	133	6.23	1.00	20	19	1.65	1896	6	0.05	48	0.09	14	48	0.27	130	243
66500N-70700E	318	1.0	3.70	48	685	0.7	5	0.26	1.9	45	25	27	108	5.67	0.91	17	17	1.19	1757	4	0.05	49	0.07	68	26	0.22	103	251
66500N-70750E	462	1.0	5.08	15	598	1.0	5	0.53	1.1	39	43	74	180	7.20	1.06	15	24	1.81	1979	1	0.04	77	0.08	86	34	0.32	176	209
66500N-70800E	302	2.4	4.51	78	1006	1.7	5	0.31	1.4	40	37	33	132	7.15	1.33	17	14	0.90	1914	8	0.06	65	0.08	70	76	0.11	135	229
66500N-70850E	2240	2.8	3.86	39	630	0.8	5	0.42	1.1	36	34	39	134	6.77	1.00	16	21	1.43	1983	3	0.05	52	0.08	23	26	0.30	133	196
66500N-70900E	220	1.6	3.66	18	617	1.1	5	0.39	1.0	31	34	94	101	7.03	0.75	13	22	2.00	1531	1	0.04	85	0.09	48	24	0.29	172	164
66500N-70950E	412	2.4	3.96	56	707	1.1	5	0.50	0.7	39	34	38	140	7.39	0.87	14	21	1.39	2405	3	0.06	46	0.09	43	37	0.28	152	174
66500N-71000E	652	4.4	4.05	45	611	1.5	5	0.54	1.0	39	33	32	139	7.24	0.91	14	22	1.55	2156	2	0.07	41	0.10	58	35	0.26	164	171
66500N-71050E	840	3.2	3.58	11	591	1.2	5	0.55	5.1	44	34	32	104	7.63	0.71	16	22	1.43	1987	1	0.05	35	0.11	554	32	0.32	159	436
66500N-71100E	54	0.8	4.54	8	420	0.5	5	0.76	0.8	38	31	45	108	6.85	0.31	14	34	2.37	2310	1	0.03	35	0.16	50	32	0.36	233	146
66500N-71150E	190	1.4	3.78	22	535	0.7	5	0.40	1.4	37	28	37	96	6.24	0.85	14	21	1.38	1453	2	0.06	42	0.09	93	28	0.28	151	199
66600N-70700E	170	0.6	4.60	16	416	1.0	5	0.57	1.2	42	38	14	68	7.57	0.48	15	26	1.91	6280	1	0.04	18	0.13	17	37	0.18	183	147

100-144 (448.91) 99
100-144 (448.91) 99

T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Cr ppm	Co ppm	Cr ppm	Ca ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm	
	66600N-70750E	2440	3.0	3.51	42	666	0.9	5	0.26	28	47	28	28	129	6.75	0.93	18	15	1.01	1825	9	0.05	51	0.08	238	34	0.18	108	338
	66600N-70800E *	180	0.8	3.48	50	558	1.1	5	0.23	0.8	36	19	63	116	5.00	0.90	13	17	0.71	1431	10	0.07	44	0.08	32	28	0.08	111	123
	66600N-70850E	378	1.2	4.36	26	545	1.5	5	0.29	1.4	36	39	63	120	7.05	1.11	16	21	1.55	1671	9	0.06	88	0.08	17	37	0.29	132	239
	66600N-70900E	622	1.8	4.12	39	781	1.9	5	0.35	1.0	38	34	66	149	6.97	1.11	16	20	1.57	1715	6	0.06	79	0.09	20	37	0.27	160	217
	66600N-70950E	560	2.4	4.05	53	638	1.0	5	0.22	0.9	40	31	39	146	6.45	1.12	18	17	1.19	1715	7	0.06	59	0.08	25	29	0.23	129	189
	66600N-71000E	430	0.4	3.81	12	371	0.5	5	0.55	0.3	37	29	23	95	6.45	0.54	13	25	1.44	1642	1	0.09	24	0.09	18	37	0.30	160	122
	66600N-71050E	142	1.0	3.87	20	514	0.7	5	0.26	0.6	32	27	47	98	6.40	0.82	12	22	1.46	1702	1	0.05	48	0.09	43	22	0.27	155	162
	66600N-71100E	244	1.2	4.39	10	577	0.7	5	0.66	0.7	40	29	44	102	7.11	0.87	14	29	1.68	1551	1	0.06	44	0.10	69	31	0.36	197	179
	66600N-71150E	270	2.0	4.11	14	434	0.5	5	0.60	1.1	38	26	25	97	6.65	0.60	13	29	1.53	2949	1	0.04	25	0.11	53	28	0.31	164	156
	66600N-71200E	432	1.4	3.90	18	612	0.7	5	0.43	1.2	41	29	47	98	6.80	0.97	16	20	1.34	1375	1	0.07	45	0.11	111	23	0.33	173	194
	66600N-71250E	192	0.6	2.50	16	688	0.5	5	0.73	0.3	35	25	12	142	8.19	0.78	14	15	1.29	1950	1	0.04	17	0.06	2	21	0.31	174	149
	66600N-71300E	328	1.4	4.28	21	653	0.7	5	0.41	0.7	34	39	76	149	7.22	1.16	13	20	1.52	1473	1	0.08	87	0.08	65	27	0.36	181	174
	66680N-71300E	426	1.4	4.24	14	678	0.7	5	0.55	0.2	38	38	67	161	7.18	0.95	14	23	1.70	1482	1	0.10	68	0.08	34	38	0.31	208	146
	66700N-70800E *	168	0.6	4.94	78	715	1.6	5	0.24	0.2	28	24	4	64	5.98	1.28	9	20	0.29	1275	1	0.19	8	0.10	14	35	0.06	165	100
	66700N-70850E	696	2.0	3.55	191	529	2.5	5	0.46	1.1	44	31	11	207	7.42	0.75	15	15	0.77	2404	7	0.07	16	0.12	30	41	0.16	116	161
	66700N-70900E	340	0.6	4.76	27	535	0.9	5	0.38	0.9	52	26	12	129	6.70	1.06	20	23	1.69	2499	16	0.05	27	0.09	6	33	0.21	106	207
	66700N-70950E	204	0.4	4.25	76	816	1.0	5	0.38	0.7	43	40	63	143	7.12	1.07	16	26	1.62	1627	6	0.05	77	0.08	3	30	0.31	169	184
	66700N-71000E	302	1.0	3.87	23	555	0.9	5	0.36	0.8	44	35	46	144	7.19	0.92	16	21	1.37	1664	8	0.05	64	0.08	31	35	0.24	150	195
	66700N-71050E	406	1.6	4.10	16	630	0.9	5	0.30	0.8	32	42	92	142	7.56	1.14	13	21	1.24	1547	3	0.05	103	0.08	46	41	0.25	176	189
	66700N-71100E	405	2.0	4.01	15	685	0.9	5	0.24	0.8	31	33	76	140	7.16	1.13	14	19	1.25	1442	2	0.06	76	0.08	95	23	0.26	170	199
	66700N-71150E	190	1.6	3.93	18	597	0.9	5	0.26	0.9	32	31	61	117	6.06	1.19	15	16	1.09	1178	3	0.06	73	0.07	59	26	0.17	142	182
	66700N-71200E	860	1.2	4.29	42	699	0.8	5	0.33	0.8	39	33	57	135	6.61	1.28	16	18	1.29	1425	2	0.07	68	0.08	58	24	0.25	161	179
	66700N-71250E	246	1.8	3.96	19	632	0.6	5	0.39	0.4	35	40	80	168	7.40	0.93	15	21	1.59	1352	2	0.07	75	0.08	50	24	0.30	214	162
	66800N-70950E *	92	0.8	4.39	12	622	1.4	5	0.18	1.1	65	25	17	114	5.07	1.35	29	17	1.55	874	1	0.04	53	0.07	16	15	0.14	122	220
	66800N-71000E	448	1.0	4.35	7	572	0.7	5	0.51	0.9	35	42	97	131	7.77	1.20	13	25	1.47	1229	1	0.10	107	0.08	26	28	0.42	155	196
	66800N-71050E	670	2.4	4.65	29	763	1.2	5	0.32	1.2	45	47	84	192	7.74	1.40	20	19	1.26	1368	5	0.07	114	0.09	62	41	0.23	194	217
	66800N-71100E	742	2.0	4.67	47	695	1.0	5	0.37	0.9	43	55	87	227	8.07	1.11	18	20	1.28	2155	4	0.08	98	0.10	71	40	0.21	191	184
	66800N-71150E	412	1.8	4.09	27	740	0.8	5	0.39	0.6	38	42	80	179	7.69	1.08	16	20	1.49	1708	1	0.07	80	0.09	68	26	0.33	184	166
	66800N-71200E	414	1.4	4.98	28	803	0.8	5	0.61	0.6	42	47	81	170	7.53	1.29	16	21	1.65	1519	1	0.11	93	0.08	42	32	0.32	187	163
	66800N-71250E	492	1.6	4.09	30	663	0.7	5	0.41	0.7	40	48	92	177	7.26	1.02	15	21	1.59	1539	2	0.07	85	0.08	36	26	0.32	199	166
	66800N-71300E	396	1.0	5.66	27	741	0.8	5	0.97	0.2	35	38	87	140	6.88	1.47	13	22	1.59	1401	1	0.23	111	0.09	9	55	0.37	163	150
	66800N-71350E	52	0.4	3.76	13	424	0.4	5	0.67	0.2	37	35	49	188	6.40	0.51	14	37	1.99	1587	1	0.06	49	0.08	2	35	0.33	213	104
	66800N-71400E	94	0.6	4.80	19	756	0.4	5	0.93	0.3	40	22	17	119	6.55	1.32	15	47	1.96	2136	1	0.06	29	0.09	4	57	0.32	124	155
	66800N-71450E	110	1.0	4.75	50	544	0.8	5	0.59	0.2	36	45	203	124	7.15	0.68	16	35	2.92	1526	1	0.06	217	0.08	52	33	0.29	213	156
	66900N-71050E	52	0.6	5.03	25	616	0.9	5	0.27	0.3	38	22	12	73	5.51	1.09	16	22	1.40	1722	1	0.05	31	0.09	10	28	0.14	102	170
	66900N-71100E	104	0.4	4.03	86	622	0.9	5	0.32	1.2	48	20	18	94	4.87	1.26	19	14	0.91	1490	5	0.10	42	0.08	16	23	0.17	106	212
	66900N-71150E *	97	0.4	4.17	122	733	0.8	5	0.09	0.8	38	18	26	64	4.21	1.50	16	14	0.85	1155	5	0.06	42	0.06	11	15	0.11	96	160
	66900N-71200E	112	0.4	4.90	75	506	1.1	5	0.23	4.0	55	72	17	218	7.47	1.15	24	23	1.77	2330	32	0.08	80	0.12	18	29	0.24	141	333
	66900N-71250E	146	0.6	4.17	15	548	0.6	5	0.41	0.4	56	14	7	56	4.48	1.29	20	18	1.28	1245	1	0.09	15	0.08	8	20	0.27	67	139
	66900N-71300E	98	0.2	3.54	48	437	0.5	5	0.34	1.0	43	23	11	106	5.68	0.82	18	28	1.38	1780	1	0.05	26	0.07	8	17	0.30	104	169
	66900N-71350E	50	0.2	3.70	83	488	0.5	5	0.45	0.7	39	21	16	81	5.41	0.89	17	24	1.27	1776	1	0.08	24	0.07	7	20	0.22	98	141
	66900N-71400E	130	0.6	4.51	39	597	0.6	5	0.45	0.4	36	23	29	94	6.05	1.10	15	27	1.56	1739	1	0.08	45	0.08	4	22	0.30	114	167
	66900N-71450E	1100	0.4	3.89	21	506	0.6	5	0.47	0.3	40	24	22	121	5.82	0.84	16	28	1.48	1497	1	0.07	31	0.08	12	22	0.30	135	143
	66900N-71500E	42	0.4	4.61	27	503</td																							

NORANDA VANCOUVER LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 9 silts - Soft S

Remarks:

* Sample screened @ -35 MESH (0.5 mm)

■ Organic, A Humus, S Sulfide

Geol.: G.G.

Sheet: 1 of 1

Date received: JULY 17

Date completed: JULY 25

LAB CODE:

9507-026

R #34563

ICP - 0.2 g sample digested with 3 ml $\text{HClO}_4/\text{HNO}_3$ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

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

I. D.	SAMPLE No.	Au	Ag	Al	Au	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Ca	Fe	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sr	Tl	V	Zn
		ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
66950N-71650E		136	1.0	4.81	6	938	0.9	5	0.47	1.4	34	51	77	200	7.90	1.18	14	28	2.14	1582	1	0.05	90	0.09	14	26	0.24	244	129
66950N-71750E		192	1.0	4.24	7	565	0.6	5	0.80	1.3	35	38	47	187	7.25	0.82	12	26	1.50	1473	1	0.16	56	0.09	10	41	0.30	241	119
66975N-71550E		166	0.8	4.97	15	473	0.7	5	0.50	1.6	34	41	81	109	6.49	1.10	12	33	1.97	1006	1	0.09	127	0.08	20	22	0.47	154	154
66975N-71600E		242	1.4	4.75	14	599	0.5	5	0.79	1.8	32	62	88	190	7.97	1.33	10	30	1.64	1269	1	0.10	145	0.07	16	28	0.49	155	159
67000N-71300E		1540	0.4	3.58	9	575	0.4	5	0.42	1.2	33	22	12	100	5.80	0.79	13	30	1.53	1790	1	0.03	20	0.08	21	18	0.38	145	124
67000N-71350E		64	0.2	4.29	9	505	0.5	5	0.39	0.8	34	18	17	91	5.08	0.84	14	32	1.58	1658	1	0.03	24	0.08	8	24	0.32	116	127
67000N-71400E		32	0.2	4.45	14	611	0.5	5	0.51	1.4	37	16	14	83	4.85	1.09	13	29	1.55	1479	1	0.09	25	0.08	12	21	0.32	96	136
67000N-71450E		224	0.6	4.41	50	613	0.5	5	0.56	1.4	39	25	18	102	5.45	1.16	14	28	1.54	2204	1	0.07	32	0.08	10	26	0.29	116	142
67000N-71500E		208	0.2	4.94	61	446	1.0	5	0.47	2.5	50	33	36	100	5.20	1.06	18	27	1.79	1800	2	0.06	70	0.07	16	23	0.20	123	206

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 11 Soils

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

** Organic, & Humus, Sulfide

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman P33000 ICP determined elemental contents.

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

Geol.: G.G.

Sheet: 1 of 1

Date received: JULY 24

Date completed: AUG. 01

LAB CODE: 9507-036

R #34585

E

I. S.	SAMPLE No.	Elemental Concentrations (ppm)																											
		An	Ag	Al	As	Ba	Be	Bi	Cn	Cd	Ce	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sr	Ti	V	Zn
	66200N-70350E	24	0.2	4.37	13	756	0.5	5	0.75	1.0	49	24	17	143	5.82	0.88	18	20	1.64	2537	1	0.03	34	0.08	3	41	0.32	122	145
	66200N-70400E	128	0.2	4.52	43	671	0.6	5	0.69	1.6	47	41	72	143	7.02	0.98	16	22	1.55	2095	2	0.04	86	0.08	9	40	0.35	157	164
	66200N-70450E	148	0.2	5.47	18	866	1.0	5	1.09	1.2	51	60	80	162	7.59	0.71	17	28	2.53	2782	1	0.05	106	0.12	6	63	0.24	224	117
	66200N-70500E	62	0.2	4.87	18	925	0.7	5	0.65	1.4	44	43	70	136	7.77	0.77	17	26	2.08	2773	3	0.05	68	0.10	8	58	0.21	240	161
	66200N-70550E	102	0.4	4.49	25	726	0.7	5	0.82	1.4	45	40	35	131	7.65	0.70	15	24	2.27	2533	1	0.04	39	0.10	17	50	0.30	230	134
	66200N-70600E	150	0.6	4.35	27	656	0.7	5	1.04	1.4	52	30	56	140	6.31	0.78	18	22	1.97	1279	1	0.04	64	0.10	11	65	0.38	166	134
	66200N-70650E	86	0.2	4.72	20	635	0.8	5	0.66	1.6	46	33	66	114	6.74	0.82	16	26	2.15	1641	1	0.04	68	0.12	10	42	0.41	185	149
	66200N-70700E	82	0.2	4.20	23	512	0.6	5	0.55	1.9	38	27	42	90	6.18	0.72	13	20	1.62	1583	1	0.05	49	0.09	14	40	0.21	164	122
	66200N-70750E	776	1.8	4.66	39	746	0.7	5	0.55	1.4	40	36	32	211	6.97	0.72	15	27	1.71	2610	1	0.05	44	0.08	24	34	0.25	170	142
	66200N-70800E	202	0.6	4.20	27	530	0.6	5	0.61	1.1	40	24	26	128	6.11	0.86	15	24	1.59	1734	1	0.04	35	0.09	28	34	0.26	152	158
	66200N-70850E	468	1.8	4.60	45	697	1.0	5	0.38	2.5	35	45	86	134	7.50	0.99	13	21	1.27	1915	4	0.06	114	0.08	139	43	0.18	185	229

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NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 9 Soils

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

Organic, A Humus, S Sulfide

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

Geol.: G.G.

Sheet: 1 of 1

Date received: AUG. 29

Date completed: SEP. 01

LAB CODE:

9508-025

R #34565/94

S.O.	SAMPLE No.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sr	Ti	V	Zn
		ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm		
	GM0398 talus	50	0.2	7.52	2	889	0.7	5	7.99	0.2	35	25	13	79	4.49	0.60	9	13	0.94	1358	1	0.78	16	0.08	2	239	0.05	249	66
	GM0403	228	0.2	5.23	3	1548	0.4	5	1.23	1.4	44	38	40	174	7.26	0.70	13	31	2.37	2854	1	0.18	55	0.10	16	42	0.22	245	246
	GM0404	88	0.2	5.63	4	685	0.5	5	1.96	0.3	43	36	21	111	7.41	0.43	12	27	3.03	1934	1	0.20	25	0.14	2	68	0.39	225	128
	GM0406	90	0.2	5.84	2	1543	0.4	5	2.05	0.4	39	37	30	35	7.33	0.71	11	34	3.80	1976	1	0.22	39	0.08	2	28	0.49	242	108
	GM0407	24	0.2	5.00	3	613	0.4	5	1.80	0.2	45	46	27	177	7.12	0.43	12	27	3.09	1960	1	0.12	33	0.12	2	136	0.44	221	126
	GM0408	102	0.2	4.50	13	502	0.4	5	1.32	0.2	42	38	18	151	6.72	0.45	12	29	2.91	1866	1	0.11	28	0.10	2	55	0.38	199	109
	GM0409	88	0.2	4.37	14	589	0.4	5	1.27	0.3	44	30	23	217	6.67	0.39	13	29	2.65	1723	1	0.12	24	0.11	2	44	0.38	218	117
	GM0411	384	1.0	3.59	54	309	0.2	5	1.17	0.8	37	35	63	165	6.33	0.37	12	24	2.75	1189	5	0.06	61	0.07	2	35	0.28	281	144
	GM0412 talus	80	0.2	3.25	10	630	0.3	5	0.61	0.2	33	20	19	94	5.74	0.66	10	23	1.37	1633	1	0.06	18	0.07	2	22	0.24	151	110

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149
 Material: 14 Rx

Geol.: G.G.
 Sheet: 1 of 1

Date received: JUNE 27
 Date completed: JULY 04

LAB CODE: 9506-029
 R #34577

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

Organic, & Humus, S Sulfide

Au - silt & soil, 15.0 g sample digested with aqua-regia and determined by A.A. (D.L. 2 PPB), Rx, 10.0 g/AR/AA (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 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

LT. 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
56	GG0510 rx	60	1.0	0.11	2	18	0.2	5	1.24	0.2	22	4	221	10	0.77	0.06	2	1	0.08	195	1	0.02	8	0.01	2	35	0.01	18	9
57	GG0511	305	1.2	0.70	7	114	0.5	5	6.05	0.2	35	7	143	18	1.83	0.36	6	4	0.34	645	2	0.03	20	0.02	3	183	0.07	56	25
58	GG0519	310	3.0	0.08	2	23	0.2	5	0.11	8.1	5	2	187	11	0.57	0.04	2	1	0.02	113	1	0.01	4	0.01	4	5	0.01	8	248
59	GG0520	30	0.4	0.12	2	28	0.2	5	0.50	0.2	17	3	227	20	0.73	0.05	4	1	0.01	216	1	0.01	8	0.05	2	18	0.01	17	15
70	GG0521	15550	13.6	0.02	2	5	0.2	5	0.04	0.2	5	1	220	4	0.34	0.01	1	1	0.01	67	1	0.01	3	0.01	2	2	0.01	2	6
71	GG0525	80	1.0	3.41	22	813	2.0	5	5.26	0.7	51	24	132	67	5.64	0.93	16	19	2.55	991	2	0.09	74	0.10	5	209	0.05	165	104
72	GG0526	65	0.4	0.68	2	261	1.0	5	0.94	0.9	23	7	135	99	1.56	0.30	4	2	0.14	236	1	0.03	10	0.03	2	40	0.03	56	45
73	GG0527	195	0.4	3.08	5	940	2.3	5	4.51	0.9	40	36	180	64	6.46	1.24	11	9	1.27	718	1	0.08	98	0.05	2	145	0.16	166	137
75	GG0528	715	1.8	0.31	2	114	0.8	5	0.25	0.8	8	8	221	151	1.40	0.13	3	1	0.04	139	1	0.02	20	0.01	147	15	0.03	29	96
76	GG0529	90	0.2	2.94	12	744	1.2	5	4.88	0.3	41	35	210	79	6.74	1.25	12	10	0.82	695	1	0.08	101	0.05	2	148	0.35	186	136
77	GG0535	270	0.6	0.06	2	22	0.2	5	0.10	0.2	8	1	230	3	0.39	0.03	2	1	0.01	46	1	0.01	5	0.01	2	9	0.01	5	8
78	GG0536	5	0.6	0.10	2	245	0.7	5	0.05	0.6	7	1	196	7	0.29	0.03	4	1	0.01	36	1	0.01	2	0.01	7	17	0.01	4	36
79	GG0537	5	0.6	0.04	4	34	0.2	5	3.10	0.7	54	1	192	7	0.29	0.02	13	2	0.01	147	1	0.02	2	0.01	77	571	0.01	10	37
80	GG0538 rx	5	0.2	0.07	2	38	0.2	5	0.03	0.2	7	1	188	10	0.38	0.03	3	1	0.01	39	1	0.01	2	0.01	12	11	0.01	6	15

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 93 Rx

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

■ Organic, A Humus, S Sulphide

Geol.: G.G.

Sheet 1 of 3

Date received: JULY 11

LAB CODE: 9507-016

Date completed: JULY 14

R #34581

Au - silt & soil, 15.0 g sample digested with aqua-regia and determined by A.A. (D.L. 2 PPB); Rx, 10.0 g/AR/AA (DL 5 PPB)

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

T. lo.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Cn %	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
JH0001		530	2.0	0.92	2	119	0.4	5	10.13	0.2	62	17	57	150	3.61	0.20	6	12	0.30	1516	4	0.08	17	0.06	2	194	0.02	88	37
JH0002		115	1.4	1.15	20	193	0.5	5	11.18	0.2	61	25	59	101	4.34	0.36	8	8	0.16	1641	2	0.11	21	0.05	3	227	0.02	85	29
JH0003		120	1.8	1.13	3	83	0.5	5	16.55	0.2	44	24	38	211	3.56	0.19	3	12	0.49	2266	4	0.18	18	0.05	7	470	0.01	68	36
JH0004		95	0.6	2.11	2	230	0.6	5	11.16	0.2	55	22	127	65	5.14	0.40	7	18	0.60	1705	1	0.22	52	0.06	2	238	0.03	148	63
JH0005		95	1.2	1.16	2	225	0.7	5	21.56	0.2	23	20	42	94	3.70	0.31	3	12	0.56	3013	3	0.12	20	0.04	13	622	0.01	107	40
JH0006		40	0.6	0.13	2	85	0.5	5	25.80	0.2	5	9	14	52	1.15	0.08	1	6	0.22	2993	5	0.05	5	0.02	9	832	0.01	42	9
JH0007		35	0.2	0.48	2	90	0.5	5	18.85	0.2	20	6	17	52	1.66	0.12	1	8	0.29	2153	7	0.08	5	0.04	6	524	0.01	48	20
JH0008		25	0.6	0.46	2	84	0.5	5	21.97	0.2	5	10	16	59	1.86	0.11	1	8	0.22	2676	3	0.08	8	0.03	8	626	0.01	48	16
JH0009		5	0.2	0.64	2	137	0.7	5	24.34	0.3	5	6	13	28	1.91	0.17	1	10	0.42	3367	6	0.10	11	0.03	14	850	0.01	63	29
JH0010		35	0.8	0.33	2	66	0.5	5	23.72	0.2	5	7	34	207	1.37	0.14	1	7	0.28	2449	5	0.05	8	0.02	10	587	0.01	52	18
JH0011		20	0.6	2.01	2	265	0.4	5	3.68	0.8	45	16	53	135	4.29	0.40	11	16	1.07	813	2	0.12	6	0.07	2	98	0.12	129	67
JH0012		25	0.6	1.52	9	91	0.3	5	7.43	0.9	59	12	64	97	3.92	0.13	11	19	1.48	1240	5	0.13	11	0.05	4	199	0.03	94	70
JH0013		30	0.2	0.66	2	167	0.3	5	6.36	0.7	53	6	134	20	1.32	0.29	9	5	0.21	642	7	0.05	3	0.02	2	144	0.02	40	24
JH0014		45	1.0	1.49	2	138	0.4	5	8.76	0.9	64	12	33	94	3.10	0.16	10	17	0.88	1399	7	0.18	10	0.11	8	286	0.02	75	58
JH0015		60	0.2	1.66	6	171	0.6	5	12.47	1.1	59	16	20	104	3.50	0.22	9	19	0.59	1992	16	0.26	17	0.10	13	358	0.03	84	55
JH0016		40	1.4	1.61	11	169	0.5	5	9.07	0.9	72	20	23	236	3.77	0.41	12	17	1.18	1444	9	0.14	13	0.09	10	254	0.07	90	80
JH0017		35	0.4	1.97	6	101	0.5	5	11.53	1.2	64	18	25	130	4.49	0.16	10	24	1.65	1820	5	0.18	16	0.08	9	318	0.04	114	91
JH0018		30	0.4	1.57	2	185	0.7	5	14.45	1.1	60	16	17	135	3.75	0.37	8	17	1.10	2310	7	0.16	14	0.08	13	411	0.05	95	53
JH0020		45	1.0	1.40	3	174	0.6	5	12.51	1.9	59	13	22	103	2.98	0.33	9	17	0.96	1875	7	0.14	11	0.07	14	377	0.03	80	96
JH0021		40	0.2	1.75	4	329	0.6	5	8.97	0.3	67	16	44	165	3.25	0.64	9	13	0.51	1432	9	0.13	13	0.08	12	242	0.05	92	42
JH0022		45	0.8	1.87	2	222	0.5	5	7.45	0.7	72	12	20	105	4.14	0.41	11	21	0.87	1355	24	0.16	15	0.09	10	166	0.05	104	84
JH0023		30	0.4	6.02	2	1532	0.8	5	3.44	0.3	61	17	7	90	5.30	2.71	14	15	0.46	977	3	0.14	4	0.10	6	46	0.16	146	50
JH0024		40	0.8	2.85	2	745	0.7	5	7.17	0.3	72	17	17	182	5.18	1.24	14	15	1.34	1288	4	0.09	10	0.08	9	168	0.17	149	79
JH0025		100	0.8	1.46	5	213	0.8	5	9.56	0.5	70	12	36	108	4.34	0.68	12	12	1.21	1498	8	0.08	18	0.08	13	287	0.08	125	71
GM0054		40	0.8	0.72	5	170	0.5	5	9.00	0.3	64	7	74	56	2.12	0.25	10	8	0.26	1396	6	0.07	7	0.05	8	220	0.02	64	34
GM0055		30	0.4	0.83	4	293	0.6	5	12.12	0.5	59	6	41	56	2.62	0.30	10	9	0.36	1916	5	0.07	7	0.05	10	275	0.03	80	51
GM0056		60	0.2	3.39	3	1318	1.0	5	2.50	0.2	53	12	26	44	4.01	1.65	10	19	0.88	857	1	0.10	5	0.08	18	52	0.10	111	68
GM0059		125	0.2	1.89	2	431	0.8	5	3.34	1.4	57	16	100	52	4.31	0.68	13	13	0.99	803	4	0.08	16	0.07	12	64	0.18	123	72
GM0060		15	0.2	2.74	2	706	0.5	5	4.94	0.7	73	18	47	59	4.58	1.30	16	17	1.30	898	2	0.09	13	0.08	7	85	0.36	134	74
GM0061		160	1.0	1.98	2	907	1.6	5	2.37	4.4	61	12	107	45	3.70	0.78	11	11	0.49	609	6	0.09	10	0.07	117	69	0.11	79	236
GM0062		165	0.4	2.67	2	959	1.0	5	4.39	0.7	72	11	27	59	4.29	1.29	15	17	0.68	1001	3	0.09	4	0.08	11	171	0.33	104	75
GM0065		55	0.2	2.41	2	698	1.1	5	3.86	0.8	71	17	74	57	4.33	0.93	15	13	0.58	828	3	0.09	19	0.09	9	60	0.10	149	79
GM0067		35	0.8	0.06	8	16	0.2	5	3.42	1.3	57	3	171	30	0.70	0.04	7	4	0.18	426	9	0.02	12	0.01	24	122	0.01	19	34
GM0068		60	1.0	3.03	20	355	1.1	5	8.19	2.2	68	39	558	34	5.51	0.35	15	21	6.29	1285	2	0.04	290	0.09	119	333	0.04	170	190
GM0069		90	2.0	2.50	4	474	0.9	5	3.29	1.3	66	25	81	71	5.77	0.69	15	21	2.24	933	3	0.08	39	0.10	530	132	0.24	160	141

1987 9W 99
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T. lo.	SAMPLE No.	8607-016																											
		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Cr ppm	Co ppm	Cr ppm	Cs ppm	Fe %	K %	La ppm	Li ppm	Mg %	Ma ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
3	GM0070	100	2.6	0.22	6	39	0.4	5	6.14	4.2	62	5	188	36	1.41	0.10	6	4	0.20	829	10	0.03	22	0.04	117	160	0.01	53	193
3	GM0071	25	0.4	3.29	4	97	0.8	5	6.76	1.6	67	44	669	38	5.43	0.16	17	20	7.02	1116	1	0.03	342	0.10	24	200	0.05	148	198
3	GM0072	5	0.4	2.54	13	217	1.4	5	7.76	1.2	71	44	657	56	5.45	0.58	19	27	6.19	1277	1	0.05	313	0.11	22	341	0.06	177	135
1	GM0073	40	1.0	1.45	5	319	1.1	5	8.50	0.5	69	17	68	63	4.39	0.61	12	9	1.30	1269	4	0.08	28	0.07	16	286	0.08	135	70
2	GM0074	695	24	0.08	4	22	0.2	5	1.06	0.4	30	4	215	23	0.89	0.03	4	2	0.11	238	10	0.02	10	0.02	159	36	0.01	15	33
3	GM0075	120	0.6	2.11	18	241	1.3	5	7.68	1.1	65	32	438	49	5.05	0.43	15	18	4.51	1209	2	0.05	185	0.07	38	401	0.04	191	120
1	GM0076	5	0.2	4.34	2	317	0.4	5	6.78	0.6	79	24	35	169	5.08	0.49	16	23	1.50	1781	2	0.07	18	0.09	2	183	0.18	136	169
3	GM0077	55	1.2	1.95	2	730	1.5	5	3.86	1.6	64	16	63	95	4.70	0.86	13	10	1.09	1016	5	0.09	16	0.09	19	126	0.12	154	117
3	GM0078	115	1.6	3.58	2	1330	2.3	5	4.39	0.6	73	23	43	125	5.88	1.51	17	13	1.58	1119	14	0.11	23	0.10	26	149	0.09	203	96
7	GM0079	250	0.8	0.28	8	98	0.5	5	2.63	0.6	50	3	211	21	0.72	0.12	5	4	0.13	356	9	0.02	10	0.01	27	74	0.01	39	26
3	GM0080	150	0.4	1.87	2	583	0.6	5	1.53	0.9	39	6	96	38	1.91	0.85	8	8	0.35	389	5	0.06	3	0.04	23	35	0.08	55	77
1	GM0081	75	0.6	2.50	23	530	0.5	5	5.41	0.4	65	12	50	137	3.58	0.98	12	22	0.73	748	5	0.08	10	0.06	13	133	0.16	89	48
2	GM0083	5	0.2	3.11	2	626	0.5	5	8.23	0.4	60	19	34	41	4.17	0.71	11	28	1.55	1151	3	0.05	16	0.06	7	162	0.10	125	67
1	GM0084	160	1.0	3.29	2	429	0.5	5	4.92	0.5	54	16	67	56	4.36	0.85	11	21	1.04	832	7	0.09	15	0.06	4	78	0.06	130	65
1	GM0085	5	0.2	5.67	2	904	0.6	5	3.62	0.2	55	21	11	46	6.27	1.45	13	33	1.52	838	1	0.10	9	0.08	2	29	0.08	176	105
1	GM0086	75	2.0	2.25	3	227	0.4	5	6.71	0.5	65	17	53	123	3.81	0.36	11	21	1.18	1089	5	0.09	14	0.05	8	141	0.04	111	58
1	GM0087	40	0.2	2.28	2	441	0.5	5	5.80	0.4	60	12	85	87	3.53	0.72	12	15	0.57	803	7	0.12	11	0.08	4	107	0.12	103	49
1	GM0088	75	0.6	2.06	2	605	0.7	5	6.30	0.6	64	11	56	87	2.91	0.81	12	11	0.40	896	6	0.10	11	0.06	5	149	0.12	99	39
1	GM0089	275	0.6	2.46	2	665	0.8	5	4.26	0.3	58	18	70	100	4.20	0.81	14	14	0.82	777	9	0.11	16	0.08	5	128	0.08	119	59
1	GM0090	175	1.8	1.54	24	849	4.1	5	3.80	2.6	51	20	96	111	4.89	0.61	13	8	0.39	797	4	0.09	28	0.09	4	111	0.05	195	164
GM0091		85	1.2	2.19	5	1002	1.8	5	3.30	1.4	57	17	62	73	4.39	0.85	11	11	0.98	775	4	0.09	12	0.05	11	211	0.12	129	92
GM0092		330	3.8	0.16	2	67	0.2	5	0.11	1.1	7	3	287	72	0.72	0.05	2	2	0.03	145	13	0.02	6	0.01	46	8	0.01	13	82
GM0093		65	0.4	3.03	2	1544	1.9	5	2.46	0.8	55	14	43	90	5.09	1.16	14	14	0.78	796	5	0.12	6	0.07	14	160	0.26	131	105
GM0094		40	0.6	2.68	2	2016	3.3	5	7.61	2.0	82	20	25	54	5.33	1.10	16	13	1.45	1149	1	0.11	9	0.06	11	618	0.12	193	135
GM0097		20	0.2	1.92	2	687	1.8	5	0.07	0.2	14	5	226	64	2.60	0.85	4	3	0.11	105	8	0.06	15	0.03	4	24	0.06	137	17
GM0098		370	0.6	2.20	2	578	2.0	5	0.82	0.7	32	24	237	90	4.87	1.03	10	7	0.32	251	5	0.08	81	0.04	3	79	0.27	151	135
GG0572		5	0.2	2.79	2	165	0.4	5	2.66	0.6	65	16	27	87	5.32	0.30	13	24	1.59	855	7	0.12	19	0.07	5	39	0.04	139	97
GG0573		10	0.2	2.85	2	372	0.4	5	4.88	0.4	77	18	21	24	6.34	0.46	17	21	2.65	1217	4	0.10	21	0.09	2	54	0.40	220	111
GG0574		25	0.6	2.31	2	206	0.5	5	7.53	0.6	84	17	24	108	4.88	0.35	15	19	1.53	1281	5	0.09	17	0.05	7	194	0.05	147	82
GG0575		150	1.2	1.47	3	148	0.4	5	8.71	0.9	86	11	31	108	3.25	0.29	13	13	0.88	1236	31	0.09	12	0.04	9	183	0.08	91	51
GG0579		5	0.2	0.82	4	251	0.5	5	12.12	0.5	72	10	109	19	2.18	0.30	9	11	0.42	1468	7	0.06	5	0.04	6	263	0.08	64	26
GG0580		15	0.2	1.61	2	139	0.4	5	10.74	0.7	80	14	18	67	3.41	0.26	12	19	0.82	1368	7	0.08	16	0.07	6	218	0.02	92	56
GG0581		90	0.4	0.03	4	5	0.2	5	3.16	0.3	51	2	205	18	0.51	0.02	6	3	0.03	441	11	0.02	5	0.01	6	86	0.01	8	4
GG0582		15	0.2	0.10	5	19	0.2	5	3.67	0.7	47	3	163	24	0.85	0.04	5	2	0.05	524	17	0.04	4	0.02	3	109	0.01	11	7
GG0583		935	2.6	0.03	3	6	0.2	5	0.67	0.2	16	2	256	22	1.14	0.01	3	1	0.01	158	10	0.01	2	0.01	16	21	0.01	4	5
GG0589		325	0.4	0.15	2	88	0.5	5	0.04	0.2	5	4	242	30	1.00	0.05	1	1	0.01	81	10	0.02	7	0.01	18	4	0.01	10	31
GG0591		530	2.8	0.16	3	36	0.2	5	0.22	2.3	5	4	246	28	1.27	0.05	1	1	0.04	191	49	0.02	18	0.02	84	8	0.01	20	132
GG0593		20	1.4	2.70	33	118	1.2	5	7.53	1.8	44	34	565	54	4.98	0.16	13	19	5.47	1201	2	0.04	270	0.09	308	321	0.04	136	127
GG0594		80	0.8	2.07	2	778	1.5	5	4.03	1.4	37	17	71	98	4.97	0.92	10	10	1.14	1077	5	0.09	17	0.09	16	135	0.12	165	123
GG0595		50	0.2	2.91	10	1207	1.5	5	1.44	0.3	21	10	16	65	4.06	1.28	6	12	0.51	621	1	0.10	6	0.04	11	24	0.07	115	59

SAMPLE No.	Am 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 %	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm	6507-018 Pg. 3 of 3
GG0596	55	0.6	3.34	2	919	1.1	5	2.43	0.6	37	12	52	57	3.91	1.49	8	12	0.64	671	4	0.12	26	0.05	54	57	0.09	124	74	
GG0597	30	0.6	3.65	2	1122	1.3	5	2.06	1.3	39	10	24	69	2.96	1.69	9	12	0.34	722	4	0.09	6	0.04	59	44	0.06	80	61	
GG0598	35	1.2	3.99	2	1365	1.7	5	1.09	4.1	29	10	20	47	3.52	1.79	9	14	0.50	595	3	0.11	6	0.04	157	24	0.10	97	252	
GG0599	25	0.6	5.20	2	1360	0.9	5	1.93	1.6	50	10	9	62	3.21	2.36	14	17	0.47	503	3	0.12	4	0.07	28	33	0.10	63	83	
GG0600	30	1.4	5.08	2	1249	0.5	5	2.12	0.6	44	11	11	71	3.41	2.24	11	17	0.47	585	2	0.13	3	0.06	30	28	0.12	76	55	
GG0601	5	0.2	4.85	2	1271	0.6	5	2.55	0.2	50	10	14	34	3.97	2.04	11	20	0.68	728	2	0.11	3	0.04	2	34	0.16	91	62	
GG0602	10	0.2	0.08	8	27	1.0	5	3.41	0.4	52	2	241	14	0.56	0.04	5	3	0.04	379	11	0.02	4	0.01	9	93	0.01	13	8	
GG0603	80	0.2	2.96	2	690	0.8	5	4.00	0.4	63	20	59	82	5.58	1.15	15	15	0.74	1054	4	0.10	19	0.12	2	62	0.31	175	90	
GG0604	65	0.6	1.06	14	521	1.1	5	7.30	1.3	79	11	95	37	3.09	0.49	12	8	0.72	940	8	0.07	12	0.06	18	188	0.13	106	119	
GG0605	130	1.2	0.28	10	130	0.6	5	7.26	1.7	65	5	169	29	1.71	0.12	6	5	0.13	974	8	0.03	21	0.01	58	182	0.01	50	123	
GG0606	130	0.6	0.05	2	16	0.2	5	0.32	0.3	11	2	281	26	0.71	0.02	2	1	0.01	183	10	0.01	4	0.01	20	10	0.01	6	24	

(E)

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: MARIPOSITE - 149 (HEMLO)

Material: 15 Rx

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

** Organic, A Humus, S Sulfide

Geol.: G.G.

Sheet: 1 of 1

Date received: JULY 14

Date completed: JULY 19

LAB CODE: 9507-024

R #34580

Au - silt & soil, 15.0 g sample digested with aqua-regia and determined by A.A. (D.L. 2 PPB); Rx, 10.0 g/AR/AA (DL 5 PPB)

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, La, Li, Ga 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	Ca 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
170	LE0503	35	0.2	2.43	10	783	0.7	5	2.00	0.6	47	15	66	13	3.81	0.92	10	10	0.70	728	1	0.11	5	0.05	13	62	0.10	88	80
171	LE0504	15	0.2	2.97	14	875	0.7	5	0.93	0.3	49	6	44	30	1.48	0.82	12	9	0.38	461	1	0.07	13	0.04	41	17	0.05	59	53
172	LE0505	405	0.2	3.34	167	923	1.4	5	4.07	0.7	72	21	29	68	4.29	1.28	15	17	1.61	1167	1	0.11	6	0.08	7	109	0.08	163	68
173	LE0510	80	0.2	1.27	21	215	0.5	5	1.62	0.4	65	7	133	24	1.90	0.46	16	8	0.30	360	1	0.06	19	0.04	6	41	0.05	54	45
174	LE0512	130	0.8	3.87	11	842	1.0	5	4.73	0.2	81	29	150	201	4.58	1.71	12	13	0.69	854	11	0.11	85	0.04	13	84	0.07	152	64
175	LE0522	7200	16.6	0.33	5	53	0.3	5	2.91	0.5	60	5	229	35	1.17	0.15	9	5	0.07	459	3	0.04	6	0.02	288	91	0.01	39	31
176	LE0523	65	0.2	0.19	2	45	0.2	5	0.71	1.7	22	3	262	16	0.55	0.08	6	3	0.03	174	1	0.02	4	0.01	41	20	0.01	20	51
177	LE0524	15	0.2	0.04	7	11	0.2	5	2.20	0.3	39	1	279	6	0.37	0.03	7	3	0.02	293	1	0.02	4	0.01	2	60	0.01	8	4
178	LE0527	100	0.2	1.90	2	398	0.4	5	0.40	0.2	29	4	77	31	1.44	0.79	14	4	0.08	322	1	0.13	1	0.02	5	18	0.02	24	15
179	LE0528	15	0.2	3.34	3	653	0.5	5	1.96	0.5	53	7	40	81	2.89	1.11	14	13	0.64	754	1	0.21	3	0.06	3	57	0.06	54	48
180	LE0531	45	0.2	2.33	32	568	0.5	5	0.95	0.2	43	6	46	30	2.41	0.98	14	11	0.30	652	1	0.10	7	0.04	4	20	0.09	49	57
181	GG0546	5	0.2	2.52	27	218	0.9	5	7.02	0.7	90	28	394	35	4.31	0.55	15	20	3.83	1192	1	0.10	157	0.06	11	219	0.03	114	94
182	GG0554	5	0.2	0.11	2	34	0.2	5	0.68	0.2	23	3	256	10	0.66	0.04	4	2	0.04	307	1	0.01	5	0.04	2	23	0.01	7	36
183	GG0561	10	0.2	4.02	2	453	0.3	5	2.93	0.2	50	38	165	101	7.63	0.55	15	24	1.40	646	1	0.09	124	0.05	2	183	0.77	116	116
184	GG0566	5	0.2	0.56	5	328	0.3	5	2.37	0.2	60	5	52	19	2.12	0.23	13	4	0.30	700	1	0.10	4	0.05	2	63	0.06	37	30

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NORANDA VANCOUVER LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 69 RX

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

** Organic, ▲ Humus, S Sulphide

Geol.: G.G.

Sheet: 1 of 2

Date received: JULY 17

Date completed: JULY 25

LAB CODE: 9507-026

R #34582

Au - silt & soil, 15.0 g sample digested with aqua-regia and determined by A.A. (D.L. 2 PPB); Rx, 10.0 g/AR/AA (DL 5 PPB)

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

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
RC0008	360	1.0	0.86	5	161	0.3	5	0.74	0.2	28	4	287	9	1.08	0.37	7	2	0.07	326	12	0.03	10	0.04	11	15	0.02	30	20
RC0010	10	0.2	3.30	40	502	1.5	5	5.36	1.3	46	32	273	29	5.92	0.85	13	20	3.42	1472	7	0.05	78	0.09	21	266	0.12	167	163
RC0013	20	0.2	1.92	8	237	0.2	5	1.31	0.4	37	14	79	27	3.35	0.38	10	23	1.21	761	4	0.03	16	0.05	3	23	0.19	102	53
RC0014	30	0.2	3.21	13	568	0.4	5	4.42	1.1	51	12	59	44	4.52	1.07	10	24	1.10	1389	5	0.14	6	0.06	6	56	0.24	94	105
RC0015	325	0.2	2.89	3	738	0.5	5	1.51	3.9	38	28	111	63	4.93	1.05	10	14	0.69	896	9	0.09	11	0.04	2	28	0.26	82	640
RC0016	50	0.2	3.03	7	792	0.3	5	2.21	0.7	46	15	22	54	6.11	1.31	11	26	1.55	1454	1	0.13	4	0.07	3	26	0.45	141	30
RC0017	15	0.2	3.76	16	842	1.0	5	3.39	7.6	50	13	118	42	3.70	1.67	10	9	0.76	709	7	0.07	34	0.06	306	46	0.10	126	496
RC0018	5	0.2	4.79	41	491	0.6	5	4.42	1.3	56	53	295	100	7.12	1.29	11	29	2.36	1088	1	0.09	276	0.08	6	25	0.42	195	114
RC0019	15	0.2	0.18	2	27	0.2	5	0.52	0.2	11	4	236	12	1.18	0.07	2	1	0.03	284	9	0.02	15	0.01	2	4	0.01	12	14
RC0020	20	0.2	3.25	17	478	0.3	5	4.98	0.6	47	42	146	68	6.30	1.08	8	23	1.57	765	1	0.11	99	0.05	3	30	0.56	190	98
RC0021	10	0.2	2.28	2	55	1.6	5	0.08	0.2	6	3	30	19	0.86	0.95	1	2	0.03	92	1	0.11	4	0.01	17	9	0.02	5	16
RC0022	10	0.2	3.56	19	180	0.6	5	8.72	1.1	49	21	130	92	4.90	0.27	7	25	2.29	1144	4	0.32	41	0.04	5	75	0.05	225	101
RC0023	15	0.2	0.54	2	73	0.2	5	0.62	0.2	13	6	251	30	1.45	0.23	1	1	0.04	145	9	0.02	18	0.01	2	8	0.02	19	9
RC0024	50	0.2	2.01	5	474	0.8	5	2.73	0.3	55	18	189	36	4.04	0.73	9	11	1.08	746	7	0.05	35	0.05	9	74	0.03	158	63
RC0025	10	0.2	1.38	17	387	0.8	5	8.43	0.9	77	18	137	46	5.09	0.61	14	8	2.92	1664	4	0.06	43	0.05	9	265	0.02	117	65
RC0027	240	0.2	3.37	3	821	1.5	5	4.90	0.3	59	20	100	19	5.04	1.34	10	14	0.96	1077	2	0.08	39	0.08	6	87	0.07	226	89
RC0029	1495	9.2	0.20	10	56	0.2	5	9.41	0.2	56	5	94	36	0.85	0.10	4	4	0.09	1294	7	0.03	9	0.01	155	338	0.01	26	17
RC0030	415	11.2	1.11	10	279	0.4	5	8.28	1.1	57	10	213	34	2.23	0.51	6	6	0.32	1265	14	0.05	24	0.02	525	212	0.02	78	49
RC0031	95	0.2	1.73	4	195	0.4	5	2.37	0.4	54	20	126	110	5.88	0.44	10	10	0.86	800	5	0.07	26	0.07	34	30	0.03	109	64
RC0032	650	11.4	1.24	103	240	0.6	5	15.17	1.2	58	21	345	41	3.33	0.46	6	8	1.61	1999	7	0.08	136	0.03	1228	496	0.01	104	43
RC0034	280	34.4	0.13	8	15	0.2	15	1.08	1.0	39	15	193	121	3.30	0.05	5	2	0.06	305	27	0.02	7	0.09	7240	23	0.01	10	15
RC0035	175	0.2	0.10	3	24	0.2	5	2.82	0.2	47	4	255	52	1.10	0.04	3	3	0.04	388	10	0.02	11	0.01	10	93	0.01	10	8
RC0037	35	0.2	0.04	2	9	0.2	5	0.11	0.2	9	2	253	12	0.73	0.02	1	1	0.02	50	10	0.01	11	0.01	2	4	0.01	4	3
RC0038	-215000	1060.0	0.07	13	9	0.2	19	1.71	0.2	38	8	259	103	2.72	0.02	2	1	0.02	383	14	0.01	37	0.01	588	52	0.01	6	13
RC0039	3265	14.0	3.65	2	589	0.8	5	0.40	0.2	22	8	150	235	11.53	1.53	6	5	0.23	579	1	0.09	42	0.06	17	36	0.12	143	62
RC0040	20	0.2	2.07	21	297	0.8	5	6.54	0.3	58	16	156	32	3.65	0.50	6	15	1.83	1013	6	0.14	48	0.05	10	201	0.02	115	53
RC0042	10	0.2	0.34	45	25	0.2	5	5.19	0.2	56	3	193	16	1.34	0.10	4	6	0.15	831	9	0.03	8	0.04	3	80	0.01	18	12
RC0044	50	0.2	0.04	4	11	0.2	5	2.44	0.3	48	1	260	8	0.46	0.03	4	3	0.03	264	10	0.02	4	0.01	4	72	0.01	7	33
RC0045	225	0.2	3.05	26	1045	1.4	5	13.50	0.4	142	16	197	165	5.15	1.49	12	13	0.65	1938	17	0.11	22	0.09	16	342	0.08	325	66
RC0046	5	0.2	5.50	2	718	0.4	5	3.03	0.5	54	22	27	122	6.11	1.58	13	31	1.29	917	1	0.12	18	0.07	2	36	0.12	229	98
RC0048	20	1.8	0.48	2	71	0.2	5	0.11	0.2	5	39	162	344	6.72	0.18	4	1	0.04	128	4	0.02	5	0.02	2	5	0.01	30	33
RC0049	3050	8.0	0.77	6	235	0.4	5	2.11	0.2	49	7	172	36	1.75	0.35	6	4	0.14	416	12	0.04	16	0.02	20	41	0.02	113	31
RC0051	340	2.0	0.38	8	107	0.3	5	3.84	0.2	45	12	120	89	1.68	0.18	6	3	0.06	439	10	0.03	19	0.05	6	124	0.02	78	17
GM0095	170	0.8	2.44	44	732	1.3	5	2.99	0.9	45	19	144	71	3.48	1.13	8	8	0.63	509	5	0.06	51	0.03	3	177	0.08	91	59
GM0096	20	1.0	1.04	10	465	0.9	5	2.43	1.3	49	11	125	103	3.43	0.35	9	5	0.68	572	6	0.08	12	0.05	19	134	0.08	84	101

PT. 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 ppm	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
166	GM0104	70	0.6	3.97	68	724	0.3	5	0.54	0.2	34	18	47	78	6.67	1.74	13	21	1.52	451	4	0.09	24	0.06	7	22	0.36	163	117
167	GM0105	4750	116.0	4.05	860	908	1.4	7	7.54	0.4	62	21	33	122	4.69	1.81	10	8	0.37	1071	32	0.10	22	0.07	47	185	0.04	126	23
168	GM0106	115	1.2	3.98	8	924	0.8	5	2.91	0.1	58	17	48	46	5.16	1.61	12	13	1.01	762	3	0.10	14	0.06	27	56	0.16	131	191
169	GM0109	415	2.0	1.98	37	563	0.8	5	4.76	0.4	64	12	108	37	3.53	0.85	10	10	0.76	760	8	0.08	13	0.06	41	136	0.12	102	58
170	GM0112	45	0.2	2.62	8	577	0.4	5	2.47	0.2	50	13	61	45	4.11	0.92	9	10	0.70	830	5	0.08	7	0.04	3	50	0.18	113	33
171	GM0113	920	3.4	3.73	9	993	0.6	5	3.17	0.8	59	24	98	56	5.61	1.30	14	21	2.04	1078	3	0.08	46	0.05	36	73	0.13	183	100
172	GM0114	80	0.2	2.77	9	378	0.3	5	2.78	1.0	54	25	150	93	5.81	0.51	13	19	2.27	1079	1	0.08	49	0.05	4	47	0.20	193	111
173	GM0117	305	0.4	3.71	9	1078	1.2	5	6.35	0.7	68	20	71	73	5.23	1.62	12	15	1.87	1165	8	0.09	37	0.05	17	212	0.12	240	81
174	GM0118	40	0.4	3.18	217	569	0.7	5	7.26	1.1	70	41	457	55	5.21	0.75	13	22	4.91	1271	4	0.06	434	0.07	10	256	0.05	136	80
175	GM0119	175	0.6	0.13	4	48	0.2	5	1.83	0.8	32	3	174	15	0.88	0.05	4	1	0.12	305	14	0.02	14	0.01	38	51	0.01	20	60
177	GM0120	180	1.8	3.06	33	597	1.7	5	4.98	1.4	54	26	173	93	5.51	0.82	11	22	3.64	1095	3	0.08	191	0.04	32	305	0.05	161	134
178	GM0121	90	2.6	2.11	136	245	1.1	5	8.75	1.3	64	46	787	39	4.74	0.28	12	20	6.43	1288	3	0.04	686	0.05	300	456	0.03	131	133
179	GM0122	170	0.2	2.87	13	508	0.3	5	4.54	0.5	59	25	148	113	5.15	0.43	12	28	2.58	891	2	0.06	60	0.06	4	73	0.14	229	81
180	GM0123	15	0.4	2.12	16	138	0.4	5	7.73	0.6	62	25	188	36	5.11	0.37	10	20	2.96	1251	3	0.08	48	0.08	9	186	0.06	166	89
181	GM0124	20	0.4	3.14	19	551	0.7	5	5.62	1.1	55	29	211	58	6.09	0.48	12	29	3.97	1162	1	0.06	62	0.09	5	247	0.07	213	106
182	GM0127	10	0.2	3.42	10	140	0.3	5	4.86	0.4	60	23	58	79	6.37	0.36	14	44	2.03	1345	1	0.08	29	0.07	2	95	0.28	232	93
183	GM0128	35	0.2	2.09	16	818	0.8	5	3.80	0.8	56	19	81	97	4.76	0.81	13	20	1.29	868	3	0.08	24	0.05	5	92	0.13	167	78
184	GM0130	15	0.6	2.59	11	486	0.5	5	4.62	0.7	59	21	64	120	5.40	0.56	12	19	1.14	893	1	0.10	27	0.05	2	88	0.08	189	73
185	GM0131	150	0.2	3.50	33	554	0.6	5	4.81	0.6	58	29	76	104	6.69	1.15	14	26	2.09	1201	1	0.08	39	0.07	2	127	0.20	245	89
186	GM0132	55	0.2	1.89	19	594	0.4	5	5.96	0.5	61	13	59	73	3.54	0.75	11	11	0.77	921	4	0.07	15	0.05	2	160	0.09	106	47
187	GM0133	15	0.4	4.40	6	863	0.5	5	4.52	0.6	62	20	24	78	5.03	1.68	14	29	1.23	979	1	0.10	18	0.07	4	81	0.12	172	69
188	GM0134	35	0.4	1.34	17	396	0.7	5	13.66	0.4	65	12	55	69	3.26	0.57	9	10	0.75	1485	2	0.06	20	0.05	8	393	0.05	143	83
189	GM0135	35	0.2	1.18	12	263	0.4	5	5.07	0.7	55	11	141	61	2.72	0.42	8	8	0.72	723	5	0.06	18	0.04	3	119	0.06	93	36
190	GM0136	30	0.4	4.90	13	1155	1.8	5	4.30	1.0	64	18	19	90	4.84	2.23	14	15	1.18	883	1	0.11	18	0.07	9	108	0.21	161	66
191	GM0137	275	3.2	1.79	37	251	0.8	5	4.49	1.1	53	24	709	26	3.40	0.24	11	18	3.57	814	3	0.03	219	0.03	48	233	0.02	108	121
192	GM0139	105	1.0	3.41	23	774	0.7	5	6.92	1.0	65	18	30	51	5.13	1.60	10	17	1.57	1303	2	0.09	14	0.07	10	179	0.20	171	73
193	GM0140	50	0.2	2.77	4	109	1.2	5	2.69	0.5	47	21	111	24	3.98	1.29	9	21	0.77	663	1	0.10	50	0.04	14	17	0.34	107	71
194	GM0142	15	0.4	2.77	8	418	0.3	5	3.14	1.2	62	22	43	88	5.67	0.50	16	23	1.70	958	1	0.08	20	0.07	4	40	0.28	219	84
195	GM0143	25	1.0	5.26	16	1040	0.7	5	4.96	1.4	66	32	78	72	6.77	1.49	14	26	2.70	1080	1	0.09	67	0.06	12	73	0.12	242	136
196	GM0144	10	0.6	3.32	16	421	0.5	5	4.09	1.2	59	26	88	71	5.77	0.96	14	37	2.56	1176	1	0.08	46	0.05	5	84	0.16	229	87
197	GM0145	5	0.2	3.84	27	900	0.5	5	6.39	1.0	66	27	157	28	5.97	0.85	13	42	3.20	1214	1	0.08	69	0.07	7	83	0.18	230	98
198	GG0610	125	1.4	0.65	3	158	0.3	5	1.43	0.2	38	6	322	66	1.41	0.30	4	3	0.14	310	12	0.05	16	0.01	25	37	0.03	47	20
201	GG0616	225	1.4	4.96	73	1146	0.8	5	1.30	0.2	57	12	13	56	4.28	2.07	18	10	0.55	694	2	0.13	4	0.12	10	42	0.09	82	53
202	GG0623	40	0.2	0.92	2	178	0.2	5	0.07	0.3	13	12	178	53	1.81	0.36	4	4	0.16	289	10	0.03	21	0.02	2	8	0.05	42	34

(E)

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 5RX 14

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

** Organic, A Humus, S Sulphide

Geol: G.G.

Sheet: 1 of 1

Date received: JULY 19

Date completed: JULY 26

LAB CODE: 9507-030

Au - silt & soil, 15.0 g sample digested with aqua-regia and determined by A.A. (D.L. 2 PPB); Rx, 10.0 g/AR/AA (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 10 ml with water. Lesman PS3000 ICP determined elemental contents.

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

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
GM0153	120	1.8	4.67	34	884	0.7	5	1.99	0.2	47	19	39	52	5.92	1.68	11	20	1.03	891	1	0.12	15	0.09	2	28	0.19	188	81
GM0154	55	0.6	0.20	3	53	0.2	5	1.38	0.2	39	3	269	23	0.67	0.08	4	2	0.06	266	1	0.03	7	0.01	7	30	0.01	12	15
GM0155	75	1.2	5.76	16	1780	0.7	5	2.35	0.7	51	10	19	87	3.91	2.50	10	22	0.81	661	1	0.13	3	0.06	10	103	0.13	98	71
GM0157	5	0.2	3.39	22	302	1.0	5	6.98	1.2	80	41	511	44	5.61	0.35	16	33	6.30	1189	1	0.05	310	0.11	9	224	0.04	170	142
GM0170	1005	1.6	3.36	14	1164	1.5	5	5.27	0.7	67	18	90	138	4.56	1.27	10	13	0.53	923	7	0.10	20	0.09	34	73	0.10	169	73

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 55 Rx 64

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

Organic, A Humus, S Sulfide

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

Geol.: G.G.

Sheet: 1 of 2

Date received: JULY 24

LAB CODE: 9507-036

Date completed: AUG. 01

R #34585

T. lo.	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 ppm	Pb ppm	Sr ppm	Tl %	V ppm	Zn ppm
4	GM0147	440	2.0	3.80	10	1145	1.4	5	4.44	2.3	56	25	42	116	5.75	1.56	15	15	1.43	937	4	0.10	39	0.07	213	134	0.11	259	184
5	GM0158	70	0.2	4.27	3	1188	0.8	5	1.94	0.8	58	16	21	87	5.29	1.76	16	9	0.41	1429	2	0.12	24	0.07	7	26	0.17	139	101
5	GM0160	190	0.4	3.43	2	843	0.5	5	1.18	0.2	48	9	18	57	2.86	1.48	15	5	0.21	756	2	0.09	27	0.04	2	20	0.09	83	47
7	GM0162	130	0.2	2.71	11	428	0.3	5	3.94	1.5	49	22	72	88	5.37	0.63	12	16	1.38	1144	2	0.09	38	0.05	13	59	0.11	168	74
3	GM0165	5	0.2	3.04	16	530	0.3	5	6.91	1.0	56	23	18	44	6.34	0.87	13	38	1.94	1414	1	0.08	14	0.09	7	37	0.49	190	98
2	GM0173	5	0.2	5.26	22	240	0.5	5	5.95	1.4	65	22	28	49	5.86	0.34	16	14	1.81	1104	1	0.10	24	0.12	6	246	0.48	182	91
0	GM0175	100	0.2	2.07	10	299	0.5	5	2.14	0.7	49	13	22	84	3.91	0.70	12	9	0.55	863	5	0.10	23	0.05	2	36	0.17	96	56
1	GM0176	205	4.4	1.80	26	214	0.3	5	0.45	0.8	22	43	21	635	9.98	0.26	6	11	0.77	937	17	0.10	27	0.07	17	15	0.10	101	82
2	GM0177	1010	12.0	1.35	278	92	0.5	5	8.63	1.5	44	50	15	1011	14.77	0.21	6	10	0.58	1261	23	0.06	42	0.07	15	205	0.11	89	70
3	GM0178	110	2.8	1.68	2	907	0.6	5	0.24	6.6	14	12	13	97	5.48	0.68	4	5	0.15	646	3	0.07	14	0.04	8	18	0.04	70	430
4	GM0180	10	0.2	3.45	18	493	0.3	5	3.73	1.5	49	19	72	56	5.72	0.86	12	24	2.48	1503	2	0.06	46	0.05	4	28	0.19	191	144
5	GM0181	30	0.2	4.66	20	173	0.5	5	5.11	1.4	61	25	15	71	7.03	0.30	16	24	2.11	1034	1	0.10	15	0.11	2	211	0.16	190	73
5	GM0182	30	0.2	2.06	9	115	0.3	5	1.72	0.7	49	17	20	67	5.46	0.09	12	20	1.45	890	1	0.11	17	0.05	2	27	0.37	134	109
7	GM0183	5	0.2	2.66	8	224	0.3	5	2.31	0.4	51	5	12	19	2.62	0.26	9	8	0.56	1058	1	0.06	13	0.04	2	61	0.18	53	60
3	GM0186	5	0.2	3.43	21	306	0.3	5	3.44	1.5	52	26	119	74	5.79	0.45	13	23	2.74	1481	5	0.06	58	0.06	3	48	0.26	238	167
9	GM0187	5	0.2	3.83	21	430	0.4	5	3.27	1.6	89	29	93	64	6.16	0.52	28	31	3.48	1341	8	0.08	87	0.25	6	128	0.31	229	185
0	GM0188	10	0.2	5.57	67	811	0.7	5	4.04	2.0	53	27	68	94	6.25	1.76	13	27	2.01	1337	24	0.08	71	0.07	4	27	0.13	430	196
1	GM0189	5	0.6	2.46	10	406	0.4	5	1.96	0.6	55	10	15	62	4.08	0.62	11	11	0.52	991	2	0.08	11	0.05	4	18	0.06	89	100
2	GM0190	5	0.4	1.64	4	411	0.2	5	0.88	0.4	42	10	17	49	4.08	0.49	11	12	0.90	859	1	0.10	13	0.04	8	22	0.21	93	87
3	GM0191	15	0.2	2.47	5	680	0.3	5	0.32	0.8	31	14	20	63	5.09	0.78	11	16	1.24	841	5	0.08	15	0.05	2	15	0.29	133	99
4	GM0192	1045	4.4	0.16	2	55	0.2	5	0.07	0.2	8	2	20	191	1.01	0.05	1	1	0.04	144	2	0.01	11	0.01	2	3	0.01	10	24
5	GM0193	10	0.2	6.09	13	1436	0.8	5	2.42	0.8	61	22	8	42	6.32	2.00	14	19	1.48	728	1	0.10	9	0.12	6	40	0.14	188	83
5	GM0194	5	0.2	5.65	19	40	0.4	5	3.74	2.1	54	65	152	29	8.38	0.05	12	33	3.64	1144	1	0.08	133	0.09	9	259	0.64	217	167
7	GM0195	130	0.2	2.76	17	953	2.4	5	4.28	1.2	58	19	47	36	4.62	1.13	14	12	2.04	979	3	0.11	34	0.09	9	209	0.09	173	93
3	GM0196	355	1.0	0.89	12	275	0.6	5	6.75	0.7	47	5	11	151	1.72	0.39	5	5	0.15	953	4	0.08	11	0.03	27	181	0.02	47	27
4	GM0199	105	0.8	2.95	69	467	0.8	5	6.21	1.4	60	18	36	69	4.99	0.86	12	15	0.83	1163	4	0.12	22	0.09	35	112	0.10	114	84
0	GM0200	10	0.2	2.56	15	1104	1.0	5	4.47	1.1	58	18	39	44	4.74	0.50	14	14	1.22	846	2	0.09	21	0.08	9	131	0.27	147	76
1	GM0201	75	2.4	2.23	19	164	1.1	5	3.66	4.2	53	29	402	49	5.10	0.20	11	20	3.29	914	3	0.05	151	0.05	150	231	0.04	163	271
2	GM0202	155	0.2	2.92	9	1077	1.7	5	6.03	1.4	64	21	41	77	5.22	1.16	12	12	0.74	953	9	0.12	24	0.11	15	111	0.15	193	104
3	GM0203	85	0.6	1.49	3	694	1.6	5	1.85	1.0	49	11	24	62	4.19	0.60	8	8	0.38	713	1	0.11	14	0.07	54	33	0.15	71	99
4	GM0204	135	0.4	2.51	13	509	1.2	5	4.64	2.1	64	20	45	53	5.58	0.84	15	13	1.01	972	1	0.12	24	0.10	24	67	0.18	169	120
5	GM0205	215	2.6	2.58	11	733	1.4	5	5.40	4.4	60	27	85	76	5.79	0.95	11	14	2.16	961	1	0.10	60	0.07	323	174	0.08	219	292
5	GM0206	15	0.2	2.92	12	493	0.7	5	8.14	1.5	69	22	39	63	5.68	0.83	13	16	1.32	1368	1	0.15	22	0.09	16	186	0.15	179	87
7	GG0626	145	0.8	5.37	4	1234	1.1	5	2.03	3.0	47	30	114	204	5.48	2.09	9	12	0.91	735	2	0.21	77	0.06	17	106	0.09	143	122
3	GG0627	5900	37.2	4.40	10	931	1.1	36	2.71	1.8	55	36	124	121	6.04	1.44	11	17	1.66	875	2	0.18	86	0.06	360	115	0.06	160	114

7/08 60 99
 11/11/84

T. No.	SAMPLE No.	Zn 9007-006																												
		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Cr %	Cd 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	Pb 2 of 2	
	GG0628	730	4.0	0.60	2	115	0.2	5	0.38	0.2	16	6	40	46	1.53	0.20	2	3	0.10	335	1	0.04	21	0.02	13	13	0.02	25	17	25
	GG0629	910	3.0	4.66	22	797	0.8	5	2.59	2.6	51	46	127	144	6.66	1.39	10	23	1.65	866	3	0.16	112	0.05	21	93	0.12	178	170	25
	GG0630	160	1.2	0.27	2	60	0.2	5	0.23	4.1	12	3	26	28	0.91	0.09	2	1	0.03	247	35	0.03	18	0.01	25	10	0.01	12	236	25
	GG0631	240	1.0	0.52	5	141	0.3	5	2.42	1.9	43	8	48	79	1.50	0.19	5	2	0.04	494	8	0.06	24	0.01	7	70	0.01	27	106	25
	GG0632	285	2.6	3.37	15	541	0.7	5	5.69	2.0	59	28	116	313	5.22	0.93	9	18	1.20	1085	8	0.19	72	0.06	26	160	0.06	125	92	25
	GG0633	195	1.0	1.72	6	349	0.6	5	1.43	0.9	43	10	16	35	2.92	0.66	6	7	0.65	546	13	0.08	20	0.03	6	62	0.04	84	47	25
	GG0634	165	0.4	3.26	11	585	1.1	5	2.88	4.8	52	20	22	97	5.36	1.23	10	12	0.91	984	2	0.14	28	0.05	21	91	0.06	150	199	25
	GG0635	35	0.8	2.67	6	425	0.9	5	1.85	3.5	47	15	17	71	4.26	0.90	8	13	0.82	685	5	0.11	22	0.03	30	43	0.04	123	173	25
	GG0636	100	0.4	3.56	10	627	1.1	5	1.46	1.6	44	17	20	66	4.92	1.28	8	15	1.04	720	9	0.11	26	0.04	24	57	0.06	167	116	25
	GG0637	420	2.0	1.62	5	353	0.7	5	0.44	0.8	28	14	50	249	3.28	0.69	7	4	0.12	562	24	0.12	32	0.04	14	24	0.04	80	49	25
	GG0638	475	2.8	4.44	2	949	1.5	5	0.98	1.0	34	33	141	417	7.30	1.77	10	13	0.66	750	9	0.12	76	0.07	47	67	0.07	194	91	25
	GG0639	330	1.8	4.31	4	919	1.3	5	4.69	1.2	54	34	127	200	6.70	1.89	13	12	0.96	842	10	0.12	73	0.06	35	194	0.14	188	69	25
	GG0660	285	1.4	4.68	8	836	0.7	5	5.40	0.7	61	23	43	106	5.75	1.55	14	18	1.33	1069	1	0.11	32	0.07	7	92	0.07	224	79	25
	GG0661	645	3.4	3.93	7	935	0.9	5	4.75	1.0	64	24	44	97	5.70	1.41	16	15	1.68	1074	1	0.11	33	0.07	5	158	0.06	202	74	25
	GG0662	25	0.2	4.41	10	656	0.9	5	15.61	1.0	49	15	23	57	7.01	1.32	7	12	0.69	1527	2	0.23	24	0.07	4	146	0.05	187	64	25
	GG0664	95	0.6	1.85	42	388	1.0	5	7.82	1.6	64	31	388	68	5.26	0.33	11	16	4.11	1059	1	0.06	88	0.06	38	400	0.04	182	121	25
	GG0665	150	0.4	2.86	13	645	1.1	5	6.08	1.4	64	25	122	78	5.46	1.05	14	8	1.84	1113	1	0.12	45	0.07	9	237	0.05	199	76	25
	GG0669	195	3.0	0.13	3	26	0.2	5	2.13	6.5	37	3	17	10	0.88	0.05	5	2	0.06	343	4	0.03	15	0.01	278	32	0.01	12	286	25
	GG0675	195	0.6	0.87	11	238	0.6	5	5.45	0.6	51	15	37	88	3.28	0.31	10	5	0.68	793	1	0.07	23	0.05	5	150	0.04	104	40	25
	GG0677	220	0.8	1.72	10	497	1.3	5	5.50	0.6	64	17	25	86	4.71	0.61	15	7	0.63	889	1	0.11	18	0.07	9	263	0.07	158	63	25

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 66 Rx

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

** Organic, A Humus, S Sulphide

Geol.: G.G.

Sheet: 1 of 2

Date received: JULY 31

Date completed: AUG. 04

LAB CODE: 9508-005

R #34587/8

Au - silt & soil, 15.0 g sample digested with aqua-regia and determined by A.A. (D.L. 2 PPB); Rx, 10.0 g/AR/AA (DL 5 PPB)

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

GT.	SAMPLE	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sr	Ti	V	Zn
o.	No.	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
3	GM0208	85	0.4	5.41	2	772	0.6	10	3.12	0.4	48	26	129	97	5.85	2.24	8	16	0.86	739	1	0.10	76	0.05	12	42	0.55	155	96
3	GM0210	40	0.4	2.73	12	528	1.1	5	0.53	0.7	28	6	44	41	2.12	1.16	8	11	0.88	413	4	0.07	13	0.03	40	29	0.06	53	98
1	GM0212	15	0.4	3.35	9	524	0.8	6	0.58	0.2	37	7	55	35	2.51	1.62	11	14	0.96	405	3	0.06	18	0.03	5	32	0.10	75	73
1	GM0215	15	0.2	3.41	12	772	0.5	5	2.25	0.5	53	11	42	33	5.21	1.74	11	27	0.88	1366	1	0.08	6	0.08	2	63	0.24	61	95
2	GM0216	215	0.2	5.40	2	851	0.7	5	0.03	0.2	17	5	15	63	5.63	2.08	9	12	0.87	375	59	0.09	4	0.05	3	18	0.08	151	67
1	GM0217	70	0.2	4.10	6	645	0.9	5	1.39	1.2	58	14	63	59	3.61	1.49	17	17	1.45	500	2	0.06	31	0.06	12	26	0.09	102	113
1	GM0220	55	0.2	4.57	5	623	0.6	5	3.78	1.1	49	23	141	84	5.41	1.82	7	16	0.87	677	4	0.09	61	0.05	19	60	0.44	123	117
5	GM0221	150	1.6	3.62	4	677	0.9	5	2.50	0.2	46	19	168	137	4.92	1.64	8	10	0.46	435	2	0.09	51	0.05	3	65	0.36	139	53
5	GM0222	80	1.0	3.41	2	457	1.1	5	1.58	0.7	53	8	83	32	2.57	1.46	11	11	0.74	330	4	0.07	25	0.03	16	42	0.06	84	87
7	GM0225	135	0.4	3.12	67	906	1.8	5	6.93	1.0	58	32	165	83	5.78	1.03	9	14	2.27	1229	1	0.10	129	0.07	8	150	0.13	164	84
3	GM0226	155	1.6	3.09	6	1043	0.6	5	2.59	1.1	54	16	102	76	3.84	1.19	11	12	0.76	916	5	0.08	30	0.06	28	45	0.07	121	98
1	GM0227	65	0.2	2.70	17	741	0.5	5	2.62	0.7	53	24	137	95	5.13	0.71	12	20	1.43	965	4	0.07	41	0.05	15	30	0.15	186	86
2	GM0228	220	1.4	4.04	2	1485	0.7	5	1.91	0.4	46	5	45	62	2.44	1.85	9	10	0.49	618	5	0.10	7	0.07	54	48	0.10	111	51
3	GM0230	55	1.8	2.72	9	535	0.6	5	2.73	0.8	52	25	123	126	5.44	0.62	11	18	1.64	927	8	0.09	59	0.06	35	37	0.06	235	113
1	GM0231	55	0.2	1.91	10	454	0.8	5	2.88	0.3	51	23	41	83	6.23	0.75	11	15	1.31	1210	1	0.09	12	0.05	3	54	0.38	228	90
5	GM0232	90	0.6	1.58	6	286	0.3	5	2.18	0.6	44	14	88	96	4.50	0.51	7	12	0.68	851	6	0.08	10	0.04	9	44	0.17	108	63
5	GM0233	660	1.0	2.61	8	788	0.5	5	2.58	0.4	45	28	178	74	4.87	1.29	6	16	0.86	749	6	0.08	56	0.05	2	39	0.29	118	63
7	GM0235	650	6.2	3.29	88	676	0.9	5	0.05	6.1	27	8	63	129	3.26	1.45	14	5	0.28	242	13	0.06	25	0.04	14	48	0.05	313	266
3	GM0236	15	0.6	2.51	27	284	0.6	5	0.24	0.2	35	8	87	38	2.84	0.71	15	9	0.94	311	3	0.03	29	0.05	15	7	0.12	42	82
5	GM0237	55	0.4	4.10	7	879	0.8	5	0.42	0.7	33	13	19	69	4.65	1.72	11	9	0.49	704	6	0.09	15	0.06	5	24	0.15	100	98
3	GM0238	15	0.2	2.95	21	239	0.6	5	0.44	0.2	42	12	55	38	3.11	0.74	16	11	1.03	416	2	0.04	34	0.05	12	8	0.13	53	95
1	GM0239	25	0.2	4.45	11	499	0.5	5	1.03	0.6	44	13	23	49	4.60	1.40	13	12	0.76	830	8	0.15	19	0.07	2	23	0.20	125	95
2	GM0240	40	0.2	3.72	84	344	0.4	5	0.39	0.8	40	44	52	105	4.69	1.05	14	11	0.88	690	7	0.08	70	0.06	2	15	0.19	330	141
1	GM0241	10	0.2	2.99	13	225	0.6	5	0.32	0.3	42	8	75	35	2.96	0.76	16	12	1.08	394	1	0.04	30	0.07	6	9	0.13	47	91
1	GM0242	20	0.2	4.96	86	555	0.6	5	0.19	0.2	29	43	30	104	4.54	1.52	11	16	1.16	577	1	0.08	53	0.06	2	14	0.19	270	142
5	GM0243	10	0.2	5.10	16	584	0.6	5	0.33	0.2	40	10	25	44	4.33	1.76	15	14	0.80	666	1	0.11	17	0.07	2	17	0.12	90	97
5	GM0244	60	0.2	1.62	16	134	0.2	5	0.12	0.2	12	5	149	23	1.94	0.46	3	7	0.30	376	8	0.06	9	0.04	2	7	0.04	31	58
7	GM0245	145	0.2	3.39	40	893	1.0	5	2.80	0.2	61	13	36	42	3.91	1.41	11	16	0.57	888	2	0.11	5	0.08	11	48	0.10	122	57
3	GM0246	605	1.2	3.28	240	1582	2.2	5	3.25	0.4	60	25	124	121	5.81	1.11	11	13	1.10	1064	4	0.11	50	0.04	5	109	0.06	222	100
9	GM0249	15	0.2	3.62	21	674	1.0	5	5.98	0.7	64	21	63	57	4.67	1.40	9	14	1.01	868	3	0.07	32	0.08	2	81	0.16	175	64
1	GG0695	145	0.2	2.73	14	588	0.5	5	4.71	0.6	54	22	114	83	5.29	1.08	10	15	1.46	1074	8	0.08	30	0.09	4	128	0.12	169	69
1	GG0697	85	1.0	0.05	2	17	0.2	5	0.83	2.1	23	3	269	20	0.75	0.02	3	1	0.09	185	9	0.01	5	0.02	124	17	0.01	7	145
2	GG0702	50	0.2	1.45	8	224	0.4	5	11.14	0.2	46	5	71	23	1.70	0.61	2	10	0.28	1396	4	0.06	7	0.04	5	210	0.04	56	37
3	GG0721	50	0.2	3.24	17	576	1.6	5	7.78	0.6	54	39	510	23	6.90	1.25	8	19	2.79	1738	1	0.07	240	0.06	7	172	0.18	369	160
4	GG0731	90	0.6	4.45	16	1465	0.8	5	7.67	0.2	59	16	29	63	4.36	1.98	6	15	0.90	1034	3	0.10	11	0.06	5	151	0.12	175	57

T.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Cr 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	950e-005 Pg. 2 of 2
	GG0732	370	1.4	1.58	3	459	0.6	5	4.37	0.2	49	10	97	127	3.32	0.71	7	7	0.35	700	6	0.06	12	0.05	22	106	0.06	97	52	
	GG0738	5	0.4	4.89	9	350	0.4	5	4.55	0.2	59	29	83	131	6.52	0.51	13	41	2.84	999	1	0.14	48	0.07	3	69	0.14	260	93	
	GG0740	120	0.4	3.59	2	1089	1.1	5	4.89	0.3	58	19	51	87	4.57	1.62	9	11	1.22	894	4	0.08	22	0.06	11	140	0.08	166	70	
	GG0748	150	1.0	3.00	4	714	1.3	5	5.53	0.5	57	21	61	192	4.83	1.30	10	13	1.31	1008	18	0.08	21	0.07	25	162	0.08	214	88	
	GG0749	995	0.6	2.28	2	562	0.9	5	4.03	0.7	46	11	97	85	3.70	1.06	5	9	0.85	806	9	0.07	10	0.04	17	130	0.05	113	60	
	LE0664	30	0.2	0.15	3	47	0.2	5	5.58	0.2	50	3	202	38	0.64	0.06	3	4	0.08	518	7	0.02	8	0.01	8	166	0.02	17	8	
	LE0665	815	4.6	5.08	67	1284	1.3	5	4.51	1.0	55	32	136	160	6.66	1.93	10	17	1.39	1025	3	0.16	74	0.08	133	134	0.09	210	117	
	LE0672	15	0.6	0.15	2	29	0.2	5	0.28	0.2	10	2	283	14	0.64	0.05	1	1	0.05	121	11	0.02	9	0.01	18	9	0.01	10	14	
	LE0673	520	3.2	0.78	2	83	0.3	5	0.82	0.2	27	9	184	164	1.90	0.25	4	4	0.13	336	12	0.06	16	0.02	55	24	0.03	44	29	
	LE0674	30	0.4	4.06	4	977	0.5	5	3.09	0.4	51	34	116	67	6.56	1.15	8	19	1.54	938	1	0.10	59	0.06	6	41	0.38	245	103	
	LE0675	235	1.8	0.28	2	50	0.2	5	0.63	0.2	22	9	223	32	1.14	0.09	2	1	0.04	315	13	0.05	15	0.02	10	21	0.02	25	23	
	LE0676	220	1.6	1.44	4	248	0.5	5	0.91	0.2	38	11	110	79	2.86	0.43	9	5	0.26	560	7	0.12	19	0.06	19	52	0.05	69	57	
	LE0678	25	0.2	0.09	3	22	0.2	5	1.18	0.2	30	1	195	8	0.40	0.04	2	2	0.03	231	9	0.01	5	0.01	3	36	0.01	8	6	
	LE0681	45	0.4	4.21	6	741	0.6	5	2.44	0.2	50	29	168	144	5.28	1.53	8	16	0.96	695	3	0.12	88	0.06	2	44	0.23	172	72	
	LE0690	95	0.8	0.13	12	31	0.2	5	0.34	0.2	14	3	277	22	0.76	0.04	1	1	0.03	202	19	0.01	9	0.01	19	9	0.01	14	14	
	LE0691	10	0.2	3.65	25	579	0.6	5	5.12	0.6	57	29	138	24	5.21	0.79	9	22	2.04	1036	1	0.09	86	0.05	10	69	0.08	136	110	
	LE0694	15	0.2	0.05	2	11	0.2	5	0.06	0.2	5	2	315	14	0.46	0.02	1	1	0.01	115	11	0.01	4	0.01	3	4	0.01	5	9	
	LE0695	175	2.0	0.53	2	85	0.3	5	0.98	0.2	28	7	255	176	1.57	0.19	3	2	0.09	343	12	0.06	21	0.02	34	37	0.02	40	33	
	LE0702	40	0.2	0.12	2	29	0.2	5	0.04	0.2	6	2	287	15	0.63	0.03	1	1	0.02	186	13	0.01	11	0.01	2	3	0.01	8	9	
	LE0703	55	0.2	0.12	2	19	0.2	5	0.03	0.2	5	1	295	10	0.55	0.03	1	1	0.02	136	11	0.01	7	0.01	2	4	0.01	8	11	
	LE0705	185	0.8	0.07	2	16	0.2	5	2.50	0.2	46	1	249	7	0.39	0.03	5	2	0.02	388	13	0.02	4	0.01	18	95	0.01	8	9	
	LE0706	650	1.4	0.13	5	28	0.2	5	3.33	0.2	49	4	151	44	0.59	0.05	5	2	0.04	570	19	0.03	8	0.01	10	104	0.01	13	8	
	LE0707	40	0.2	0.06	6	17	0.2	5	7.37	0.2	55	2	200	10	0.39	0.03	3	3	0.04	801	9	0.02	5	0.01	6	176	0.01	14	5	
	LE0709	225	1.2	0.94	2	189	0.4	5	1.66	0.2	43	8	126	75	2.20	0.34	5	3	0.07	669	19	0.08	9	0.04	10	20	0.03	57	36	
	LE0711	150	0.4	0.15	3	36	0.2	5	0.43	0.2	15	3	229	15	0.72	0.05	4	1	0.04	242	16	0.01	12	0.01	19	7	0.01	18	28	
2	LE0712	215	0.4	0.06	10	13	0.2	5	7.81	0.2	51	2	144	12	0.39	0.03	3	3	0.04	793	10	0.02	8	0.01	12	200	0.01	17	9	
3	LE0713	75	2.2	0.34	2	36	0.2	5	0.24	0.2	10	6	211	43	1.25	0.05	3	2	0.23	164	16	0.01	38	0.01	21	9	0.01	33	32	
4	LE0714	120	0.4	0.08	2	16	0.2	5	0.05	0.2	5	2	213	6	0.40	0.02	2	1	0.04	66	7	0.01	9	0.01	3	2	0.01	7	7	
5	LE0715	1030	12.4	0.23	5	46	0.2	5	0.77	1.2	23	4	262	19	1.10	0.07	4	2	0.16	242	15	0.02	37	0.01	1135	32	0.01	33	43	
6	LE0716	55	0.6	0.07	2	24	0.2	5	0.20	0.2	11	2	337	6	0.50	0.03	3	1	0.02	137	20	0.01	8	0.01	16	6	0.01	11	11	
7	LE0724	140	0.4	2.07	14	468	0.9	5	5.72	0.4	61	22	104	82	4.89	0.82	11	10	1.38	1091	5	0.08	35	0.08	17	159	0.05	173	90	

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 17 Rx

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

** Organic, A Humus, S Sulphide

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

Geol.: G.G.

Sheet: 1 of 1

Date received: JULY 31

Date completed: AUG. 04

LAB CODE: 9508-006

R #34589

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 %	Ti ppm	V %	Zn ppm
LE0686	225	1.4	2.61	7	597	1.0	5	1.59	1.2	41	26	272	164	4.04	1.05	6	7	0.53	620	8	0.13	66	0.03	31	99	0.05	121	66
LE0688	20	0.2	0.83	2	161	0.3	5	0.43	0.2	17	4	318	23	1.53	0.31	2	3	0.22	250	1	0.06	7	0.01	3	23	0.02	37	31
LE0689	190	1.2	0.72	2	153	0.3	5	0.04	0.2	5	10	384	117	1.73	0.28	1	2	0.05	178	21	0.06	17	0.02	8	13	0.02	35	30
LE0696	965	1.2	0.18	2	49	0.2	5	0.01	0.2	5	4	392	42	0.61	0.07	1	1	0.01	93	1	0.02	7	0.01	2	3	0.01	11	23
LE0697	145	0.4	0.02	2	5	0.2	5	0.07	0.2	6	2	571	10	0.48	0.01	1	1	0.01	68	1	0.01	5	0.01	2	3	0.01	3	7
LE0698	25	0.2	0.04	2	12	0.2	5	0.25	0.2	11	2	376	8	0.42	0.01	1	1	0.01	173	1	0.01	4	0.01	2	9	0.01	4	7
LE0699	185	1.4	0.93	5	248	0.4	5	0.70	0.3	24	9	321	103	1.98	0.30	2	4	0.23	377	3	0.08	15	0.02	6	29	0.02	41	32
LE0700	15	0.2	0.08	2	10	0.2	5	0.33	0.2	13	1	473	7	0.52	0.02	2	1	0.02	96	1	0.02	5	0.01	2	9	0.01	6	12
GM0250	300	0.2	3.91	19	612	0.7	5	2.89	0.8	55	34	164	66	5.88	1.31	8	19	1.04	723	1	0.09	107	0.06	30	24	0.22	164	83
GM0251	25	0.2	5.07	34	336	0.5	5	4.77	1.0	62	43	131	45	6.41	1.07	8	30	1.55	894	1	0.12	136	0.07	5	40	0.18	180	102
GM0252	25	0.2	4.12	14	592	0.4	5	3.84	0.7	48	36	162	51	6.66	1.37	9	26	1.72	690	1	0.14	100	0.07	2	28	0.37	182	108
GM0253	35	0.2	3.29	7	269	0.5	5	4.72	1.1	50	28	219	72	5.08	0.56	8	29	2.74	959	1	0.17	66	0.05	4	76	0.06	139	81
GM0255	20	0.2	3.66	9	426	0.4	5	3.28	0.3	49	19	144	40	4.60	0.91	9	24	1.93	855	1	0.11	58	0.07	3	33	0.06	121	82
GM0256	5	0.2	3.58	14	112	0.4	5	4.17	1.1	51	38	262	53	6.79	0.20	11	40	4.55	1376	1	0.06	126	0.09	2	116	0.16	217	116
GM0258	25	0.2	4.78	58	90	0.5	5	2.78	0.2	53	26	247	43	5.51	0.32	12	39	3.64	983	3	0.23	65	0.07	9	92	0.05	153	116
GM0259	25	0.2	3.14	8	390	1.0	5	6.95	0.8	60	21	183	17	5.88	0.98	10	14	2.14	1381	1	0.09	67	0.06	8	205	0.04	154	113
GM0260	1420	10.2	0.23	2	55	0.2	5	0.06	0.2	5	3	374	59	1.09	0.07	2	1	0.05	142	7	0.03	5	0.01	2	4	0.01	15	16

94.60

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149

Material: 14 Rx

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

** Organic, & Humus, S Sulphide

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

Geol.: G.G.

Sheet: 1 of 1

Date received: AUG. 16

Date completed: AUG. 22

LAB CODE: 9508-017

R #34590/92

T. o.	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 ppm	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
1	GM0296 rx	15	0.4	0.85	23	368	1.6	5	12.03	0.2	96	13	47	55	4.05	0.40	11	6	0.58	940	1	0.07	16	0.07	7	499	0.07	101	64
2	GM0297	5	0.2	3.67	161	53	0.7	5	7.71	1.0	90	48	746	27	5.92	0.09	16	34	8.26	1189	1	0.03	424	0.09	2	324	0.05	160	100
3	GM0301	660	0.2	0.40	2	95	0.2	5	0.13	0.2	5	3	281	264	4.93	0.15	3	2	0.11	118	1	0.02	23	0.01	12	7	0.01	30	13
4	GM0302	220	0.2	5.86	30	1904	1.4	5	4.93	0.5	69	28	73	104	7.10	2.65	13	21	1.77	957	3	0.13	52	0.07	24	146	0.14	300	106
5	GM0303	55	2.4	4.94	2	730	0.9	5	0.28	0.2	15	13	190	215	12.46	2.08	8	8	0.36	612	1	0.11	56	0.08	14	41	0.24	175	75
6	GM0304	550	0.8	0.10	2	15	0.2	5	0.17	0.2	6	1	321	7	0.49	0.04	2	1	0.03	72	1	0.01	5	0.01	2	5	0.01	5	4
7	GM0305	20	0.6	3.75	2	566	0.6	5	0.07	0.2	5	15	212	197	9.42	1.35	8	10	0.83	385	2	0.06	49	0.05	6	17	0.20	125	84
8	GM0306	495	0.2	3.55	6	750	1.3	5	3.60	1.3	68	28	186	69	5.71	1.18	15	16	2.25	922	1	0.06	74	0.10	54	131	0.15	199	210
9	GM0307	15	0.4	2.92	2	529	0.9	5	1.44	0.4	49	6	63	17	2.25	1.35	9	6	0.62	435	1	0.05	16	0.02	4	53	0.06	58	41
10	GM0308	65	2.4	2.95	2	495	0.6	5	1.16	0.3	49	11	49	75	2.70	1.37	12	9	0.55	495	1	0.05	32	0.05	294	24	0.12	73	52
11	GM0309	5	0.4	0.16	2	32	0.2	5	1.08	0.2	35	2	267	8	0.55	0.08	3	3	0.03	204	1	0.02	5	0.02	2	32	0.01	9	7
12	GM0310	55	1.6	2.06	28	397	0.7	5	7.88	3.6	95	21	107	61	4.87	0.68	13	12	1.12	1296	10	0.09	42	0.10	255	191	0.06	160	179
13	GM0311	200	2.8	2.05	14	576	0.7	5	3.05	1.3	74	20	74	124	5.69	0.77	15	16	1.64	880	1	0.08	23	0.08	368	103	0.23	161	112
14	GM0314 rx	4650	13.6	2.86	7	532	0.5	5	4.59	1.2	83	25	111	73	5.22	0.92	14	18	2.01	994	1	0.09	41	0.05	1728	108	0.09	166	81

25/8 14 44
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NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSETTE - 149
Material: 40 Rx

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

** Organic, & humus, Sulfide

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

Geol.: G.G.
Sheet: 1 of 2

Date received: AUG. 29
Date completed: SEP. 01

Lab Code: 9508-025
R #34565/94

SAMPLE No.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sr	Ti	V	Zn
	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm		
GM0376 rx	25	0.8	2.41	18	602	0.3	5	0.15	2.5	28	8	85	62	2.57	1.10	14	11	0.54	205	26	0.07	37	0.02	10	11	0.07	282	189
GM0377	15	0.2	1.89	33	226	0.4	5	0.95	0.4	43	8	102	40	2.47	0.77	14	15	0.76	547	1	0.05	20	0.03	8	20	0.12	50	75
GM0379	40	0.8	4.93	4	522	0.6	5	1.37	0.2	35	18	298	151	5.87	1.75	11	24	1.41	415	1	0.29	112	0.06	9	46	0.53	156	84
GM0381	10950	5.2	0.07	21	7	0.2	5	0.03	0.5	9	8	171	28	1.11	0.02	1	2	0.02	62	1	0.01	14	0.01	306	1	0.01	4	19
GM0382	105	1.0	2.68	15	230	0.4	5	3.52	0.6	55	35	305	86	5.08	0.50	9	26	2.02	907	1	0.09	213	0.05	14	32	0.07	122	65
GM0383	570	1.4	0.16	19	12	0.2	5	0.38	0.2	13	13	305	38	1.47	0.04	2	3	0.11	104	1	0.02	28	0.01	2	4	0.01	10	6
GM0384	25	0.4	4.67	8	248	0.9	5	1.12	1.0	49	11	61	55	3.67	1.38	17	34	1.62	586	1	0.08	35	0.04	29	23	0.08	76	133
GM0388	180	0.4	4.44	6	730	0.7	5	3.29	0.6	55	23	221	74	4.19	1.36	11	25	1.60	594	3	0.33	106	0.05	12	81	0.39	155	57
GM0389	4050	5.6	0.93	6	199	0.2	5	0.64	0.2	23	33	280	56	2.94	0.25	5	11	0.66	296	1	0.03	18	0.01	3	8	0.05	54	32
GM0390	5	0.6	2.71	13	116	0.3	5	2.43	0.5	56	24	87	134	6.53	0.09	14	28	2.60	1036	9	0.20	33	0.06	4	26	0.30	229	91
GM0391	510	34.0	2.34	14	293	0.4	21	3.44	5.6	58	45	295	171	6.54	0.62	11	20	1.66	743	1	0.09	222	0.05	8111	42	0.13	114	56
GM0392	40	0.4	1.82	6	221	0.3	5	2.26	0.4	61	14	106	85	3.72	0.47	9	18	1.20	592	1	0.08	17	0.07	15	33	0.07	125	52
GM0394	4000	12	1.37	15	79	0.3	5	3.21	0.2	66	33	248	59	3.46	0.20	8	12	1.55	533	1	0.10	131	0.03	13	56	0.04	68	29
GM0396	20	0.2	0.02	2	8	0.2	5	0.32	0.2	19	1	177	4	0.47	0.01	3	2	0.01	112	1	0.01	3	0.01	2	8	0.01	3	2
GM0397	70	0.2	0.08	2	28	0.2	5	0.26	0.2	18	9	267	4	2.28	0.02	3	1	0.04	235	1	0.04	4	0.01	2	6	0.02	8	4
GM0400	10	0.2	0.20	5	72	0.2	5	1.80	0.2	42	4	259	6	1.13	0.05	6	2	0.23	254	1	0.03	5	0.01	2	33	0.01	18	7
GM0401	5	0.2	0.07	4	13	0.2	5	0.76	0.3	23	3	305	9	0.50	0.02	3	2	0.07	200	1	0.01	4	0.01	2	20	0.01	8	5
GM0402	6150	17.2	0.10	23	20	0.2	5	0.01	0.2	5	7	293	127	2.26	0.03	1	1	0.01	44	1	0.01	7	0.01	2	1	0.01	14	10
GM0405	20	0.2	1.02	9	59	0.2	5	3.65	0.3	54	4	183	31	2.30	0.04	6	8	0.95	695	1	0.02	20	0.01	2	84	0.01	61	49
GM0410	10	0.2	2.73	17	234	0.3	5	2.62	0.5	57	18	96	133	5.17	0.38	12	12	1.51	653	109	0.14	33	0.06	2	88	0.30	243	84
LE0754	50	3.4	1.69	22	256	0.4	5	6.48	8.4	79	24	222	120	5.62	0.50	12	15	2.54	1318	3	0.05	41	0.30	649	136	0.04	139	596
LE0755	325	0.2	3.01	2	789	0.5	5	0.94	0.3	48	9	56	43	2.94	1.22	11	11	0.70	532	1	0.05	20	0.03	14	14	0.07	68	54
LE0759	85	2.4	3.66	2	1156	0.6	5	1.30	2.1	55	7	51	33	2.25	1.65	12	8	0.43	507	2	0.07	17	0.03	369	19	0.06	70	146
LE0760	35	0.6	3.39	2	459	0.6	5	1.16	2.0	51	7	56	25	2.68	1.16	11	13	1.11	865	1	0.09	13	0.04	69	25	0.07	37	120
LE0765	65	14.8	3.27	3	547	0.5	5	1.12	70.9	56	9	71	66	3.08	1.31	14	9	0.51	803	12	0.07	14	0.05	4374	18	0.05	85	2953
LE0766	15	0.8	3.77	13	806	0.7	5	6.81	0.5	80	31	141	82	6.35	1.19	10	26	3.95	1341	4	0.11	58	0.08	92	153	0.13	200	93
LE0767	35	0.6	3.23	23	705	0.6	5	0.04	4.0	34	11	60	73	2.57	1.57	16	13	0.53	143	8	0.05	26	0.03	21	9	0.12	253	121
LE0770	260	9.6	2.76	18	251	0.5	5	8.08	84.1	84	32	141	107	6.59	0.67	11	18	3.79	1518	9	0.17	43	0.11	3182	182	0.14	234	4496
LE0772	970	14.2	0.20	9	41	0.2	5	0.07	24.4	12	2	172	9	0.61	0.09	3	3	0.04	99	2	0.01	3	0.01	5024	2	0.01	6	1654
LE0774	50	0.4	2.69	45	509	0.5	5	0.13	0.6	31	5	80	49	2.23	1.17	14	6	0.27	124	10	0.05	13	0.03	63	9	0.05	258	85
LE0775	9150	19.8	0.20	3	34	0.2	5	0.06	15.1	11	3	264	20	1.14	0.09	4	2	0.02	248	3	0.01	4	0.01	5789	2	0.01	8	801
GG0802	265	2.6	0.36	11	74	0.4	5	5.95	0.6	67	4	165	45	0.90	0.15	4	4	0.08	721	2	0.04	8	0.02	24	217	0.01	32	17
GG0813	75	0.2	2.46	4	938	2.5	5	2.61	0.4	53	13	141	26	3.56	1.06	7	9	0.84	639	1	0.05	22	0.05	18	154	0.05	181	68
GG0814	70	1.0	2.43	15	1100	2.6	5	3.86	1.0	65	16	58	124	4.18	1.16	10	9	1.44	852	2	0.07	20	0.07	28	397	0.05	188	68
GG0818	530	1.2	0.73	7	584	1.1	5	2.58	0.6	54	7	189	53	2.09	0.33	7	5	0.31	307	1	0.05	8	0.02	31	324	0.03	63	41

SAMPLE No.	Zn 0508-025																												
	Au	Ag	Al	As	Ba	Bc	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sr	Ti	V	Zn	Pa. 2 of 2
	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
GG0819	32500	14.4	0.05	2	16	0.2	5	0.02	32	7	1	295	19	0.92	0.02	1	2	0.01	26	1	0.02	3	0.01	3903	3	0.01	4	241	
GG0820	14250	11.6	0.07	2	28	0.2	5	0.01	9.5	5	2	187	21	0.66	0.03	1	2	0.01	28	1	0.01	3	0.01	3909	3	0.01	5	342	
GG0822	40	0.2	0.10	6	150	0.2	5	1.06	0.2	23	2	291	19	0.76	0.03	2	2	0.37	182	1	0.02	5	0.01	26	13	0.01	12	15	
GG0826	35	0.2	0.82	6	3703	0.3	5	4.98	0.7	74	3	93	10	0.61	0.34	11	3	0.06	458	1	0.05	5	0.02	2	1375	0.02	27	9	
GG0834 rx	55	0.2	1.12	8	766	0.4	5	5.27	0.8	68	11	176	97	2.68	0.33	8	12	0.99	741	1	0.05	19	0.04	4	86	0.12	88	37	

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSTE - 149
Material: 35 Rx

Geol.: G.G.
Sheet 1 of 1

Date received: AUG. 30
Date completed: SEP. 05

LAB CODE: 9509-001
R #34595

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

Organic, Allumus, S Sulide

Au - silt & soil, 15.0 g sample digested with aqua-regia and determined by A.A. (D.I., 2 PPB); Rx, 10.0 g/AR/AA (D.I., 5 PPB)

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

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
0	GM0416 rx	15	0.2	6.95	6	424	0.5	5	5.01	0.6	64	23	46	160	7.94	0.31	12	20	2.32	987	8	0.09	46	0.08	2	169	0.37	304	114
1	GM0418	5	0.2	3.73	5	316	0.3	5	2.76	0.2	49	28	73	96	6.55	0.19	12	15	2.89	894	1	0.11	39	0.07	2	91	0.37	224	64
2	GM0420	5	0.2	6.50	6	626	0.4	5	3.65	0.2	51	31	32	131	8.65	1.16	13	21	3.02	1052	1	0.05	27	0.11	2	179	0.64	395	86
3	GM0421	5	0.2	1.70	10	224	0.2	5	3.15	0.8	44	15	218	34	3.45	0.14	7	11	2.02	636	2	0.04	33	0.05	8	54	0.17	88	37
4	GM0424	5	0.2	3.95	8	297	0.4	5	2.98	0.2	55	5	72	28	4.41	0.29	11	10	1.05	918	1	0.08	4	0.07	2	178	0.25	83	46
5	GM0427	5	0.2	0.40	16	37	0.3	5	8.53	0.6	48	6	268	10	0.82	0.05	1	7	0.45	554	2	0.02	23	0.01	7	164	0.01	37	11
6	GM0429	5	0.2	4.08	15	129	0.4	5	4.59	0.4	61	23	73	92	7.13	0.40	15	11	2.82	1017	1	0.19	47	0.08	2	268	0.38	236	82
7	GM0432	15	0.2	1.83	16	78	0.4	5	7.89	0.7	48	15	203	41	3.13	0.14	1	14	1.93	979	2	0.03	47	0.03	42	138	0.05	102	35
8	GM0437	5	0.2	3.92	14	412	0.5	5	2.83	1.5	63	27	16	254	7.70	0.46	15	17	2.49	988	3	0.25	6	0.11	6	42	0.72	254	74
9	GM0441	5	0.2	0.29	2	19	0.2	5	0.19	0.2	8	5	205	7	2.44	0.02	1	2	0.25	290	15	0.07	5	0.02	4	3	0.04	23	11
10	GM0444	295	4.6	0.27	2	24	0.2	5	0.04	0.2	5	5	307	265	2.77	0.02	2	2	0.24	549	1	0.02	8	0.01	2	1	0.02	28	12
11	GM0445	270	1.2	0.02	2	7	0.2	5	0.04	0.2	5	2	193	3	1.29	0.01	1	1	0.01	97	6	0.01	2	0.01	3	1	0.01	2	2
12	GM0446	1200	3.0	0.69	2	88	0.2	5	0.27	0.2	11	32	178	13	5.25	0.12	6	10	0.22	161	31	0.08	19	0.02	6	12	0.05	28	15
13	GM0448	5	0.2	4.94	16	140	0.4	5	5.13	0.9	67	28	91	124	5.65	0.19	15	12	1.54	795	38	0.15	52	0.07	6	175	0.33	282	90
14	GM0449	265	0.2	4.02	17	674	0.3	5	2.52	1.6	59	37	97	136	7.18	1.09	15	27	3.29	1160	5	0.17	59	0.08	4	93	0.37	258	119
15	GM0451	5	0.2	3.39	12	172	0.4	5	3.68	1.4	59	23	86	78	5.74	0.21	15	13	1.98	966	2	0.19	35	0.07	3	182	0.27	186	76
16	GM0453	10	0.2	3.40	9	363	0.3	5	2.13	1.0	54	23	81	116	6.60	0.59	15	21	2.88	1013	9	0.16	33	0.07	41	42	0.36	318	113
17	LE0779	5	0.2	6.67	14	327	0.5	5	4.68	1.3	61	21	52	83	6.40	0.56	15	17	2.78	987	3	0.05	44	0.11	2	229	0.44	252	82
18	LE0780	5	0.2	3.11	16	60	0.5	5	11.87	1.1	41	29	318	66	4.27	0.19	2	20	3.08	877	3	0.04	100	0.05	5	193	0.04	129	47
19	LE0781	5	0.2	2.11	46	224	0.4	5	6.73	1.6	51	28	331	21	3.53	0.50	7	12	3.91	750	5	0.04	76	0.03	5	103	0.03	103	43
20	LE0782	5	0.2	4.51	28	69	0.5	5	5.06	1.8	52	48	480	53	6.50	0.21	12	26	6.92	933	4	0.03	213	0.06	2	60	0.05	159	142
21	LE0783	5	0.2	1.65	25	35	0.5	5	11.22	1.5	42	33	548	35	3.80	0.03	1	8	5.49	1019	4	0.03	110	0.03	4	174	0.03	131	53
22	LE0788	5	0.2	5.15	190	334	0.3	5	4.68	0.8	73	11	37	98	4.92	0.40	18	9	0.99	1027	2	0.04	10	0.10	120	533	0.34	71	88
23	LE0790	35	2.2	4.13	12	910	0.7	5	5.95	8.5	52	22	116	102	5.04	1.49	6	11	1.57	961	3	0.10	39	0.05	201	91	0.12	201	304
24	LE0800	5	0.2	0.57	2	90	0.2	5	0.63	0.4	17	4	162	11	1.09	0.15	4	4	0.46	255	1	0.01	13	0.01	4	16	0.04	45	18
25	LE0804	5	0.2	3.10	33	200	0.5	5	6.32	2.0	50	42	351	74	5.33	0.52	5	14	5.36	1096	2	0.05	114	0.05	4	118	0.06	180	59
26	LE0806	20	0.4	3.06	20	788	0.5	5	5.28	1.2	55	25	95	175	5.59	0.80	10	18	1.73	1140	2	0.08	39	0.06	4	64	0.05	207	67
27	LE0807	5	0.2	3.59	24	1553	0.6	5	5.46	1.2	64	25	101	119	5.55	0.99	14	72	1.62	1058	2	0.11	42	0.07	3	103	0.07	205	74
28	LE0810	160	0.6	0.24	3	137	0.2	5	0.87	0.2	25	3	188	15	1.04	0.07	5	4	0.09	267	5	0.02	5	0.01	6	11	0.01	20	15
29	LE0811	65	0.2	0.09	2	22	0.2	5	0.03	0.2	5	3	268	3	1.09	0.01	3	1	0.02	86	4	0.02	3	0.01	4	1	0.01	7	3
30	LE0813	345	17.4	0.21	2	134	0.2	5	1.00	1.2	24	10	251	6647	4.85	0.07	4	2	0.10	332	2	0.02	10	0.02	2	26	0.02	23	16
31	LE0816	330	3.6	0.31	2	79	0.2	5	0.03	0.2	5	6	179	32	2.80	0.02	3	2	0.22	141	32	0.02	5	0.02	11	2	0.05	32	15
32	LE0819	10	0.4	7.08	8	432	0.4	5	3.88	1.2	55	13	32	98	6.33	0.65	13	23	1.74	1064	4	0.60	5	0.12	2	144	0.63	121	50
33	LE0851	40	0.4	0.90	42	412	2.8	5	15.27	0.6	47	13	195	34	2.50	0.37	1	7	0.81	1862	6	0.05	55	0.05	30	614	0.03	142	72
34	LE0861 rx	30	0.2	3.31	57	709	0.7	5	0.22	0.2	31	11	59	49	3.10	1.39	14	12	0.21	1331	1	0.06	16	0.04	14	19	0.06	80	80

7/109 6w 94

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149
Material: 51 Rx

Geol.: G.G.
Sheet: 1 of 2

Date received: SEP. 05
Date completed: SEP. 13

LAB CODE: 9509-007
R #34593

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

** Organic, & Humus, S Sulfide

Au - silt & soil, 15.0 g sample digested with aqua-regia and determined by A.A. (D.L. 2 PPB), Rx, 10.0 g/AR/AA (DL 5 PPB)

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

L.	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
1	GM0316	25	0.4	3.67	6	758	0.4	5	1.12	0.5	30	11	47	55	3.64	1.25	16	25	0.57	1232	1	0.07	22	0.05	3	20	0.16	84	94
2	GM0317	10	1.4	3.43	12	594	0.5	5	1.28	0.7	30	18	49	102	5.82	0.89	14	32	1.42	1127	1	0.09	13	0.07	2	12	0.22	180	101
3	GM0321	10	0.2	4.57	10	826	0.7	5	3.12	0.9	42	9	38	35	4.30	1.76	14	28	0.79	1111	1	0.07	8	0.07	2	30	0.09	71	111
4	GM0322	50	0.2	3.76	10	724	0.4	5	1.90	0.8	33	11	63	44	5.16	1.38	12	38	1.64	1104	1	0.18	9	0.05	2	38	0.29	123	92
5	GM0325	5	0.2	2.33	40	587	0.2	5	1.20	0.5	34	8	65	25	3.49	1.03	15	28	0.94	945	1	0.08	6	0.04	6	7	0.21	58	85
6	GM0327	10	0.2	1.97	12	78	0.2	5	0.87	0.2	36	8	54	66	3.23	0.25	10	17	1.15	508	2	0.03	14	0.04	7	101	0.24	175	55
7	GM0329	10	1.2	3.79	34	770	0.6	5	1.09	2.7	30	15	59	53	4.12	1.41	6	21	1.09	664	27	0.11	33	0.07	15	26	0.15	185	213
8	GM0330	80	1.0	4.02	3	1567	1.1	5	0.67	2.6	29	8	56	52	2.49	1.79	6	13	0.61	492	2	0.06	21	0.04	57	14	0.08	90	107
9	GM0331	5	1.0	3.33	42	389	0.5	5	6.45	1.1	44	34	204	92	7.05	0.66	4	30	4.16	1448	1	0.08	91	0.09	2	125	0.24	257	102
10	GM0333	105	0.4	2.48	8	331	0.4	5	3.94	0.8	40	19	94	67	5.70	0.52	6	19	2.34	1133	3	0.09	34	0.04	5	62	0.23	138	82
11	GM0335	5	0.2	4.87	2	1438	0.6	5	2.88	0.8	41	19	17	74	5.69	2.07	10	33	1.75	932	1	0.14	8	0.05	7	45	0.25	157	74
12	GM0336	250	2.0	4.56	2	1235	0.4	5	1.18	0.2	37	16	33	76	5.76	1.64	9	30	1.80	914	3	0.14	5	0.07	17	24	0.28	115	100
13	GM0339	5	0.6	3.26	28	795	0.9	5	6.70	0.9	52	35	266	154	6.13	0.87	6	24	3.15	1417	2	0.11	169	0.08	2	135	0.17	171	93
14	GM0340	105	1.0	2.80	9	482	0.4	5	5.08	0.9	50	25	69	185	7.05	0.79	8	21	2.12	1395	1	0.13	8	0.08	41	68	0.33	157	85
15	GM0341	20	1.0	2.89	6	603	0.3	5	1.68	0.3	41	24	34	191	8.23	0.91	11	28	1.76	1204	3	0.14	3	0.06	2	32	0.60	216	103
16	GM0342	5	0.2	2.62	4	237	0.4	5	4.27	0.5	52	25	179	86	5.18	0.35	11	27	2.32	980	1	0.09	46	0.05	2	51	0.07	171	80
17	GM0343	40	0.8	4.67	3	1377	0.7	5	5.95	2.5	59	25	96	119	5.48	1.76	12	38	2.31	941	22	0.29	57	0.06	17	126	0.26	439	152
18	GM0344	5	0.2	2.59	29	573	0.5	5	17.42	0.4	5	17	70	81	3.87	1.07	1	23	1.07	596	49	0.17	28	0.04	2	149	0.11	181	52
19	GM0345	125	1.2	4.19	9	1307	0.6	5	6.32	0.9	54	28	115	159	6.13	1.24	11	39	2.52	1572	26	0.28	53	0.05	24	177	0.25	204	95
20	GM0347	20	0.2	2.18	5	427	0.5	5	6.43	0.8	60	12	68	76	3.58	0.69	7	22	0.95	1378	2	0.07	19	0.06	3	112	0.13	110	64
21	GM0349	620	1.0	3.58	16	775	0.5	5	4.88	0.8	53	22	96	88	5.32	0.91	11	30	2.18	1055	11	0.08	42	0.05	11	78	0.13	207	80
22	GM0350	30	1.6	3.75	11	850	0.5	5	3.52	1.0	47	27	71	121	6.32	0.89	10	34	2.48	979	3	0.09	42	0.06	102	56	0.15	252	154
23	GM0351	35	0.2	2.55	10	716	0.4	5	8.71	0.7	44	11	48	51	3.01	1.05	3	22	0.90	1187	2	0.16	7	0.03	10	243	0.11	75	39
24	GM0353	50	0.2	4.73	9	748	0.6	5	3.01	0.7	47	18	24	62	6.01	1.48	12	31	1.69	1359	1	0.09	8	0.07	2	32	0.11	182	95
25	GM0355	20	0.4	1.05	14	301	0.3	5	6.04	0.3	45	8	87	40	2.18	0.32	5	10	0.38	1082	1	0.06	6	0.03	5	137	0.09	65	35
26	GM0356	30	0.6	2.70	22	867	0.6	5	0.76	0.9	28	5	35	36	1.99	1.18	9	7	0.41	601	1	0.03	13	0.03	95	18	0.06	58	54
27	GM0358	80	1.2	4.72	2	1342	0.8	5	0.55	1.0	30	12	33	51	3.92	2.09	15	12	0.61	411	19	0.06	18	0.04	12	13	0.07	73	67
28	GM0359	120	0.2	2.93	3	1067	0.4	5	1.00	0.8	35	10	50	41	3.16	1.50	11	12	1.01	756	1	0.07	6	0.08	3	10	0.11	61	55
29	GM0361	70	1.2	2.83	2	708	0.4	5	0.76	2.6	33	11	63	59	3.80	1.28	10	14	1.05	832	1	0.06	14	0.05	56	11	0.18	84	123
30	GM0363	135	2.4	3.90	3	919	0.8	5	0.28	1.3	25	10	33	71	3.05	1.73	10	13	0.56	423	7	0.05	29	0.04	183	15	0.06	103	79
31	GM0366	80	14.6	1.69	11	379	0.3	5	3.05	38.8	46	29	183	180	4.49	0.36	9	18	2.65	829	3	0.05	43	0.06	4641	76	0.04	119	2112
32	GM0367	20	1.0	1.51	2	459	0.2	5	0.65	3.6	20	10	122	51	3.15	0.67	7	8	0.46	374	1	0.07	7	0.04	163	8	0.06	34	167
33	GM0368	9650	0.2	2.50	80	791	0.6	5	0.83	1.2	33	7	86	40	2.19	1.09	9	7	0.50	751	3	0.07	15	0.04	33	14	0.05	62	63
34	GM0369	205	0.2	3.61	3	912	0.5	5	1.87	0.9	38	18	51	69	5.04	1.47	4	15	1.26	843	2	0.08	15	0.05	23	26	0.17	90	70
35	GM0370	25	0.2	2.02	6	271	0.5	5	0.90	0.5	40	9	92	47	2.29	0.81	7	8	0.41	604	1	0.04	21	0.04	14	15	0.05	49	64

L.	SAMPLE No.	Zn 9500 - 007																											
		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi %	Ca ppm	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 9500 - 007 Pg. 2 of 2
9	GM0371	155	6.6	4.28	10	551	0.7	10	2.82	2.6	55	18	25	111	4.32	1.79	7	23	1.87	966	2	0.20	13	0.07	1947	37	0.11	141	94
0	GM0372	490	0.6	1.86	5	473	0.3	5	1.04	0.8	29	4	129	18	1.50	0.83	4	10	0.57	355	1	0.04	16	0.05	186	11	0.06	62	47
1	GM0373	350	3.6	1.82	4	172	0.3	5	1.16	0.9	27	22	223	54	3.53	0.37	8	13	1.39	501	1	0.02	110	0.03	579	17	0.05	74	59
2	GM0374	5	0.2	0.05	2	11	0.2	5	0.07	0.2	5	2	175	7	0.31	0.01	3	1	0.02	131	1	0.01	7	0.01	13	2	0.01	3	8
3	/LE0667 727	150	0.4	5.35	4	1137	0.6	5	1.39	0.2	39	13	28	56	4.43	2.22	13	18	0.78	1092	1	0.09	11	0.05	2	21	0.10	103	58
4	/LE0668 728	615	1.8	0.87	10	181	0.3	5	8.94	2.5	45	8	84	27	1.98	0.31	2	9	0.38	1619	11	0.05	6	0.02	4	216	0.04	44	238
5	/LE0669 729	695	2.0	3.34	2	1085	0.4	5	3.61	0.8	46	20	97	48	4.94	1.60	9	25	2.52	1257	2	0.15	57	0.09	5	59	0.23	161	93
6	/LE0671 731	130	0.4	2.08	2	589	0.4	5	1.64	0.2	40	7	84	39	2.62	0.92	7	6	0.37	695	1	0.10	6	0.09	2	24	0.06	70	31
7	/LE0674 734	115	1.0	2.09	2	440	0.4	5	1.39	1.9	32	4	84	21	1.57	0.95	8	7	0.51	641	1	0.06	9	0.03	316	17	0.05	37	130
8	/LE0675 735	50	0.2	5.25	2	1155	1.0	5	0.27	1.3	35	8	29	51	2.97	2.28	14	13	0.93	449	8	0.08	23	0.05	10	14	0.09	129	128
9	/LE0676 736	150	0.8	2.68	4	536	0.4	5	4.05	1.2	55	7	67	41	2.75	1.18	14	12	0.69	1518	6	0.07	9	0.05	57	49	0.11	66	86
0	/LE0677 737	340	12.0	0.14	2	34	0.2	5	0.50	14.4	20	3	151	31	0.92	0.06	4	3	0.07	376	1	0.01	6	0.02	1647	6	0.01	8	433
1	/LE0678 738	20	1.0	5.41	2	1516	1.1	5	1.81	1.5	64	11	31	60	3.40	2.44	19	11	0.75	870	4	0.08	36	0.05	12	26	0.11	169	117
2	/LE0679 739	5	0.6	0.04	2	6	0.2	5	0.01	1.1	5	1	193	6	0.50	0.01	1	1	0.01	26	1	0.01	2	0.01	97	1	0.01	3	87
3	/LE0681 741	10	0.2	1.43	2	190	0.3	5	0.90	0.2	37	6	99	28	1.70	0.48	10	7	0.44	474	1	0.03	13	0.06	4	8	0.05	27	39
4	/LE0684 744	5	0.2	3.37	4	491	0.5	5	3.69	0.9	43	17	57	40	4.16	1.21	8	22	1.55	1016	1	0.07	25	0.06	11	46	0.10	122	89

NORANDA DELTA LABORATORY
Geochemical Analysis

Project Name & No.: MARIPOSITE - 149
Material: 29 Rx

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

** Organic, & Humus, S Sulfide

Geol.: OGLE
Sheet: 1 of 1

Date received: SEP. 18
Date completed: SEP. 25

LAB CODE: 9509-028
R #34596

Au - silt & soil, 15.0 g sample digested with aqua-regia and determined by A.A. (D.L. 2 PPB); Rx, 10.0 g/AR/AA (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 10 ml with water. Leeman PS3000 ICP determined elemental contents.

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

T. lo.	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
18	GM0455 rx	5	0.2	3.23	93	279	1.9	5	5.67	0.8	70	45	501	42	5.52	0.52	16	31	4.52	1095	1	0.08	349	0.04	6	262	0.02	133	135
19	GM0457	1490	3.2	4.80	2	965	1.2	5	0.32	0.2	11	42	164	322	8.29	2.23	8	9	0.29	283	1	0.10	73	0.05	10	26	0.20	293	49
21	GM0458	525	4.0	0.52	56	125	0.5	5	3.45	0.2	57	99	179	130	12.95	0.27	8	5	0.06	352	1	0.04	101	0.04	2	109	0.04	53	32
24	GM0459	5	0.2	3.07	10	455	0.8	5	6.20	0.2	65	30	133	23	5.31	1.13	7	11	1.49	1165	1	0.11	71	0.05	2	151	0.13	115	67
25	GM0460	15	0.4	1.20	2	187	0.8	5	1.97	0.7	37	15	175	97	2.84	0.52	3	4	0.40	365	1	0.06	25	0.04	2	68	0.04	66	44
26	GM0461	5	0.2	3.02	12	187	1.0	5	5.54	0.8	66	32	172	39	5.66	0.67	10	15	2.59	1009	1	0.16	103	0.04	11	136	0.06	151	93
27	GM0462	5	0.2	5.28	2	569	1.2	5	9.43	0.2	75	36	156	24	6.39	1.93	12	20	2.08	1378	1	0.09	112	0.05	7	213	0.33	170	103
28	GM0464	380	40.0	2.17	3	331	0.3	25	1.28	4.3	35	16	107	1514	4.65	0.50	7	10	0.76	444	1	0.06	19	0.05	6330	21	0.07	117	98
29	GM0466	5	0.2	2.98	2	293	0.3	5	1.45	0.2	33	14	126	20	3.88	0.83	9	12	1.32	967	1	0.04	14	0.04	10	36	0.19	126	68
30	GM0468	35	0.2	2.25	2	295	1.0	5	3.39	0.9	56	14	191	148	3.46	0.99	8	8	0.81	567	1	0.07	46	0.03	2	85	0.08	125	50
31	GM0469	.25	0.2	0.85	3	126	0.8	5	1.75	0.4	41	15	278	44	2.37	0.29	7	7	0.97	366	2	0.01	46	0.01	2	81	0.08	72	33
32	GM0471	5	0.2	2.28	8	488	0.4	5	1.99	0.2	75	14	77	104	3.27	0.53	14	14	1.25	867	1	0.04	16	0.01	2	130	0.10	123	47
33	GM0473	15	0.2	3.27	68	537	0.4	5	1.43	0.2	45	48	131	166	7.72	0.72	14	13	1.80	508	5	0.05	45	0.07	2	20	0.23	167	45
34	GM0475	5	0.2	3.75	11	328	0.4	5	2.84	0.8	56	22	158	17	3.04	0.68	11	17	2.65	383	1	0.15	57	0.03	2	53	0.03	91	49
35	GM0476	30	0.2	2.97	3	354	0.4	5	2.32	1.1	61	21	105	63	3.63	0.75	13	14	1.60	604	1	0.12	43	0.09	2	63	0.05	140	51
36	GM0477	5	0.4	1.49	10	184	0.3	5	1.86	0.2	57	9	193	46	2.05	0.42	10	7	0.91	387	1	0.07	14	0.05	2	30	0.03	76	17
37	GM0478	5	0.2	4.16	2	389	0.1	5	1.63	0.2	59	15	117	115	3.84	0.96	15	14	1.45	489	1	0.16	22	0.05	2	42	0.04	87	44
38	GM0479	5	0.2	2.31	116	466	0.7	5	15.81	0.4	106	34	627	104	4.39	0.81	15	14	2.50	1552	3	0.07	221	0.04	6	376	0.03	126	62
39	GM0480	30	4.8	2.75	36	68	0.4	15	7.23	0.9	100	41	394	66	4.99	0.18	17	24	6.00	1062	1	0.03	124	0.03	99	83	0.05	164	67
40	GM0481	5	0.2	0.09	51	24	0.2	5	0.71	0.2	34	2	192	7	0.39	0.03	4	3	0.05	153	1	0.01	4	0.01	2	12	0.01	8	10
41	GM0482	5	0.4	0.92	2	196	0.2	5	0.34	0.2	7	10	283	10	1.40	0.01	2	7	1.24	253	1	0.01	24	0.01	2	11	0.01	47	23
42	GM0483	10	0.2	1.38	9	96	1.0	5	2.17	0.2	37	19	348	76	2.76	0.21	5	8	1.63	645	3	0.03	52	0.04	2	62	0.04	102	44
43	GM0484	5	0.2	3.45	2	73	0.4	5	2.64	0.2	56	12	63	102	5.99	0.20	14	7	1.80	821	1	0.12	14	0.07	2	195	0.36	244	78
44	GM0485	5	0.2	0.15	2	17	0.2	5	0.12	0.2	5	2	201	5	0.37	0.01	1	1	0.16	84	1	0.01	5	0.01	2	3	0.01	10	7
45	GM0484	265	2.0	3.24	16	794	2.7	5	11.21	0.2	71	44	1018	102	8.09	1.11	14	20	3.48	1935	1	0.07	338	0.07	44	395	0.04	436	179
46	GG0885	25	0.4	4.70	7	1251	1.2	5	3.40	0.2	57	31	52	132	7.78	1.38	19	43	4.18	1155	1	0.07	25	0.09	3	129	0.28	317	114
47	GG0886	75	0.2	3.28	2	803	1.5	5	4.05	0.2	70	25	28	134	6.57	1.62	18	28	2.43	1033	1	0.07	19	0.07	15	128	0.27	285	101
48	GG0887	475	1.2	0.71	10	223	0.6	5	5.29	0.2	72	12	94	51	2.58	0.29	10	6	0.62	851	1	0.08	19	0.06	2	170	0.02	60	34
49	GG0889 IX	5	0.2	0.03	2	5	0.2	5	0.23	0.2	5	2	185	9	0.50	0.01	1	1	0.01	70	1	0.01	5	0.02	2	15	0.01	4	6

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS	
DC0005	670688	6264605	FLOAT	EPICLASTIC	WHITE	fg	none	none	none	fract	none	mod	none	none	none	none	VEIN	FLOAT		massive quartz and calc vein, ankerite selvages	
DC0008	670765	6264680	FLOAT		ORANGE	fg	none	none	none	pervasive	none	none	weak	none	<1	none	none	EPICLASTS	FLOAT		ankerite altered rock with quartz ff. and 2nd event qtz. veining
DC0007	670828	6264752	OUTCROP		ORANGE	fg	none	none	none	pervasive	none	weak	none	none	none	none	EPICLASTS	GRAB		ankerite altered rk. foliated with qtz. and calcite veining 2 episodes	
DC0008	670897	6264829	OUTCROP		ORANGE	fg	none	none	none	fract	mod	none	none	none	tr	none	none	EPICLASTS	GRAB		silic. bedded sed. Well fractured, silic healed.
DC0009	670956	6264883	FLOAT		ORANGE	fg	none	none	none	fract	none	none	none	none	1	none	none	EPICLASTS	FLOAT		ankerite weathered rk. fg diss. pyrite
DC0010	671003	6264933	FLOAT		ORANGE	fg	none	none	none	fract	none	none	none	none	tr	none	none	VEIN	FLOAT		bull and stringer qtz veins in akeritically altered rk.
DC0011	671070	6265005	FLOAT		ORANGE	fg	none	none	pervasive	fract	none	none	none	none	tr	none	none	EPICLASTS	FLOAT		perv. serc. alt. volc with rem. mafic phenos. ank ff bull qtz veining
DC0012	671117	6265058	OUTCROP		ORANGE	fg	none	none	pervasive	fract	none	none	mod	none	1	none	none	EPICLASTS	GRAB		chloritized (sericitized?) alt rk with qtz veining ankerite weathered surf.
DC0013	671236	6265090	FLOAT		ORANGE	fg	none	none	pervasive	fract	none	none	none	none	2	none	none	EPICLASTS	GRAB		sericitized? alt rock with diss py and at least two epi of qtz vning ank weath s
DC0014	671294	6265135	FLOAT		ORANGE	fg	none	none	pervasive	none	pervasive	none	none	none	2	none	none	EPICLASTS	GRAB		pervasive alt ank replacing mafics, stockwork microfac, fg diss py.
DC0015	671380	6265191	FLOAT		LTGREEN	fg	none	none	pervasive	veined	pervasive	none	none	tr	none	none	EPICLASTS	GRAB		ank alt rk and stockwork qtz stringers and mariposites?	
DC0016	671485	6265244	FLOAT	EPICLASTIC	ORANGE	fg	none	none	none	veined	none	none	none	none	2	none	none	VEIN	GRAB		well frac and healed bull qtz vns and py stringers
DC0017	671551	6265288	OUTCROP	EPICLASTIC	ORANGE	fg	none	none	none	veined	none	none	none	none	2	none	none	VEIN	GRAB		bull qtz vned and smears of py along fracs
DC0018	671594	6265315	OUTCROP		ORANGE	fg	none	none	pervasive	veined	pervasive	none	none	none	none	none	none	EPICLASTS	GRAB		ank altered rk, qtz vns and muscovite
DC0019	671645	6265350	OUTCROP		ORANGE	fg	none	none	pervasive	veined	veined	mod	none	none	none	none	none	EPICLASTS	GRAB		qtz/carb veined, ank and chl altered rk.
DC0020	671731	6265386																GRAB			
DC0021	671828	6265405																GRAB			
DC0022	671882	6265413																GRAB			
DC0023	672023	6265515																GRAB			
DC0024	671898	6266637																GRAB			
DC0025	671816	6266581																GRAB			
DC0026	671735	6266524																GRAB			
DC0027	671689	6266503																GRAB			
DC0028	671558	6266436	FLOAT	SEDS	LTGREY	fg	none	none	mod	none	weak	none	none	1	none	none		GRAB		py perv, carb alt	
DC0029	671493	6266371	FLOAT	SEDS	MDGREY	fg	none	none	weak	mod	none	weak	none	tr	none	none		GRAB			
DC0030	671418	6266297	FLOAT	SEDS	LTGREY	fg	none	none	strong	weak	none	none	none	1	none	none		GRAB			
DC0031	671321	6266265	FLOAT	SEDS	TAN	fg	none	none	strong	mod	weak	none	none	tr	none	none	VEIN	GRAB		qtz vn flooded, carb in vms	
DC0032	671228	6266258	FLOAT	SEDS	LTGREY	fg	none	mod	weak	none	strong	none	none	1	none	none		GRAB		qtz/carb alt, py cubes perv	
DC0033	671155	6266185	FLOAT	SEDS	MDGREY	fg	none	none	strong	mod	none	weak	none	tr	none	none		GRAB			
DC0034	671083	6266101	FLOAT	SEDS	MDGREY	fg	none	none	weak	mod	mod	weak	none	tr	none	none		GRAB			
DC0035	670905	6266046	FLOAT	SEDS	MDGREY	fg	none	none	weak	mod	none	weak	none	tr	none	none		GRAB		possible mariposite	
DC0036	670923	6266003	OUTCROP	SEDS	LTGREY	fg	none	none	mod	weak	weak	none	weak	2	none	none		GRAB		qtz vns x-cutting	
DC0037	670834	6265938	FLOAT	SEDS	MDGREY	fg	none	none	weak	mod	none	mod	none	1	none	none		GRAB			
DC0038	670804	6265841	FLOAT	SEDS	LTGREY	fg	none	none	mod	mod	none	mod	none	<1	none	none		GRAB			
DC0039	670744	6265784	OUTCROP	SEDS	MDGREY	fg	none	none	weak	mod	none	none	none	tr	none	none		GRAB		coarse and fg py	
DC0040	670688	6265678	FLOAT	SEDS	MDGREY	fg	none	none	weak	strong	none	weak	none	tr	none	none		GRAB		poss mariposite	
DC0041	670634	6265596	FLOAT	SEDS	MDGREY	fg	none	weak	none	weak	weak	weak	weak	none	3	none		GRAB			
DC0042	670581	6265514	FLOAT	SEDS	MDBROWN	fg	none	none	strong	strong	strong	none	none	2	none	none	VEIN	GRAB		flooded by carb vms	
DC0043	670518	6265435	FLOAT	SEDS	TAN	fg	none	none	weak	none	mod	weak	none	tr	none	none		GRAB			
DC0044	670435	6265310	FLOAT	SEDS	PINK	fg	none	none	strong	weak	weak	none	none	tr	none	none		GRAB			
GG0350	671372	6264784	OUTCROP	qtzvn	MDGREEN	wellfrac											VEIN	CHIP	DOMINANT NW QZ VNS 5 PER 0.7m STEEP EAST DIPSS		
GG0351	671382	6264954	FLOAT														VEIN	GRAB	WELLFRAC QZ VEINS		
GG0352	671658	6264921	FLOAT														VEIN	GRAB	IN TALUS FIELD		
GG0353	671616	6264983	OUTCROP	SEDS	BUFF	foliated											GRAB		EDGE OF STRONG ANK ZONE TO WEST. STWK VEINS AND QVS IN JTS FRACS		
GG0354	671593	6264980	OUTCROP	qtzvn													VEIN	CHIP	STRONG ANK ALT FOL PARALLEL TO GULLEY WITH QV VNS 3mm-7cm 4/1m 1.0M CHIP		
GG0356	671465	6264941	OUTCROP	qtzvn													VEIN	GRAB	BULL AND LASSY QVS IN SILIC FG VOLC SEDS		
GG0357	671387	6264955															VEIN	GRAB	QZ VN MATERIAL IN VOLC SEDS		
GG0358	671580	6265059															VEIN	CHIP	0.2m CHIP OTHER MINOR VNS AT W, NW, WNW, NNW TRENDS		
GG0359	671583	6265057	OUTCROP	qtzvn													VEIN	CHIP	0.6M CHIP		
GG0360	671582	6265055			</td																

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS
GG0574	670480	6265747	OUTCROP	DIOR	WHITE	mg	none	mod	strong	mod	none	1	none	tr	none	none	CHIP	QZ_cc,ank,ser alt dio. Small vns 190/78 cut rx		
GG0575	670480	6265747	OUTCROP	DIOR	WHITE	mg	none	mod	mod	strong	none	1	none	1	none	none	CHIP	1.0m. Across vein & alt dio.		
GG0579	670483	6265777	OUTCROP	DIOR	MDGREEN	mg	none	mod	strong	weak	mod	none	1	none	4	none	mod	VEIN	GRAB	
GG0580	670487	6265779	OUTCROP	DIOR	GRNGREY	mg	none	mod	mod	mod	strong	mod	none	<1	none	mod	VEIN	CHIP	1.0m. Cc,qz,ser,py vn system altering dio host	
GG0581	670985	6266145	OUTCROP	qtzvn	WHITE	welfrac	none	none	weak	none	veined	none	none	tr	none	none	VEIN	CHIP	0.4m. 260/90	
GG0582	670945	6266162	OUTCROP	qtzvn	WHITE	modfrac	none	none	none	none	veined	none	none	none	none	none	VEIN	CHIP	0.3m. 263/90	
GG0583	670938	6266172	OUTCROP	qtzvn	WHITE	modfrac											VEIN	CHIP	0.3m 260/90	
GG0589	670886	6266135	OUTCROP	ANDESITE	MDGREEN	mg	none	weak	mod	mod	none	weak	weak	1	none	tr	none	TUFF	GRAB	0.1-0.2m wide qz vns @ 320/85
GG0591	670878	6266078	OUTCROP	qtzvn	WHITE	massive	none	none	none	none	none	none	1	none	none	none	VEIN	CHIP	1.0m	
GG0593	670891	6266050	OUTCROP	ANDESITE	MDGREEN	mg	none	mod	strong	strong	none	mod	none	1	none	none	AGGL	CHIP	1.0m	
GG0594	670890	6266050	OUTCROP	QFP	GRNGREY	cg	none	mod	strong	strong	none	mod	none	1	none	none	none	CHIP	1.0m	
GG0595	670890	6266050	OUTCROP	QFP	GRNGREY	cg	none	mod	mod	mod	weak	strong	none	1	none	none	CHIP	1.2m. Minor clear qz vnlts, pyrite xtals on fracs to 0.5cm wide		
GG0596	670890	6266049	OUTCROP	QFP	GRNGREY	cg	none	mod	mod	mod	weak	strong	none	1	none	none	CHIP	1.0m. As above		
GG0597	670890	6266049	OUTCROP	QFP	GRNGREY	cg	none	mod	mod	mod	weak	strong	none	1	none	none	CHIP	1.0m chip. 3 qvs in E. part of sample. 0.5cm-3cms wide over 0.5m @ 320/85		
GG0598	670890	6266049	OUTCROP	QFP	GRNGREY	cg	none	mod	mod	mod	weak	strong	none	1	none	none	CHIP	1.0m As above with 5 qvs/1.0m. 0.5-3.0cms wide @ 320/85		
GG0600	670890	6266048	OUTCROP	QFP	GRNGREY	cg	none	mod	mod	mod	weak	strong	none	1	none	none	CHIP	1.0m. Cut by minor qz, qz/cc vnlts <1cm @ 320/85-90		
GG0601	670890	6266048	OUTCROP	QFP	GRNGREY	cg	none	mod	mod	mod	weak	strong	none	1	none	none	CHIP	1.0m.		
GG0602	670890	6266048	OUTCROP	qtzvn	WHITE	massive	none	none	none	none	none	1	none	tr	none	none	VEIN	CHIP	0.1m. wide qv marks contact between QFP & andes. tf.	
GG0603	670890	6266048	OUTCROP	ANDESITE	GRNGREY	fg	none	mod	weak	mod	none	mod	none	1	2	none	weak	TUFF	CHIP	1.0m. Ank-tff
GG0604	670885	6266042	OUTCROP	qtzvn	WHITE	massive	none	none	weak	strong	none	mod	none	1	none	none	VEIN	CHIP	0.6m chip over 20cm qzvn & ank. alt. tuff	
GG0605	670832	6266039	SUBOTC	qtzvn	WHITE	modfrac	none	none	none	none	none	none	1	none	none	none	VEIN	COMPGRAB	Vein material appears 0.5m wide. Limonitic,cc blebs.	
GG0606	670798	6266034	OUTCROP	qtzvn	WHITE	modfrac	none	none	none	none	none	none	1	none	tr	none	VEIN	CHIP	0.5m	
GG0610	670654	6266034	OUTCROP	ANDESITE	GRNGREY	fg	none	mod	weak	mod	none	mod	weak	1	none	none	VEIN	CHIP	0.6m. Qv(cc) @ 285/70	
GG0616	670602	6265980	OUTCROP	EPICLASTIC	LTCGREY	vfg	none	mod	mod	mod	mod	none	none	1	none	tr	none	none	GRAB	Stwk of qvs to cm cutting 0.3cm gypsum vnl
GG0623	670564	6265935	OUTCROP	ANDESITE	LTCGREEN	cg	none	none	weak	weak	none	none	mod	1	none	mod	VEIN	CHIP	0.2m qv	
GG0628	670583	6265905	OUTCROP	ANDESITE	GRNGREY	mg	none	none	strong	mod	none	mod	none	1	2	none	none	TUFF	CHIP	1.0m. Several qz stringers.
GG0627	670583	6265905	OUTCROP	ANDESITE	GRNGREY	mg	none	none	strong	mod	none	mod	none	1	2	none	none	TUFF	CHIP	1.0m chip
GG0628	670583	6265905	OUTCROP	ANDESITE	GRNGREY	mg	none	none	strong	mod	none	mod	none	1	none	none	VEIN	CHIP	0.6m,minor chlorite & mang stain.	
GG0630	670583	6265905	OUTCROP	qtzvn	WHITE	massive	none	none	none	none	mod	none	none	1	none	none	VEIN	CHIP	1.0m	
GG0631	670583	6265905	OUTCROP	qtzvn	WHITE	massive	none	none	none	none	mod	none	none	1	none	none	VEIN	CHIP	1.4m chip	
GG0632	670583	6265905	OUTCROP	ANDESITE	GRNGREY	mg	none	none	strong	mod	mod	weak	mod	1	none	none	TUFF	CHIP	1.3m. Mior qz/cc vnlts to 15cm wide	
GG0633	670579	6265911	OUTCROP	qtzvn	WHITE	massive	none	none	none	none	mod	none	mod	1	none	none	VEIN	CHIP	0.75m. 310/85	
GG0634	670579	6265911	OUTCROP	ANDESITE	GRNGREY	mg	none	none	strong	strong	mod	mod	mod	1	2	none	none	TUFF	CHIP	1.0m
GG0635	670579	6265911	OUTCROP	ANDESITE	GRNGREY	mg	none	none	strong	strong	mod	mod	mod	1	2	none	none	TUFF	CHIP	1.0m cut by 2 qvs ... 310/80 cuts 285/85
GG0636	670579	6265911	OUTCROP	ANDESITE	GRNGREY	mg	none	mod	mod	mod	mod	mod	mod	1	<1	none	none	TUFF	CHIP	1.4m 5 qvs over 1.4m from 1-10cms wide.
GG0637	670579	6265911	OUTCROP	ANDESITE	GRNGREY	mg	none	mod	mod	mod	mod	mod	mod	1	<1	none	none	TUFF	CHIP	1.0m. qvs ,1 = 40cms.
GG0638	670579	6265911	OUTCROP	ANDESITE	GRNGREY	mg	none	mod	mod	mod	mod	mod	mod	1	none	none	TUFF	CHIP	1.0m.	
GG0639	670579	6265911	OUTCROP	ANDESITE	GRNGREY	mg	none	mod	mod	mod	mod	mod	mod	1	none	none	TUFF	CHIP	1.0m. 4 qvs over 1.0m. from 1 - 5 cms. 285/85 cuts 340/80	
GG0660	671493	6265032	OUTCROP	ANDESITE	ORANGE	welfrac	none	none	strong	strong	none	mod	none	1	<1	none	none	TUFF	CHIP	1.0m across 290-300 trending frac set incorp PM0398
GG0661	671493	6265032	OUTCROP	ANDESITE	ORANGE	welfrac	none	none	strong	strong	none	mod	none	1	<1	none	none	TUFF	CHIP	1.0m. Same frac set but on NE side
GG0662	671510	6265041	OUTCROP	ANDESITE	ORANGE	welfrac	none	none	strong	strong	none	mod	none	1	none	tr	none	TUFF	CHIP	0.2m. Limonitic,ank. frac
GG0664	671522	6265049	OUTCROP	ANDESITE	BUFF	veined	none	none	strong	strong	none	mod	none	1	none	tr	none	TUFF	CHIP	2.0m vert. Strg veining. 0.5-3.0cms. Sample taken across flatter vns
GG0665	671522	6265049	OUTCROP	ANDESITE	BUFF	veined	none	none	strong	strong	none	mod	none	1	none	tr	none	TUFF	CHIP	1.5m. Taken across more vert veins. Flat vns cut others. Marl on fracs & in svls
GG0669	671501	6265058	SUBOTC	ANDESITE	ORANGE	foliated	none	none	strong	strong	none	mod	none	1	<1	none	none	VEIN	GRAB	grab of qz selvages along shear @ kp0166
GG0675	671716	6265125	OUTCROP	EPICLASTIC	GRNGREY	vfg	none	mod	strong	none	mod	none	none	1	none	none	EPICLASTS	COMPGRAB		

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS	
GG0889	671277	6266384	OUTCROP	SEDS	WHITE	modfrac							<1	none	none	VEIN	CHIP	0.3m chip, Galena = trace.			
GM0054	670486	6265784	OUTCROP	ALTDIO	ORANGE	wlfraC	none	none	strong	strong	strong	none	none	2	none	none	VEIN	CHIP	.7m chip, 5-15cm irregular qtz vein		
GM0055	670471	6265788	OUTCROP	ALTDIO	ORANGE	wlfraC	none	none	pervasive	strong	strong	none	none	1	none	none	VEIN	CHIP	.8m chip, 5cm qtz vein; 10*40cm calcite bleb		
GM0056	671043	6266051	OUTCROP	ANDESITE	DKGREY	wlfraC	none	none	pervasive	mod	none	none	none	3	none	none	VEIN	CHIP	.75m chip, py cc diss., rsty wthmg lclly,		
GM0059	671008	6266041	OUTCROP	ANDESITE	MDGREY	wlfraC	none	none	mod	strong	none	none	none	5	none	none	VEIN	CHIP	1m chip, less reclusive vein		
GM0060	670984	6266034	OUTCROP	ANDESITE	DKGREY	sheared	none	none	mod	weak	strong	none	i	none	none	none	VEIN	CHIP	.75m chip, rough weathering, vuggy		
GM0061	670989	6266048	OUTCROP	ANDESITE	MDGREY	wlfraC	none	none	mod	mod	mod	none	none	2	none	none	VEIN	CHIP	1m chip, 2.15cm qtz veins, in aggl		
GM0062	670980	6266033	OUTCROP	ANDESITE	MDGREY	wlfraC	none	none	mod	mod	mod	none	none	2	none	none	VEIN	CHIP	4 veins, 2-5 cm,		
GM0065	670942	6265998	OUTCROP	ANDESITE	MDGREEN	cg	none	none	weak	mod	veined	weak	none	tr	none	none	VEIN	CHIP	1M CHIP ACROSS 15CM WIDE QV.		
GM0067	670917	6265985	OUTCROP	qtzvn	WHITE	wlfraC	none	none	mod		weak	none	i	none	none	VEIN	CHIP	1m chip, qtz, immed adjacent to shear, 30cm			
GM0068	670917	6265985	OUTCROP	ALTDIO	MDGREY	sheared	none	none	mod	none	weak	none	i	4	none	none		CHIP	1m chip, nr qtz vn, and shear, hanging wall		
GM0069	670917	6265985	OUTCROP	ALTDIO	MDGREY	sheared	none	none	mod	none	weak	none	i	2	none	none		CHIP	1m chip, nr qtz vein, shear, footwall		
GM0070	670846	6265948	OUTCROP	qtzvn	WHITE	modfrac	none	none	strong		weak	none	i	none	3	none	none	VEIN	CHIP	1m chip,	
GM0071	670848	6265948	OUTCROP	ANDESITE	ORANGE	fg	none	none	mod	strong	mod	weak	none	i	none	none	VEIN	CHIP	.75m chip, clear qtz veining, wall of qtz vein		
GM0072	670846	6265948	OUTCROP	ANDESITE	ORANGE	fg	none	none	mod	strong	mod	weak	none	i	none	none		CHIP	locally 3% mariposita, milky qtz		
GM0073	670907	6265982	OUTCROP	ALTDIO	MDGREY	mg	none	none	mod	mod	weak	none	i	7	none	none		CHIP	1m chip, cg diss. pyr.		
GM0074	670907	6265982	OUTCROP	qtzvn	WHITE	wlfraC	none	none	none	none	none	none	i	3	none	none	VEIN	CHIP	.75m chip in qtz lens 3m*1m rsty		
GM0075	670907	6265982	OUTCROP	DIOR	MDGREY	sheared	none	none	strong	none	none	none	i	none	none	none		CHIP	1m chip, friable, soft; nr shear; 5% mariposita		
GM0076	670887	6265940	OUTCROP	ANDESITE	DKGREY	fg	none	none	none	none	weak	none	i	5	none	weak	AGGL	GRAB	fdsp rich andesitic, agglomerate		
GM0077	670842	6265985	OUTCROP	ANDESITE	ORANGE	fg	none	none	mod	mod	weak	none	i	5	none	none	VEIN	CHIP	.75m chip, calcite veined, .5m qtz vein footwall		
GM0078	670842	6265985	OUTCROP	ANDESITE	ORANGE	fg	none	none	mod	mod	weak	none	i	5	none	none	VEIN	CHIP	1m chip, hangingwall qtz vein .5m		
GM0079	670842	6265985	OUTCROP	qtzvn	YELLOW	wlfraC	none	none	mod			none	i	none	none	VEIN	CHIP	.5m chip, .5m vn, rsty wthmg			
GM0080	670840	6265984	OUTCROP	ANDESITE	ORANGE	fg	none	none	weak	mod	weak	none	i	none	none	none	VEIN	CHIP	.5m chip, 25 cm qtzvein, feldspar rich and.,		
GM0081	670726	6265748	OUTCROP	ANDESITE	MDGREY	fg	none	none	weak	weak	none	none	i	1	none	none	VEIN	CHIP	1m chip, 5-10 cm qtz vein, cc veining, cg pyr, lapilli tuff		
GM0083	670655	6265720	OUTCROP	ANDESITE	MDGREY	fg	none	none	mod	strong	none	none	i	none	none	none	VEIN	CHIP	2 veins, 5cm, 25 cm, bndry ank alt.		
GM0084	670638	6265682	OUTCROP	ANDESITE	MDGREY	fg	none	none	weak	strong	mod	weak	none	i	none	none	LAPTF	CHIP	.5m vein, 1m chip		
GM0085	670844	6265688	OUTCROP	ANDESITE	ORANGE	wlfraC	none	none	strong	none	strong	none	i	none	none	none	VEIN	CHIP	.5m chip, in fault, small cc		
GM0086	670632	6265698	OUTCROP	ANDESITE	MDGREY	mg	none	none	weak	mod	mod	strong	none	i	3	none	none	VEIN	CHIP	.75m chip, qtz/cc veining	
GM0087	670638	6265645	OUTCROP	ANDESITE	TAN	mg	none	none	weak	mod	weak	weak	none	i	4	none	none	VEIN	CHIP	1m chip, .3m qtz vn, 10cm cc vn	
GM0088	670636	6265625	OUTCROP	ANDESITE	MDGREY	modfrac	none	none	weak	mod	mod	strong	none	i	5	none	none	VEIN	CHIP	1m chip, qtz/cc vein/bleb	
GM0089	670606	6265607	OUTCROP	ANDESITE	TAN	mg	none	none	weak	strong	weak	none	i	3	none	weak	VEIN	CHIP	1m chip, carb in fracs		
GM0090	670576	6265584	OUTCROP	ANDESITE	TAN	sheared	none	none	mod	weak	strong	none	i	2	none	none	VEIN	CHIP	.75m chip, fault, 5cm qtz vein, cg pyr		
GM0091	670539	6265575	OUTCROP	ANDESITE	TAN	wlfraC	none	none	strong	mod	mod	strong	none	i	2	none	none	VEIN	CHIP	.75 m , smal shear, hanging wall	
GM0092	670549	6265565	OUTCROP	qtzvn	WHITE	wlfraC	none	none	weak	strong	mod	mod	none	i	none	none	VEIN	CHIP	.7m qtzvn/chip		
GM0093	670545	6265555	OUTCROP	ANDESITE	TAN	wlfraC	none	none	strong	mod	mod	mod	none	i	1	none	none	VEIN	CHIP	1m chip, footwall, 6 small veins 5-10 cm	
GM0094	670528	6265528	OUTCROP	ANDESITE	MDGREY	mg	none	none	weak	mod	strong	mod	none	i	2	none	none	VEIN	CHIP	.75m chip, qtz/cc vn	
GM0095	670612	6265073	OUTCROP	EPICLASTIC	TAN	wlfraC	none	none	strong	mod	none	none	i	none	none	none	VEIN	CHIP	.75m comp chip, img qtz vn		
GM0096	670658	6265124	OUTCROP	EPICLASTIC	TAN	wlfraC	none	none	strong	none	none	none	i	none	none	none	VEIN	CHIP	1m chip, .7m qtzvn, 1% mariposita		
GM0097	670758	6264818	OUTCROP	SEDS	DKGREY	fg	none	none	mod	mod	none	none	i	none	none	none	VEIN	CHIP	1m chip, .5m qtz vn; phyllitic shale/mud		
GM0098	670728	6264853	OUTCROP	SEDS	DKGREY	fg	none	none	mod	mod	none	none	i	none	none	none	VEIN	CHIP	1m chip, .2m qtz vn; phyllitic mudstone		
GM0099	670723	6264638	OUTCROP	SEDS	DKGREY	fg	none	none	mod	strong	none	none	i	none	none	none	VEIN	CHIP	1m chip, .3m qtz vn		
GM0100	670812	6264884	OUTCROP	SEDS	DKGREY	massive	none	none	mod	strong	strong	none	i	3	none	none	VEIN	CHIP	20 cm qtz vn with black carb, .75m chip		
GM0101	670857	6264923	OUTCROP	SEDS	DKGREY	fg	none	none	mod	strong	weak	none	i	none	none	none	VEIN	CHIP	.75m chip, qtzvn		
GM0102	670757	6265018	OUTCROP	SEDS	DKGREY	fg	none	none	mod	mod	mod	none	i	2	none	none	VEIN	CHIP	1m chip, .7m qtz vn, cg pyr		
GM0103	670872	6265062	OUTCROP	EPICLASTIC	TAN	mg	none	none	mod	mod	mod	none</									

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS
GM0143	671659	6266517	OUTCROP	ANDESITE	DKGREY	fg	none	none	weak	weak	weak	weak	none	none	none	none	VEIN	CHIP	5cm qtz vn, .5m chip, cc in vn	
GM0144	671635	6266488	OUTCROP	ANDESITE	DKGREY	wlfrc	none	none	none	strong	weak	weak	none	none	none	none	VEIN	CHIP	30cm 'shear', .5m chip, orange wthmg	
GM0145	671569	6266515	OUTCROP	AUGPORPH	DKGREY	mg	none	none	none	mod	weak	weak	none	none	none	none	VEIN	CHIP	vessicular wthrd srfce, qtz vn, ankerite in vn, .5m chip	
GM0147	671187	6266278	OUTCROP	EPICLASTIC	GRNGREY	fg	none	weak	weak	weak	none	none	weak	none	1	none	none	CHIP	vns to 3-8cm, 2m chip, thinly lam,	
GM0153	670892	6266087	OUTCROP	QFP	MDGREY	mg	none	none	strong	mod	none	weak	none	none	1	none	none	DYKE	CHIP	
GM0154	670892	6266087	OUTCROP	QFP	MDGREY	mg	none	none	none	mod	none	weak	none	none	1	none	none	CHIP	.3m chip, .3m vn, cc blebs/salvage,	
GM0155	670892	6266087	OUTCROP	QFP	MDGREY	mg	none	none	none	mod	none	weak	none	none	1	none	none	DYKE	.8m chip, e side vn	
GM0157	670883	6266082	OUTCROP	ANDESITE	BUFF	veined	none	none	strong	mod	none	none	none	<1	none	none	TUFF	GRAB	sporadic mariposite, qtz/cc vning	
GM0158	671030	6266322	OUTCROP	EPICLASTIC	MDGREY	foliated	none	none	mod	strong	none	weak	none	none	none	none	none	CHIP	10m zone shear, 2m chip, small qtz vns	
GM0160	671019	6266318	OUTCROP	EPICLASTIC	BUFF	veined	none	none	strong	mod	none	weak	none	none	none	none	VEIN	CHIP	1m chip, 3 qtz vns, 1-5cm, w side fault	
GM0162	671044	6266326	OUTCROP	EPICLASTIC	BUFF	veined	none	none	weak	mod	none	none	none	tr	none	none	VEIN	CHIP	1m chip, 2-2cm qtz vns, e side fault	
GM0165	671032	6266157	OUTCROP	ANDESITE	DKGREY	fg	none	weak	weak	none	none	weak	none	tr	1	none	LAPTF	GRAB	seric on fracs, rough wthring, black wthmg	
GM0170	670854	6266010	OUTCROP	ANDESITE	BUFF	veined	none	none	strong	weak	none	weak	none	7	none	none	TUFF	CHIP	.6m chip, Vein = 0.3m	
GM0173	670524	6265741	OUTCROP	DIOR	GRNGREY	mg	weak	none	none	none	none	none	1	weak	3	none	none	CHIP	contact, 1m chip, pyr and epidote in fracs	
GM0175	670539	6265696	OUTCROP	ANDESITE	DKGREY	fg	none	none	weak	mod	weak	weak	none	1	none	tr	none	ASHTF	CHIP	
GM0176	670511	6265752	OUTCROP	ALTDIO	TAN	mg	none	none	mod	mod	strong	strong	none	1	none	mod	VEIN	CHIP	rusty shear, cc blebs, 1m chip	
GM0177	670504	6265748	OUTCROP	ALTDIO	ORANGE	sheared	none	none	strong	none	none	strong	none	20	none	strong	VEIN	CHIP	1.2m chip, 20-30cm cc vein, mariposite	
GM0178	670450	6265782	OUTCROP	EPICLASTIC	ORANGE	wlfrc	none	none	weak	strong	none	none	none	none	none	none	CHIP	.6m chip, 2qtz vns, 10cm, 20cm		
GM0180	670363	6265795	OUTCROP	EPICLASTIC	MDGREY	cg	none	none	none	none	none	weak	none	none	none	none	GRAB	breciated by qtz vns, elongate clasts		
GM0181	670371	6265782	OUTCROP	DIOR	GRNGREY	fg	weak	none	weak	none	none	strong	none	none	weak	none	EPICLASTS	CHIP	.9m chip, diorite contact	
GM0182	670512	6265645	OUTCROP	ANDESITE	GRNGREY	fg	none	none	none	none	none	weak	none	none	none	none	TUFF	GRAB	bottom of gully	
GM0183	670292	6265720	OUTCROP	EPICLASTIC	LTGREY	wlfrc	none	weak	none	mod	weak	none	weak	none	none	VEIN	CHIP	1m chip, gm-gr wthmg, 5-15cm qtz vn		
GM0186	670340	6265894	OUTCROP	EPICLASTIC	GRNGREY	bxted	none	none	none	mod	mod	mod	none	1	none	none	EPICLASTS	CHIP	1.5m chip, cc/qtz vnd, d. gm wthmg, thickly lam. epiclastics	
GM0187	670377	6265848	OUTCROP	EPICLASTIC	GRNGREY	bxted	none	none	none	none	weak	mod	weak	4	none	none	DYKE	CHIP	1m chip, cc/qtz in vn, 15cm chloritized dyke	
GM0188	670384	6265850	OUTCROP	EPICLASTIC	GRNGREY	bxted	none	none	weak	mod	mod	mod	none	1	none	none	CHIP	1m chip, ankerite in vns with cc		
GM0189	670430	6265848	OUTCROP	EPICLASTIC	ORANGE	sheared	none	none	strong	weak	none	none	tr	none	none	CHIP	1m chip			
GM0190	670439	6265844	OUTCROP	EPICLASTIC	DKGREEN	modfrac	none	none	weak	mod	mod	none	none	none	mod	tr	none	CHIP	1m chip, footwall of shear	
GM0191	670420	6265848	OUTCROP	EPICLASTIC	DKGREEN	modfrac	none	none	weak	mod	mod	none	none	none	none	none	CHIP	1m chip, hanging wall of shear		
GM0192	670370	6265680	OUTCROP	qtzvn	WHITE	wlfrc	none	none	none	none	weak	none	none	tr	none	none	CHIP	1.2m chip, lower portion of 3m vein		
GM0193	670380	6265652	OUTCROP	DIOR	GRNGREY	mg	none	none	weak	none	none	mod	mod	tr	none	none	CHIP	1.2m chip		
GM0194	670554	6265808	OUTCROP	ANDESITE	GRNGREY	veined	none	none	none	none	none	weak	mod	tr	none	mod	TUFF	CHIP	.5m chip, epidote in veins	
GM0195	670607	6265950	OUTCROP	ANDESITE	BUFF	veined	none	none	weak	mod	none	weak	none	none	none	none	TUFF	CHIP	10cm vn, irreg SD, 1m chip,	
GM0196	670838	6265979	OUTCROP	QFP	MDGREY	veined	none	none	weak	mod	none	none	none	none	none	VEIN	CHIP	1.5 m chip, 6 vns, 3-30 cms		
GM0199	670929	6266075	OUTCROP	ALTDIO	BUFF	sheared	none	none	mod	strong	none	none	none	tr	none	none	VEIN	CHIP	1m chip, 10cm qtz vn, shear	
GM0200	670935	6266082	OUTCROP	ANDESITE	DKGREY	fg	none	none	weak	weak	none	none	none	2	none	none	VEIN	CHIP	.75m chip, 5m oliv. andesite, 5cm qtz vein	
GM0201	670890	6265987	OUTCROP	ANDESITE	BUFF	veined	none	mod	mod	mod	none	none	none	1	none	none	VEIN	CHIP	1m chip, 10cm vn, 6 1cm vns, tr maraposite	
GM0202	670906	6266037	OUTCROP	ALTDIO	BUFF	veined	none	mod	strong	none	none	none	none	3	none	none	VEIN	CHIP	1m chip, 5m shear	
GM0203	670956	6266072	OUTCROP	ANDESITE	MDGREY	sheared	weak	none	weak	strong	none	none	none	2	none	none	VEIN	CHIP	1m chip, 2m shear	
GM0204	670947	6266072	OUTCROP	ANDESITE	MDGREEN	sheared	weak	none	weak	none	none	none	<1	none	none	VEIN	CHIP	1M CHIP		
GM0205	670949	6266096	OUTCROP	ANDESITE	BUFF	sheared	none	none	strong	mod	mod	none	none	2	none	none	VEIN	CHIP	1m chip, 3 qtz vns 1.5cm, cut by GM0207	
GM0206	670957	6266099	OUTCROP	ANDESITE	MDGREY	fg	none	none	weak	mod	weak	none	none	1	none	none	VEIN	CHIP	.7m chip, 10cm qtz/cc vn	
GM0208	670912	6266343	OUTCROP	SEDS	DKGREY	fg	none	mod	none	none	weak	none	none	2	none	none	SHALE	CHIP	.mg dis pyr, 5cm qtz/cc vn, .5m chip	
GM0210	670848	6266284	OUTCROP	EPICLASTIC	LTGREY	fg	none	mod	weak	none	none	none	none	none	none	VEIN	CHIP	.6m chip, 3 qtz vns, 2 1cm, 1 4cm		
GM0212	670844	6266222	OUTCROP	EPICLASTIC	GRNGREY	fg	none	mod	weak	none	none	weak	none	none	none	VEIN	CHIP	.5m chip, several microveins, 1.5cm bleb		
GM0215	670865	6266201	OUTCROP	EPICLASTIC	MDGREY	fg	none	weak	weak	none	none	tr	none	mod	VEIN	CHIP	2.5cm qtzvns, SSDeformation			
GM0216	670800	6266268	OUTCROP	SEDS	WHITE	foliated	none	none	strong	none	none	none	tr	none	none	SHALE	CHIP	.7m chip, rusty wthmg, foliated		

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS
GM0252	671427	6266534	OUTCROP	SEDS	GRNGREY	sheared	none	none	mod	weak	none	none	none	none	none	weak		CHIP	2m chip, 1cm discord. qtz vns, W side shear	
GM0253	671456	6266524	OUTCROP	SEDS	RED-BRO	veined	none	none	mod	mod	none	weak	none	none	1	none	none	VEIN	CHIP	.75m chip, several 1-2cm irreg qtz vns, E wall shear
GM0255	671430	6266517	OUTCROP	SEDS	MDGREY	veined	none	none	mod	mod	none	weak	none	none	none	none	VEIN	CHIP	1.4m chip, rusty orange wthmg, 3-3.8cm qtz/cc vns, str. ankr. nr vns, W wall shear	
GM0256	671370	6266501	OUTCROP	AUGPORPH	DKGREEN	mg	none	none	none	weak	none	none	none	none	none	weak	DYKE	CHIP	.5m chip, 5-10m wide dyke in epicitatics/SEDS	
GM0258	671324	6266484	OUTCROP	DIOR	BUFF	mg	none	none	mod	strong	none	none	mod	none	none	none	DYKE	CHIP	.1m chip, 5m irreg. diorite?? dyke, qtz/cc vn	
GM0259	671244	6266412	OUTCROP	AUGPORPH	DKGREEN	mg	none	none	none	weak	none	none	weak	none	2	none	none	VEIN	CHIP	.5m chip, ankered zone in augporph, qtz vn 3-7cm
GM0260	670585	6266543	OUTCROP	qtzvn	WHITE	modfrac	none	none	none	none	none	none	none	none	none	none	VEIN	CHIP	30-80cm qtz vn in main, centrl gully, rusty wthmg	
GM0288	670988	6265270	OUTCROP	EPICLASTIC	BUFF	mg	none	none	weak	mod	none	none	none	none	tr	none	none	VEIN	CHIP	.5m chip, 3cm qtz vn
GM0297	670984	6265297	OUTCROP	EPICLASTIC	BUFF	mg	none	none	weak	mod	none	none	weak	none	none	none	VEIN	CHIP	.5m chip, several <1cm qtz vns	
GM0301	671204	6266351	OUTCROP	EPICLASTIC	DKGREY	fg	none	none	none	none	none	none	none	none	1	none	none	VEIN	CHIP	15cm chip, 15cm qtz vein, rusty, pyr and chalco(?) in veinlets in qtz
GM0302	671204	6266354	OUTCROP	EPICLASTIC	LTGREY	fg	none	none	mod	strong	none	none	none	none	none	none	VEIN	CHIP	.5m chip, hanging wall of qtz vn	
GM0303	671159	6266405	OUTCROP	AUGPORPH	ORANGE	sheared	none	none	mod	mod	weak	none	none	none	4	none	none	DYKE	CHIP	.3m chip at RC0039, bottom of .7m shear
GM0304	671182	6266407	OUTCROP	qtzvn	WHITE	modfrac	none	none	none	none	none	none	none	none	none	none	VEIN	CHIP	.4m chip at RC0038, rusty	
GM0305	671163	6266411	OUTCROP	AUGPORPH	GRNGREY	sheared	none	none	strong	weak	none	none	none	none	3	none	none	DYKE	CHIP	.4m chip, top of shear
GM0306	671180	6266413	OUTCROP	AUGPORPH	GRNGREY	cg	none	strong	mod	mod	weak	weak	weak	none	tr	none	none	DYKE	CHIP	.5m qtz/cc bleb in aug porph, 1m chip
GM0307	671162	6266414	OUTCROP	EPICLASTIC	GRYBRN	sheared	none	weak	strong	mod	none	none	none	tr	none	none	VEIN	CHIP	.5m chip, sheared qtz vein in shear, 5cm blebs	
GM0308	671167	6266415	OUTCROP	EPICLASTIC	LTGREY	foliated	none	none	strong	weak	none	none	none	none	none	none	VEIN	CHIP	.5m chip, h-wall, of 307	
GM0309	671170	6266381	OUTCROP	qtzvn	WHITE	modfrac	none	none	none	none	none	none	none	none	none	VEIN	CHIP	.5m chip, slightly rusty, .5m vein		
GM0310	671140	6266357	OUTCROP	EPICLASTIC	DKGREY	wellfrac	none	none	mod	strong	none	none	none	tr	none	none	VEIN	CHIP	.5m chip, 2 3cm qtz vns	
GM0311	671122	6266343	OUTCROP	EPICLASTIC	DKGREY	veined	none	none	weak	mod	weak	weak	none	tr	none	none	VEIN	CHIP	.7m chip, 2vms, 6&2 cmrs, rusty, w side gully	
GM0314	671133	6266308	OUTCROP	EPICLASTIC	MDGREY	veined	none	none	mod	mod	weak	none	none	2	none	mod	VEIN	CHIP	.8m chip, 2 2cm veins, 1cm zone galena in vein	
GM0316	671447	6267668	OUTCROP	EPICLASTIC	DKGREY	fg	none	weak	weak	mod	none	none	tr	none	none	VEIN	CHIP	.4m chip, oblique to 2cm qtz vn		
GM0317	671503	6267611	OUTCROP	DIOR	GRNGREY	mg	none	weak	none	mod	mod	none	none	tr	none	none	SHALE	CHIP	2cm vn nr lower crnt shale&diior, .5m chip	
GM0321	671602	6267586	OUTCROP	SEDS	DKGREY	blocky	none	weak	mod	mod	none	none	none	1	none	none	VEIN	CHIP	.5cm qtz/cc vein, 1m chip, strong frac zone ~30m long	
GM0322	671613	6267572	OUTCROP	SEDS	DKGREY	fg	none	none	weak	weak	none	none	none	tr	none	none	VEIN	CHIP	2m chip, incomplete coverage ('shitty chippin') 5-1.3 cm qtz vns, nr zone of shr	
GM0325	671651	6267516	OUTCROP	EPICLASTIC	DKGREY	fg	none	weak	none	none	none	none	none	none	none	none	VEIN	CHIP	.4m chip, 2cm qtz vn, 1-2mm muscovite xtals	
GM0327	671663	6267500	OUTCROP	DIOR	DKGREEN	mg	none	none	none	none	none	mod	none	none	none	none	DYKE	CHIP	.5m chip, footwall of 1m wide dyke, rusty, 1m zone alteration in fwall and hwall	
GM0329	671656	6267439	OUTCROP	SEDS	DKGREY	fg	none	mod	weak	none	none	none	none	2	none	none	DYKE	CHIP	.6m chip, black shale to dyke?, 5m long, pinch and swell, carbonate blebs	
GM0330	671674	6267398	OUTCROP	SEDS	LTGREY	fg	none	none	weak	mod	none	none	tr	none	none	VEIN	CHIP	1m chip, 5 qtz/cc vns, 1.4cm, qtz outside cc core, stockworked, pyr in vns, ankff		
GM0331	671393	6267475	OUTCROP	SEDS	MDGREY	fg	none	mod	mod	mod	none	mod	mod	none	2	none	VEIN	CHIP	1.5m chip, 3-1.3 cm qtz vns	
GM0333	671424	6267452	OUTCROP	SEDS	MDGREY	veined	none	weak	mod	mod	weak	none	mod	tr	1	none	VEIN	CHIP	cm scale patchy ank and chlorite altn, 3 qtz vns=5-2cm, .8m chip	
GM0335	671422	6267438	OUTCROP	SEDS	GRNGREY	veined	none	weak	mod	mod	weak	none	tr	3	none	VEIN	CHIP	ank in veins, 10-15cm qtz veins, .8m chip		
GM0336	671347	6267420	OUTCROP	SEDS	GRNGREY	veined	none	weak	mod	mod	weak	none	tr	none	none	VEIN	CHIP	10-15cm qtz vein, slightly rusty, .7m chip		
GM0338	671399	6267386	OUTCROP	SEDS	MDGREY	veined	none	none	mod	mod	weak	mod	none	tr	tr	none	VEIN	CHIP	elongate patches ank and chlorite parallel to foliation, several 1cm veins, .8mch	
GM0340	671383	6267373	OUTCROP	SEDS	MDGREY	veined	none	weak	mod	mod	weak	none	mod	2	tr	none	VEIN	CHIP	sulfides in qtz/qtz/cc blowout, 1m wide, 1m chip	
GM0341	671231	6267328	OUTCROP	SEDS	LTGREY	modfrac	none	mod	mod	mod	weak	none	none	2	tr	none	VEIN	CHIP	qtz/cc bleb, 25cm, rusty, 1m chip	
GM0342	671333	6267244	OUTCROP	EPICLASTIC	MDGREY	veined	none	weak	mod	mod	mod	none	none	3	1	none	VEIN	CHIP	1.2m chip, .3m qtz vein, locally rusty, sulphides in vn and walls	
GM0343	671327	6267281	OUTCROP	SEDS	LTGREY	veined	none	mod	weak	mod	mod	none	strong	none	2	tr	none	VEIN	CHIP	1m chip, sev <3cm qtz vns
GM0344	671294	6267242	OUTCROP	EPICLASTIC	LTGREY	veined	none	mod	weak	mod	none	strong	none	3	none	VEIN	CHIP	3m cc blowout, contorted bedding, .8m chip		
GM0345	671284	6267248	OUTCROP	EPICLASTIC	DKGREY	veined	none	weak	weak	weak	none	mod	none	tr	none	VEIN	CHIP	.4m chip, 2 qtz veins, 1cm, 3cm		
GM0347	671218	6267257	OUTCROP	EPICLASTIC	DKGREY	wellfrac	none	none	none	weak	none	none	tr	none	none	VEIN	CHIP	.6m chip, 4m wide brittle shear, 4cm qtz vn		
GM0349	671249	6267318	OUTCROP	EPICLASTIC	DKGREY	veined	none	weak	mod	mod	mod	none	none	tr	none	VEIN	CHIP	.3m chip, 2 qtz veins,		
GM0350	671291	6267330	OUTCROP	EPICLASTIC	DKGREY	veined	none	weak	mod	mod	none	none	none	1	none	none	VEIN	CHIP	Mn staining, .3m chip, 2qtz veins, 2cm, discord. irreg	
GM0351	671346	6267375	OUTCROP	SEDS	DKGREY	veined	none	mod	weak	weak	none	mod	none	tr	tr	none	VEIN	CHIP	.4m chip, wacke?, discord/irreg veins	
GM0353	672121	6267436																		

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS
GM0398	669675	6267890	OUTCROP	qtzvn	RED-BRO	modfrac	none	none	none	none	none	none	none	tr	none	none		GRAB	limonitic, rusty, in diorite	
GM0397	669754	6267879	OUTCROP	qtzvn	RED-BRO	wellfrac	none	none	none	none	none	none	none	3	none	none		GRAB	rusty, in diorite, mg, mgreen	
GM0400	669940	6267771	SUBOTC	qtzvn	WHITE	wellfrac	none	none	none	none	none	none	none	tr	none	none	VEIN	COMPGRAB	1m compgrb, bldr tm tmd 090, monz to N, dior to S	
GM0401	670182	6267626	OUTCROP	EPICLASTIC	MDGREEN	laminated	none	none	none	none	none	none	none	tr	none	none	VEIN	CHIP	0.3m. Malachite stained	
GM0402	670336	6267682	OUTCROP	qtzvn	WHITE	wellfrac	none	none	none	none	none	none	none	tr	none	none	VEIN	CHIP	rusty wthmg, 5m chip, F-vein east end	
GM0405	670459	6267588	OUTCROP	qtzvn	WHITE	wkfrac	none	none	none	none	none	none	none	tr	none	none	VEIN	COMPGRAB	rusty, .4m chip	
GM0410	670902	6267389	FLOAT	SEDS	RED-BRO	fg	none	none	none	none	none	none	none	tr	none	none		FLOAT		
GM0418	670103	6268313	OUTCROP	EPICLASTIC	DKGREEN	laminated	none	none	none	none	mod	none	2	none	none		GRAB	small rusty zone, several others nby		
GM0418	669961	6268452	OUTCROP	EPICLASTIC	DKGREEN	laminated	none	none	none	none	mod	none	none	none	none	none	VEIN	CHIP	.2m chip, 3cm qtz vn, thick bedded arenites, tam epis	
GM0420	669569	6268472	OUTCROP	SEDS	DKGREEN	thick	none	none	none	none	mod	none	2	none	none	VEIN	GRAB	rusty wthmg		
GM0421	669487	6268462	OUTCROP	SEDS	DKGREEN	thick	none	none	none	none	strong	none	tr	none	none	VEIN	CHIP	.2m chip, 10cm qtz vn, nr. diorite dyke		
GM0424	669381	6268442	OUTCROP	DIOR	MDGREY	mg	none	none	none	none	none	none	3	none	none	DYKE	CHIP	3 cm qtz vn, rusty wthmg diorite		
GM0427	669134	6268498	OUTCROP	GABBRO	DKGREEN	cg	none	none	none	none	strong	none	none	none	none	VEIN	COMPGRAB	1.4m compgrb, 1.5-0.5m qtz vn, chlorite in vein blows out downhill, smaller vns		
GM0429	668942	6268431	OUTCROP	SEDS	DKGREEN	laminated	none	none	none	none	mod	none	3	none	none		GRAB	see struc, rusty wthmg		
GM0432	668717	6268394	OUTCROP	SEDS	DKGREEN	foliated	none	none	none	none	strong	1	none	none		CHIP	.3m chip, 2 qtz vns, 3 and 1cm			
GM0437	670153	6268317	OUTCROP	EPICLASTIC	DKGREY	laminated	none	none	none	none	weak	1	none	3	none	none	GRAB	rusty bed, laminated, .3m thick bed		
GM0441	669691	6268183	SUBOTC	qtzvn	WHITE	modfrac	none	none	none	none	none	1	none	none	VEIN	GRAB	rusty wthmg, vuggy, extends 20m in suboc, 250deg			
GM0444	669829	6268144	OUTCROP	EPICLASTIC	DKGREY	fg	none	none	none	none	none	2	none	none	VEIN	GRAB	1.5m vein, sampled rusty zone at base,			
GM0445	669834	6268420	SUBOTC	qtzvn	RED-BRO	modfrac	none	none	none	none	none	2	none	none	VEIN	GRAB	rusty qtz vn,			
GM0446	670127	6268095	FLOAT	qtzvn	RED-BRO	modfrac	none	none	none	none	none	5	none	none	VEIN	COMPGRAB	float from lg qtz vn at top of talus - F-vein			
GM0447	670468	6267961	OUTCROP	DIOR	DKGREY	mg	none	none	none	none	none	none	none	none	none	GOSSANOUS	GRAB			
GM0448	670589	6267935	OUTCROP	EPICLASTIC	DKGREY	thin	none	none	mod	none	weak	none	none	2	none	none	GOSSANOUS	GRAB	small gossan in thinlybedded epiclastics	
GM0449	670583	6267807	OUTCROP	EPICLASTIC	DKGREY	thin	none	mod	none	weak	none	none	2	none	none	GOSSANOUS	GRAB	small gossan		
GM0451	670602	6267512	OUTCROP	EPICLASTIC	DKGREY	boxed	none	none	none	none	weak	mod	1	none	none	GRAB	I green wthmg, brecciated by diorite - on contact			
GM0453	670793	6267498	OUTCROP	EPICLASTIC	DKGREY	thin	none	none	weak	none	none	2	none	none	GOSSANOUS	GRAB	small gossan,			
GM0455	670624	6264967	OUTCROP	DIOR	LTGREY	foliated	none	none	weak	weak	mod	none	tr	none	none	VEIN	COMPGRAB	3m compgrb, fol, salt and pepper		
GM0457	670397	6264995	OUTCROP	ANDESITE	GRNGREY	veined	none	none	weak	weak	mod	none	none	2	1	none	AGGL	CHIP	.3m chip, 10cm rusty qtz vn, massive and vein py and po	
GM0458	670411	6264968	OUTCROP	qtzvn	RED-BRO	wellfrac	none	none	none	none	none	20	1	none		GRAB	10 cm qtz/cc vn with local sulphides			
GM0459	670413	6264799	OUTCROP	ANDESITE	GRYBRN	blocky	none	none	weak	mod	mod	none	tr	none	none	AGGL	GRAB	several 1cm vns in stockwork, fol. parallel ankerite		
GM0460	670485	6264694	SUBOTC	qtzvn	WHITE	blocky	none	none	weak	mod	weak	none	mod	none	none	AGGL	GRAB	thick (>.4m) qtz vn, also veinlets, locally rusty		
GM0461	670447	6264604	SUBOTC	EPICLASTIC	DKGREY	foliated	none	none	weak	mod	weak	none	tr	none	none	VEIN	GRAB	thin qtz veins in epiclastics		
GM0462	670613	6264467	OUTCROP	EPICLASTIC	DKGREY	blocky	none	none	mod	weak	none	mod	none	none	none	VEIN	GRAB	qtz/cc vns stockworked with ank. vns, perv chl, seric.		
GM0464	670547	6264408	OUTCROP	EPICLASTIC	GRYBRN	wkfrac	none	none	weak	weak	weak	none	tr	none	none	VEIN	CHIP	.3m chip, 10cm qtz vein, tr malachite		
GM0466	670359	6264469	OUTCROP	SEDS	GRNGREY	foliated	none	none	weak	weak	weak	none	tr	none	none	VEIN	COMPGRAB	2m compgrb, 10cm qtz bleb, ank ff		
GM0468	670394	6264604	OUTCROP	qtzvn	WHITE	modfrac	none	none	weak	weak	weak	none	none	none	none	COMPGRAB	.4m compgrb, nr. grn epiclastics, ank ff			
GM0469	670539	6264586	OUTCROP	qtzvn	WHITE	wellfrac	none	none	weak	weak	weak	none	tr	none	none	COMPGRAB	3m compgrb, 15cm qtz vn, locally rusty wthmg			
GM0471	669819	6265543	OUTCROP	EPICLASTIC	GRNGREY	thin	none	none	weak	weak	weak	none	tr	none	none	VEIN	GRAB	3cm qtz vn, ankeritic cc vna, l. grgn wthmg		
GM0473	669724	6265527	OUTCROP	SEDS	GRNGREY	thick	none	none	none	none	weak	none	5	none	none	VEIN	CHIP	.3m chip, 7cm qtz vn in massive st, rusty wthmg, py massive locally		
GM0475	669565	6265534	OUTCROP	DIOR	GRNGREY	mg	none	none	mod	mod	weak	none	none	none	none	VEIN	GRAB	several thin qtz vns; widen higher in cliff		
GM0476	669508	6265574	OUTCROP	DIOR	GRYBRN	mg	none	none	weak	weak	weak	none	3	none	none	VEIN	COMPGRAB	.3m compgrb, 4cm qtz vn, brown wthmg, discontinuous		
GM0477	669580	6265598	OUTCROP	qtzvn	WHITE	wellfrac	none	none	weak	mod	mod	none	3	none	none	COMPGRAB	.2m compgrb, 6cm qtz vn, buff wthmg diorite			
GM0478	669672	6265589	OUTCROP	EPICLASTIC	GRNGREY	veined	none	none	weak	none	weak	none	2	1	none	VEIN	CHIP	.5m chip, 2 qtzns; 2cm and 5cm, locally rusty wthmg, limonitic		
GM0479	669731	6265635	SUBOTC	EPICLASTIC	GRYBRN	veined	none	none	weak	mod	weak	none	tr	none	none	GRAB	qtz and cc vnd, brown orange wthmg			
GM0480	669634	6265789	OUTCROP	DIOR	GRNGREY	mg	none	none	weak	weak	none	weak	1	none	none	VEIN	GRAB	gab of vn and ftwall, nr. cg gabbro, patchy ankerite in ftwall		
GM0481	669626	6265895	OUTCROP	qtzvn	WHITE	modfrac	none	none	weak	none	weak	none	none	none	none	CHIP	.4m vn, .4m chip			
GM0482	669576	6265714	OUTCROP	qtzvn	WHITE	wellfrac	none	none	none	none	weak	none	none	none	none	CHIP	.6m vn, .6m chip, chlorite in vn			
GM0483	669402	6265771	OUTCROP	DIOR	DKGREEN	wellfrac	none	none	weak	weak	weak	none	none	none	none	VEIN	CHIP	.3m chip, 20cm qtzvn,		
GM0484	669301	62658																		

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS
KP0150	670978	6284742	OUTCROP	SEDS	MDGREEN	vtg	none	weak	strong	none	strong	none	none	2	none	none	GRAB		hvy fol,fract carb,ank,fg diss py, and composition	
KP0152	671010	6284778	OUTCROP	qtzvn	WHITE	massive	none	none	mod	none	weak	none	none	none	none	none	VEIN	GRAB	qtz vn hosts carb content, ~20%, loc wk-mod frac ank,vuggy	
KP0154	671122	6284874	OUTCROP	SEDS	BUFF	vtg	none	none	weak	strong	mod	none	none	none	1	none	none	GRAB	loc sil,0.5mm carb,ank vlnlets, py cube,fg diss	
KP0155	671120	6284887	OUTCROP	qtzvn	WHITE	massive	none	none	mod	none	mod	none	none	none	none	none	VEIN	GRAB	qtz vn frac ankerite	
KP0158	671188	6284901	OUTCROP	SEDS	DKGREY	vtg	none	none	weak	none	mod	none	none	none	1	none	none	GRAB	composite grab, py as fg diss, andesite composition	
KP0158	671221	6284917	OUTCROP	qtzvn	WHITE	massive	none	none	weak	none	mod	none	none	none	2	none	none	VEIN	2m composite grab, bull qtz-milky white, frac ank, 5-10 cm, host 2% fg diss py	
KP0159	671234	6284922	OUTCROP	ANDESITE	DKGREEN	cg	none	none	weak	mod	strong	none	none	2	none	none	GRAB	py fg diss,frac ank, alt'd feldspar porphy,hosts .5m and clasts		
KP0160	671283	6284908	OUTCROP	SEDS	MDGREEN	vtg	none	none	strong	mod	mod	mod	none	1	none	none	GRAB	unit banded,loc sil,py as stringers,fg diss		
KP0162	671790	6285181	OUTCROP	qtzvn	WHITE	massive	none	none	weak	none	strong	none	none	tr	none	none	VEIN	GRAB	qtz vn, milky white-translucent, <=10cm in 1m zone,frac ank,carb,py in ank	
KP0164	671689	6285103	OUTCROP	qtzvn	WHITE	massive	none	none	mod	none	mod	none	none	tr	none	none	VEIN	GRAB	frac , ws ank hosting tr py	
KP0165	671689	6285104	OUTCROP	SEDS	LTGREY	mg	none	none	mod	strong	none	mod	none	none	2	none	none	GRAB	frac, ws py ac perv, ws, minr boxwork,py f-med g diss perv/frac, andesite compstn	
KP0166	671319	6284956	SUBOTC	SEDS	WHITE	massive	none	none	mod	none	none	none	none	none	1	none	none	GRAB	sample out of rusty zone,heavy fract ankerite stockwork,vtg diss py,alt and comp?	
KP0167	671284	6284932	OUTCROP	SEDS	LTGREY	mg	none	none	mod	strong	none	weak	none	none	<1	none	none	GRAB	heavy frac/ws ank,tr mariposite, numerous qtz vlnlets, and composition	
KP0168	671790	6285181	OUTCROP	SEDS	MDBROWN	fg	none	none	mod	weak	none	mod	none	none	tr	none	none	GRAB	frac, ws ank, andesitic composition	
KP0172	671887	6285329	OUTCROP	qtzvn	WHITE	massive	none	none	weak	none	strong	none	none	none	none	none	VEIN	GRAB	qtz/carb vn,bull qtz,milky white,2-5cm wide	
KP0174	671927	6285413	OUTCROP	qtzvn	WHITE	vuggy	none	none	none	none	strong	weak	1	none	tr	none	none	VEIN	qtz vn, translucent-milky white, hosted in andesitic sediments	
KP0175	672022	6285509	SUBOTC	SEDS	RED	mg	none	none	mod	mod	mod	none	none	none	none	none	GRAB	sample from rusty zone, mafic weather pref,ws/perv carb,alt'd? andesitic composi		
KP0177	671892	6285490	OUTCROP	SEDS	DKGREEN	mg	none	none	none	none	none	weak	strong	none	none	none	GRAB	unit host. 5m qtz vns pinch/swell, 5-10cm banding, mafic weath pref, and compstn		
KP0178	671787	6285480	OUTCROP	SEDS	MDBROWN	fg	none	none	mod	mod	none	weak	none	none	tr	none	none	GRAB	ank on weath surf, py as fg tr, mafic weath pref, boxwork struct and composition	
KP0179	671744	6285444	TALUS	SEDS	MDGREY	vtg	none	none	mod	strong	none	none	none	none	<1	none	none	GRAB	ws/frac ank,py fg/granular clots,talus debris very rusty, alt'd andesitic compn	
KP0180	671728	6285434	OUTCROP	SEDS	MDGREY	vtg	none	none	strong	mod	none	mod	none	none	2	none	none	GRAB	f-mg py, tr cp?,perv/frac w qtz vn, alt'd and composition	
KP0181	671698	6285412	OUTCROP	qtzvn	WHITE	massive	none	none	weak	none	none	none	none	3	none	none	VEIN	CHIP	20cm chip, hosted in hv ser unit, vns cont,20cm space, trans-milky wh,py diss,	
KP0182	671848	6285384	OUTCROP	SEDS	LTGREY	fg	none	none	mod	mod	none	weak	none	none	1	none	none	GRAB	unit exhibits varying amnts of ser/chl,alt'd and comp	
KP0183	671615	6285435	OUTCROP	SEDS	MDGREY	vtg	none	none	strong	mod	none	weak	none	none	1	none	none	GRAB	cg py,ws/frac fill, frac carb,extrem qtz vns	
KP0184	671551	6285266	OUTCROP	QFP	MDGREY	fg	none	none	strong	weak	none	none	none	none	1	none	none	GRAB	4m comp grab, py fg diss weath cream/wh,no assoc alt/min w intrud unit, dyke str	
KP0185	671551	6285284	OUTCROP	SEDS	MDGREEN	vtg	none	none	weak	mod	none	weak	weak	none	<1	none	none	CHIP	1m chip sample footwall to dyke,ws ank, and composition	
KP0186	671553	6285284	OUTCROP	SEDS	DKGREY	vtg	none	none	mod	mod	none	weak	none	none	2	none	none	CHIP	1m chip sample hanging wall to dyke, fg diss/cg clot py, and compstn	
KP0188	671275	6285110	OUTCROP	SEDS	MDGREEN	fg	none	none	mod	strong	none	weak	weak	none	<1	none	none	GRAB	heavy ws/frac ank, numer. qtz vlnlets, loc sil, and compstn	
KP0189	671111	6285047	OUTCROP	SEDS	MDBROWN	mg	none	none	strong	weak	none	weak	none	none	3	none	none	GRAB	fg diss,cubic py, ws ank, cut by num qtz vlnlets,<=5% chl, and composition	
KP0191	670817	6284809	OUTCROP	SEDS	MDGREEN	none	none	mod	mod	none	mod	mod	mod	tr	none	none	GRAB	perv,ws frac ank, perv ser, fg diss py, q/c ff,alt'd and compstn		
KP0192	670788	6284781	OUTCROP	SEDS	MDGREEN	vtg	none	none	mod	mod	mod	weak	mod	weak	<1	none	none	GRAB	frac sericitc vlnlet ankerite 0.5mm, loc sil, andesite composition.	
KP0193	670710	6284635	OUTCROP	SEDS	MDGREEN	fg	none	none	mod	mod	mod	weak	weak	weak	none	none	GRAB	ws,perv ankerite, loc sil,unit bed,frac, and compstn		
KP0196	671144	6284798	TALUS	SEDS	TAN	vtg	none	none	mod	strong	none	mod	none	tr	none	none	GRAB	perv,frac carb, frac,ws,perv ank,alt'd andesite composition		
KP0198	671311	6284865	OUTCROP	SEDS	DKGREEN	vtg	none	none	mod	mod	none	weak	mod	mod	tr	none	none	GRAB	vtg diss py, patchey ank, discord qtz vlnlets, andesite composition	
KP0199	671382	6284900	OUTCROP	SEDS	DKGREEN	vtg	none	none	mod	mod	none	mod	mod	mod	<1	none	none	GRAB	ws,frac ank,unit banded 1-2cm vlnlets,perfrac carb, and composition	
KP0200	671385	6284948	OUTCROP	ANDESITE	MDGREEN	mg	none	none	mod	weak	none	weak	weak	none	2	none	none	GRAB	flow text exhib'd, augite/hbl porph,ws/vlnlets ank,loc sc mafica alt chl	
KP0202	671489	6284980	OUTCROP	SEDS	DKGREY	vtg	none	none	strong	weak	none	mod	none	tr	none	none	GRAB	frac/perv carb,perv ank,qtz vlning, andesite composition		
KP0203	671485	6284980	OUTCROP	SEDS	BUFF	vtg	none	none	strong	mod	none	weak	none	none	1	none	none	VEIN	GRAB	hvy bull qtz vning,pinch/swell,also cont,ws/frac ank,tr mariposite, and compstn
KP0204	671508	6284982	SUBOTC	SEDS	BUFF	vtg	none	none	strong	mod	none	weak	none	none	tr	none	none	GRAB	frac carb,qtz vns,ws/frac ank, alt'd? and composition, sample taken 20cm depth	
KP0208	671683	6284972	OUTCROP	SEDS	BUFF	vtg	none	none	strong	strong	none	none	none	<1	none	none	GRAB	ws,vlnet ank, qtz vns, vfg diss, 1-2cm cubic,clot py,alt'd? and composition		
KP0211	671808	6285091	SUBOTC	SEDS	MDBROWN	fg	none	none	strong	mod	strong	none	mod	strong	tr	none	none	GRAB	py gen weath/out, qtz vlnlets,perv,frac carb,ws,perv ank, alt and composition	
KP0213	671761	6285084	OUTCROP	SEDS	MDGREEN	fg	none	none	mod	strong	none	weak	strong	none	tr	none	none	GRAB	frac/ws ank,bed, exhib, qtz/carb vns	
KP0214	671710	6285050	TALUS	SEDS	BUFF	vtg	none	none	strong	strong	none	weak	none	none	1	none	none	GRAB	f-md g diss py, occas. qtz/carb vn, alt'd and composition?	
KP0218	671743	6284886	OUTCROP	SEDS	LTGREY	vtg	none	none	strong	mod	none	mod	none	none	<1	none	none	GRAB	ws ank rind, f-mg diss clot py, subtle band, and	

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS
KP0252	671630	6264520	TALUS	SEDS	LTGREY	vfg	none	none	strong	strong	none	weak	none	none	1	none	none	GRAB	perv,frac,ws ank, ws,perv ser, cut by qtz/carb vns, alt'd and comp	
KP0253	671737	6264311	OUTCROP	FELDPOR	LTGREY	mg	none	none	mod	weak	mod	none	none	none	tr	none	none	GRAB	qpf? dyke struct,Sm comp grab,host cm size rust spots ,.5mm qtz vnlts,hvysc alt	
KP0254	671776	6265758	OUTCROP	SEDS	MDGREY	fg	none	none	strong	mod	weak	mod	weak	none	tr	tr	none	GRAB	cut by random qtz vnlts, alt'd andesitic sediments	
KP0255	671770	6265708	OUTCROP	SEDS	MDGREY	vfg	none	none	strong	mod	weak	mod	mod	none	1	1	none	GRAB	cut by qtz/carb vnlts, random orientation, alt'd andesitic seds	
KP0256	671519	6265847	OUTCROP	SEDS	LTGREY	fg	none	none	strong	mod	none	mod	none	none	1	none	none	GRAB	loc sil,extens qtz vning,host clot/diss sulfides, alt and seds	
KP0257	671535	6265909	OUTCROP	SEDS	LTGREY	massive	none	none	strong	strong	mod	weak	none	none	1	1	none	GRAB	tr.marioposite,qtz/carb vnlts,loc sil, alt'd and seds	
KP0258	671600	6268029	OUTCROP	DIOR	MDGREY	vfg	none	none	strong	strong	mod	mod	none	none	tr	none	none	GRAB	alt'd dio?, tr marioposite, qtz vns/vnlts,loc sil	
KP0259	671445	6265894	OUTCROP	SEDS	ORANGE	massive	none	none	strong	mod	none	mod	none	none	1	2	none	GRAB	sulf as clots/diss, loc chl,alt'd volc seds	
KP0260	671448	6265918	OUTCROP	SEDS	BUFF	massive	none	none	strong	strong	none	weak	none	none	1	none	weak	GRAB	volc sed,strgrs magnetite,random qtz vning,	
KP0261	671453	6265941	OUTCROP	SEDS	MAROON	massive	none	none	strong	mod	none	weak	none	none	<1	<1	none	GRAB	volc seds	
KP0262	671840	6268724	OUTCROP	SEDS	LTGREY	massive	none	none	mod	strong	none	weak	none	none	1	none	none	GRAB	fg diss/clots po,loc sil, alt'd volc seds?	
KP0263	671701	6266994	OUTCROP	SEDS	MDGREY	vfg	none	none	strong	mod	none	weak	none	none	<1	none	none	GRAB	qtz/ank vnlts,semi-stockwork, alt'd volc seds?	
KP0264	671602	6266947	OUTCROP	AUGPORPH	MDGREY	fg	none	none	strong	strong	none	mod	none	none	tr	1	none	GRAB	qtz vnlts,remnant augite porphyry?	
KP0274	672204	6268194	OUTCROP	SEDS	BUFF	vfg	none	none	weak	mod	none	mod	weak	none	3	none	none	EPICLASTS	GRAB	
KP0275	672056	6268313	OUTCROP	ANDESITE	DKGREY	vfg	none	none	none	strong	none	strong	none	none	1	none	none	ASHTF	perivfrac carb, fg diss sulfides	
KP0276	671979	6268342	OUTCROP	SEDS	DKGREY	vfg	none	none	weak	strong	none	weak	none	none	1	tr	none	GRAB	cut by 2-3mm qtz vnlts,sulf as cube/diss, alt volc seds (and)	
KP0277	671889	6268398	OUTCROP	SEDS	ORANGE	vfg	none	none	strong	mod	none	mod	none	none	1	none	none	GRAB	sulf diss, rand orient qtz vnlts, 3-5cm spacing, alt xtl tuff (and)	
KP0278	671792	6268435	OUTCROP	SEDS	LTGREY	vfg	none	none	strong	strong	none	none	none	none	1	none	none	GRAB	vfg diss, alt'd volc seds (and comp)	
KP0279	671698	6268511	OUTCROP	SEDS	DKGREY	vfg	none	weak	weak	none	veined	none	none	none	1	tr	none	EPICLASTS	GRAB	
KP0280	671634	6268551	TALUS	SEDS	ORANGE	vfg	none	none	weak	strong	none	none	weak	none	1	none	none	GRAB	chl appar in less alt'd parts, st qtz/carb vning,alt'd volc sed (and comp)	
KP0281	671481	6268672	OUTCROP	SEDS	DKGREY	vfg	none	none	weak	strong	none	mod	none	none	tr	<1	none	GRAB	cut by chl/milk qtz vn/vnlts, sul fg diss, alt volc sed (and)	
KP0282	671446	6268698	OUTCROP	SEDS	LTGREY	vfg	none	none	weak	weak	veined	none	none	none	<1	none	none	EPICLASTS	GRAB	
KP0283	671328	6268778	OUTCROP	SEDS	DKGREY	vfg	none	none	strong	mod	strong	none	none	tr	1	none	GRAB	sulf as cubes, fg diss, qtz/carb vnlts alt volc seds (and)		
LE0185	672101	6265568	OUTCROP	ANDESITE	ORANGE	fg	none	none	none	pervasive	veined	fract	mod	none	none	tr	none	EPICLASTS	GRAB	
LE0188	672108	6265314	OUTCROP	QZMONZ	MDGREY	cg	none	none	none	none	none	none	none	none	1	none	none	LEUCOCRAT	GRAB	
LE0503	670709	6268183	OUTCROP	EPICLASTIC	LTGREY	fg	none	none	mod	strong	mod	weak	none	none	3	none	none	CHIP	.5M CHP,FLOODED VEINLET QZ, INTRUDED BY DI	
LE0504	670723	6268197	OUTCROP	EPICLASTIC	LTGREY	fg	weak		weak	mod	mod	weak	none	none	2	none	none	CHIP	WK BI, WELL FOLIATED,QZ VNLTS SUBPARAL TO FOL, SER ON FOL	
LE0505	670749	6268224	OUTCROP	DIOR	MDGREY	fg	none	none	strong	mod	strong	mod	strong	none	3	none	none	GRAB	MUDGY TXT., MAFICS TO BI, PERV/FF/VEIN CARB,XTLN MN ON FF, LOCAL 5% PY	
LE0510	670869	6268658	OUTCROP	EPICLASTIC	PINK	fg	none	none	strong	mod	strong	mod	strong	none	none	none	VEIN	GRAB		
LE0512	670675	6268043	OUTCROP	ANDESITE	PINK	fg	none	weak	strong	none	strong	none	strong	none	2	none	weak	TUFF	0.3M CHIP,PERV/FF ANK,PERV/FF CARB, MGD PY	
LE0522	670756	6268582	OUTCROP	qtzvn	WHITE	modfrac	none	none	none	none	weak	none	none	none	none	VEIN	CHIP	.2m CHIP, VARIABLE WIDTH, MINOR CARB STRINGERS		
LE0523	670717	6268590	OUTCROP	qtzvn	WHITE	wellfrac	none	weak	weak	weak	none	none	none	none	none	VEIN	CHIP	.35m CHIP, LOCAL BLOBS OF CALC, VARIABLE WIDTH (20-40cm)		
LE0524	670721	6268596	OUTCROP	qtzvn	WHITE	wellfrac	none	none	none	none	none	none	none	none	none	VEIN	CHIP	.15m CHIP,HOSTED BY ANK DI.		
LE0527	670752	6268008	OUTCROP	DIOR	PINK	fg	none	weak	weak	none	none	none	none	none	none	none	GRAB	FF.SER/ANK/CARB, FF CARB		
LE0528	670740	6268581	OUTCROP	DIOR	LTGREY	mg	none	none	mod	weak	none	none	none	none	3	none	none	GRAB	PERV.SILICA,PERV/FF CARB,QV AT 100/75,MAFICS TO BIO./PY	
LE0531	670811	6265999	OUTCROP	ANDESITE	LTGREY	fg	none	mod	strong	mod	none	mod	weak	none	tr	none	none	TUFF	GRAB	
LE0604	670630	6268023	OUTCROP	ANDESITE	DKGREY	fg	none	none	veined	mod	mod	weak	none	none	mod	AGGL	CHIP	0.08M WIDTH,0.15M LENGTH,MINOR CALCITE IN VEIN, AGGL TXT IN OC SCALE ONLY		
LE0605	670637	6268009	OUTCROP	ANDESITE	LTGREY	fg	none	weak	mod	veined	weak	none	none	none	3	none	weak	TUFF	CHIP	
LE0672	670623	6265962	OUTCROP	qtzvn	WHITE	wellfrac	none	none	none	none	none	none	none	none	none	VEIN	CHIP	0.5M CHIP,15M LENGTH, PINCHES AND SWELS FROM 0.3M TO 1M		
LE0673	670606	6265963	OUTCROP	qtzvn	WHITE	wellfrac	none	none	none	none	none	none	none	none	none	VEIN	CHIP	1.3M CHIP, RUSTY FF		
LE0674	670642	6265956	OUTCROP	ANDESITE	MDGREY	fg	none	mod	strong	veined	weak	none	none	none	2	none	none	AGGL	CHIP	
LE0675	670641	6265956	OUTCROP	qtzvn	WHITE	modfrac	none	none	none	none	none	none	none	none	none	VEIN	CHIP	1.0M CHIP, FW TO LE0674, MINOR 2mm QZ STRINGERS		
LE0676	670656	6265954	OUTCROP	qtzvn	WHITE	modfrac	none	none	none	none	none	none	none	none	none	VEIN	CHIP	0.4M SAME LOC AS LE0674, JOINS TO LE0763 BUT NOT CONTINUOUS, 10M LNGTH TO N		
LE0678	670666	6265964	OUTCROP	qtzvn	WHITE	wellfrac	none	none	none	none	none	none	none	none	none	VEIN	CHIP	2M CHIP, AS AT LE0674 SAMPLE THIN QV PLUS ANK. HOST, ZONE 25M ALONG 70E		
LE0681	670624	6265933	OUTCROP	qtzvn	WHITE	modfrac	none	none	none	none	none	none	none	none	none	VEIN	CHIP	1.5M CHIP, LOOKS LIKE A FLATTISH VEIN DIPPING N, CANNOT TRACE ACROSS GULLY TO W		
LE0686																				

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS
LE0731	672003	6267802	OUTCROP	EPICLASTIC	LTGREY	fg	none	none	none	none	none	none	none	none	tr	none	EPICLASTS	GRAB	4 cm QV, ANKERITIC SURFACE WEATHERING OF ARENITE	
LE0734	671984	6267529	OUTCROP	EPICLASTIC	GRYBRN	fg	none	weak	none	none	none	none	none	1	none	none	EPICLASTS	COMPGRAB	1 TO 2cm QV	
LE0735	672034	6267499	OUTCROP	SEDS	LTGREY	fg	none	none	none	none	none	none	none	2	none	none	COMPGRAB	FOLIATED RUSTY ZONE WITH X-CUTTING QV, LOCAL MASSIVE PY PODS		
LE0736	672040	6267500	OUTCROP	qtzvn	WHITE	massive	none	none	none	none	none	none	none	none	tr	tr	VEIN	COMPGRAB	SAME AS LE0735 BUT SAMPLE IS OF QV MATERIAL ONLY	
LE0737	672010	6267503	OUTCROP	qtzvn	WHITE	massive	none	none	none	none	none	none	none	tr	tr	VEIN	CHIP	VEIN ONLY CHIP, 4cm QV, TR GALENA		
LE0738	672012	6267503	OUTCROP	SEDS	LTGREY	foliated	none	none	none	none	none	none	none	tr	none	CHIP	0.2m CHIP, FW TO LE0737, FOLIATED WITH PO IN FOLIATIONS			
LE0739	671907	6267523	OUTCROP	qtzvn	WHITE	massive	none	none	none	none	none	none	none	tr	none	VEIN	COMPGRAB	30cm THICK QV WITH PY, HOST IS UNALTERED SEDIMENT		
LE0741	671857	6267540	OUTCROP	EPICLASTIC	PINKGRE	fg	none	none	none	none	veined	none	none	tr	tr	none	EPICLASTS	COMPGRAB	SAME AS LE0740, SILICIFIED NEAR QV, SERICITIC FOLIATIONS	
LE0744	671771	6267530	OUTCROP	EPICLASTIC	PINKGRE	fg	none	weak	none	none	veined	none	none	tr	tr	none	EPICLASTS	COMPGRAB	TRACE MARIPOSI, QVNEIN HOSTS SULFIDES, SILICA FLOODING NEAR VEIN,	
LE0754	671801	6267571	OUTCROP	DIOR	LTGREY	fg	none	none	weak	none	none	none	none	tr	none	none	COMPGRAB	DI DYKE AT 205 TREND, QV IN MANY DIRECTIONS, TR GALENA IN QV		
LE0755	671849	6267532	OUTCROP	EPICLASTIC	PINKGRE	fg	none	weak	none	none	veined	none	none	tr	tr	none	EPICLASTS	COMPGRAB	4cm QVS, PERV BIOTITE, QVS HACE CALCITE FF ON MARGINS	
LE0759	671812	6267576	OUTCROP	EPICLASTIC	LTGREY	foliated	none	none	mod	none	weak	none	none	1	tr	none	EPICLASTS	COMPGRAB	IN CONTACT WITH DIOR, WELL FOLIATED, LOCAL SILICA ADJ. TO QV	
LE0760	671822	6267579	OUTCROP	EPICLASTIC	LTGREY	foliated	none	weak	weak	none	none	none	none	1	tr	none	EPICLASTS	COMPGRAB	WK FOLIATION, END IF INTENSE QV STRINGERS, QV ARE 1 TO 5cm 50 cm APART	
LE0765	671842	6267585	OUTCROP	EPICLASTIC	LTGREY	fg	none	weak	none	mod	none	none	none	tr	tr	none	EPICLASTS	COMPGRAB	4cm QV WITH RUST SFC, 1% GN, TR PO, SILICIFIED NEAR QV SERIC. FOL.	
LE0766	671788	6267598	OUTCROP	DIOR	MDGREY	mg	none	strong	none	weak	veined	none	none	tr	tr	none	COMPGRAB	ANK WEATHER SFC, VNS IN ALL DIRECTIONS, PO IN QV, PERV BIO ALTN HOSTS PO		
LE0767	671752	6267810	OUTCROP	EPICLASTIC	LTGREY	foliated	none	weak	mod	none	none	none	none	tr	none	none	EPICLASTS	CHIP	0.3m CHIP, NO VEINS, RUSTY SURFACE, FOLIATED RAFT IN DIORITE	
LE0770	671728	6267833	OUTCROP	DIOR	PINKGRE	fg	none	weak	none	weak	none	none	none	1	tr	none	COMPGRAB	ABUNDANT QV, SOME WITH GALENA		
LE0772	671678	6267647	OUTCROP	qtzvn	WHITE	wlfac	none	none	none	none	none	none	none	tr	none	VEIN	COMPGRAB	20cm VEIN, CONTINUOUS FOR UP TO 30m, GRAB OVER 5m LENGTH, HOSTED BY EPIC.		
LE0774	671751	6267687	OUTCROP	SEDS	DKGREY	foliated	none	none	none	none	none	none	none	2	tr	none	SHALE	CHIP	0.5m CHIP, NO VIS. VNS, LOCAL PY FF/VEINLETS OF 20% PY, SHALE BED PARALLEL TO FOL.	
LE0775	671771	6267680	SUBTOC	qtzvn	WHITE	wlfac	none	none	none	none	none	none	none	tr	tr	none	VEIN	GRAB	TRACE GN	
LE0779	669857	6265385	OUTCROP	EPICLASTIC	LTGREEN	medbed	none	none	none	none	none	none	none	1	none	none	EPICLASTS	COMPGRAB	140m, RUSTY SFC, BEDS OF FS XTL TUFF/ASH TUFF/XTL-LITHIC TUFF	
LE0780	669829	6265386	OUTCROP	EPICLASTIC	ORANGE	foliated	none	weak	strong	veined	weak	strong	none	none	none	none	EPICLASTS	COMPGRAB	168m, SHEAR GULLY: 40cm TREND 187, PERV ANK. IN CENTER, CHLOR. MARGINS	
LE0781	669774	6265391	OUTCROP	EPICLASTIC	LTGREEN	mg	none	none	weak	veined	weak	none	weak	tr	none	none	EPICLASTS	CHIP	217m, 8cm QV IN ANK ZONE, EP ADJ. TO QV, 204m TO 229m ANK ZONE	
LE0782	669767	6265391	OUTCROP	qtzvn	WHITE	massive	none	none	none	none	none	none	none	none	none	none	VEIN	COMPGRAB	226m, 0.5m QV, SAME HOST AS LE0781	
LE0783	669723	6265391	OUTCROP	EPICLASTIC	LTGREEN	fg	none	none	weak	mod	veined	none	none	1	none	none	EPICLASTS	COMPGRAB	270m, 268m TO 274m QV/ANK ZONE, 1 TO 3cm QV, AT 274m SHEAR - TREND 18	
LE0788	669630	6265447	OUTCROP	EPICLASTIC	LTGREY	vfg	none	none	none	none	none	none	none	1	none	none	EPICLASTS	GRAB	376m, RUSTY SFC, SILICEOUS, VFGD PY	
LE0790	669557	6265488	OUTCROP	EPICLASTIC	ORANGE	foliated	none	none	strong	strong	veined	strong	none	none	none	none	COMPGRAB	452m, ANK. SHEAR WITH CHLOR. MARGINS, SHEAR IS 1.2m WIDE, MINOR QZ/CARB VNS		
LE0800	669317	6265650	OUTCROP	qtzvn	WHITE	massive	none	none	none	none	none	none	none	none	none	none	VEIN	COMPGRAB	749m, 10 TO 50cm QV EXPOSED FOR 10m, EPICLASTIC HOST WITH WK MT, MOD CARB, WK CHL	
LE0804	669082	6265668	TALUS	EPICLASTIC	LTGREEN	mg	none	none	veined	veined	none	none	none	none	none	none	EPICLASTS	FLOAT	1057m, MANY TALUS SUGGEST NEARBY SOURCE, QZ STRNGRS WTH RARE MP, LOCAL BLEACHING	
LE0808	670237	6260124	OUTCROP	SEDS	MDGREEN	blocky	none	none	mod	mod	veined	weak	mod	none	1	none	none	TURBIDITE	GRAB	SAMPLE 20cm QZ/ANK ZONE, QZ VNS ARE BX AND PINCH AND SWELL(1-5cm), CHAOTIC FRAGS
LE0807	670238	6260126	TALUS	SEDS	ORANGE	sheared	none	none	mod	mod	veined	weak	mod	none	none	none	TURBIDITE	FLOAT	SAME LOCATION AS LE0806	
LE0810	670314	6268921	TALUS	qtzvn	ORANGE	wlfac	none	none	none	none	none	none	none	none	none	none	VEIN	FLOAT	NO QV IN OC BUT ABUNDANT TALUS FRAGS ALL <50cm, SOME ANK FRAGS ALSO	
LE0811	670281	6268881	OUTCROP	qtzvn	WHITE	modfac	none	none	none	none	none	none	none	none	none	none	VEIN	GRAB	CANNOT DETMN ATT., HOSTED BY TURBIDITE, 2m WIDE IN OC	
LE0813	670335	6268859	TALUS	qtzvn	WHITE	vuggy	none	none	none	none	none	none	none	none	none	none	VEIN	FLOAT	DISCON. QZ/CARB VNS (TO 8cm WIDE) CP IN FF, MC/AZ, HOSTED BY MYLONITE	
LE0816	670413	6268849	OUTCROP	qtzvn	WHITE	modfac	none	none	none	none	none	none	none	none	none	VEIN	COMPGRAB	HOSTED BY SHEARED TURBIDITE, VEIN ATTITUDE 290/75		
LE0819	670584	6268704	SUBTOC	MONZ	ORANGE	mg	none	weak	none	none	none	none	1	none	none	GRAB	MAFICS TO BIOTITE			
PM0198	671424	6263132	OUTCROP	ANDESITE	MDGREEN	fg	none	none	weak	mod	mod	weak	none	tr	none	none	TUFF	GRAB	ank present as rusty pits on oc surface also along ff, py diss throughout	
PM0200	671485	6263045	OUTCROP	SEDS	MDGREY	fg	none	none	mod	weak	none	mod	none	2	none	none	GRAB		ank perv throughout; gives slight orange hue to ws, ser perv, py diss throughout	
PM0201	671578	6263040	OUTCROP	ANDESITE	MDGREEN	fg	none	none	weak	weak	none	mod	mod	tr	none	3	TUFF	GRAB	ch1 perv, ser very weak, py diss ughou	
PM0204	671789	6262920	OUTCROP	ANDESITE	MDGREEN	fg	none	none	weak	mod	none	mod	weak	none	1	none	none	XTLTF	GRAB	increased ank possibly due to xcutting fracture sets filled with qtz/carb vns
PM0205	671802	6263050	OUTCROP	ANDESITE	MDGREEN	fg	none	none	mod	mod	none	weak	weak	none	tr	none	none	TUFF	GRAB	
PM0210	671928	6263203	OUTCROP	ANDESITE	LTGREEN	fg	none	none	weak	mod	mod	weak	none	2	none	none	XTLTF	GRAB	oc more ank than surrounding, x-cut by thin qtz/carb vns, possibly inter w lapi	
PM0211	671622	6263245	OUTCROP	ANDESITE	MDGREY	fg	none	none	weak	mod	mod	weak	none	1	none</td					

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS
PM0285	671341	6262860	OUTCROP	ANDESITE	LTGREEN	fg	none	none	mod	strong	none	mod	weak	none	4	none	none	GRAB		py concen along fracs and qtz vns up to 4mm wide, could be a sed
PM0286	671314	6262873	OUTCROP	ANDESITE	LTGREY	fg	none	none	mod	strong	none	weak	none	none	tr	tr	none	GRAB		intense alt makes ident difficult
PM0288	871208	6262617	OUTCROP	ANDESITE	MDGREEN	fg	none	none	weak	mod	none	mod	mod	none	tr	none	none	TUFF	GRAB	RANDOMLY ORIENTED QTZ/CARB VNS PRESENT THROUGHOUT UP TO 1CM WIDE
PM0305	672228	6268396	TALUS	ANDESITE	DKGREY	fg	none	none	mod	weak	none	strong	none	none	tr	none	none	GRAB		buff to rust colored bldrs among chl rich andesite tuff bldrs. bldr 80cmx40cm
PM0308	672145	6268418	OUTCROP	qtzvn	WHITE	massive	none	none	strong	veined	strong	none	none	none	tr	none	none	VEIN	GRAB	carb/qtz vns in a 0.5m wide shear zone, strong fe carb rust, wall rk and tuff
PM0307	672005	6268459	OUTCROP	ANDESITE	MDGREEN	fg	none	none	weak	mod	none	none	mod	none	tr	none	none	TUFF	GRAB	rusty on ws, banding comp appears to influence strength of rust
PM0310	671773	6268507	TALUS	SEDS	DKGREY	fg	none	none	weak	none	none	strong	none	none	tr	2	none	GRAB		tr galena in a qtz/carb veined bldr sample consists of entire cobble
PM0311	671720	6268635	TALUS	SEDS	DKGREY	fg	none	none	mod	mod	none	mod	none	none	2	none	none	GRAB		angular talus bldr/30cmx20cm, py concentrated in qtz/carb vns.
PM0312	671574	6268767	TALUS	SEDS	DKGREY	fg	none	none	weak	weak	none	none	none	none	tr	none	none	GRAB		rusty cobble with py and po concentrated in qtz/carb vns
PM0313	671440	6268935	OUTCROP	SEDS	ORANGE	fg	none	none	strong	strong	none	strong	none	none	1	none	none	GRAB		perv carb seri, py diss throughout, extreme orange weathered surface
PM0314	671423	6268947	OUTCROP	SEDS	ORANGE	fg	none	none	strong	strong	none	none	none	none	tr	none	none	GRAB		as above
PM0335	682229	6266152	OUTCROP	ANDESITE	MDGREEN	fg	none	weak	none	none	none	none	mod	weak	tr	tr	mod	XTLTF	GRAB	Feld/aug phryic...po blebs thru-out
PM0337	683010	6265824	TALUS	ANDESITE	MDGREEN	fg	none	weak	none	none	none	none	mod	weak	2	none	none	XTLTF	GRAB	Rust on ff, py diss.
PM0344	682854	6268940	OUTCROP	DIOR	LTBROWN	mg	none	none	none	none	none	strong	none	none	none	none	none	GRAB		Possible perv ank alt. Cc conc in veins and on ff. Atn due to multiple fracs
PM0390	870919	6264720	OUTCROP	qtzvn	ORANGE	massive	none	none	mod	veined	veined	weak	none	tr	none	none	VEIN	GRAB	1cm qtz/carb filling frac	
PM0391	670942	6264730	OUTCROP	qtzvn	WHITE	massive	none	none	none	veined	veined	weak	none	none	none	none	VEIN	GRAB	3cm qtz/carb vn filling the fracs	
PM0392	670990	6264763	OUTCROP	ANDESITE	DKGREEN	fg	none	none	weak	weak	none	none	mod	none	tr	none	none	TUFF	GRAB	intersecting joint set! 120st/78d other 360/near vert
PM0393	671046	6264792	OUTCROP	qtzvn	ORANGE	massive	none	none	mod	veined	veined	none	none	none	none	none	VEIN	GRAB	1cm wide qtzvn filling frac	
PM0394	671155	6264889	OUTCROP	qtzvn	ORANGE	massive	none	none	mod	veined	veined	none	none	none	none	none	VEIN	GRAB	5cm qtz vn filling fracs	
PM0395	671194	6264891	OUTCROP	qtzvn	ORANGE	massive	none	none	mod	veined	veined	none	none	none	none	none	VEIN	GRAB	1.5cm wide qtz vn fracture filled cross cut by frac set 44st/80d	
PM0396	671344	6264968	OUTCROP	qtzvn	ORANGE	massive	none	none	strong	veined	veined	none	none	none	none	none	VEIN	GRAB	4cm w qtzvn frac filling x-cut by frac set strike 31/80	
PM0397	671367	6264983	OUTCROP	qtzvn	ORANGE	massive	none	none	mod	veined	veined	none	none	none	none	none	VEIN	GRAB	3cm wide qv filling frac	
PM0398	671469	6265032	OUTCROP	qtzvn	ORANGE	massive	none	none	weak	veined	veined	none	none	none	none	none	VEIN	GRAB	5cm qtz carb vn	
PM0399	671572	6265068	OUTCROP	qtzvn	WHITE	massive	none	none	weak	veined	veined	none	none	none	none	none	VEIN	GRAB	4cm wide qtz vn x-cut by frac set 287/80	
PM0400	671638	6265090	OUTCROP	qtzvn	WHITE	massive	none	none	weak	veined	veined	none	none	none	none	none	VEIN	GRAB	2cm wide qzvn x-cut by frac set 256/80	
PM0401	671732	6265134	OUTCROP	qtzvn	YELLOW	massive	none	none	mod	veined	veined	none	none	none	none	none	VEIN	GRAB	1cm wide qtz vn filling fracture	
PM0402	671828	6265218	OUTCROP	qtzvn	ORANGE	massive	none	none	strong	veined	veined	none	none	none	none	none	VEIN	GRAB	.5cm wide qtz vn filling frac	
PM0403	671818	6265439	OUTCROP	qtzvn	ORANGE	massive	none	mod	strong	veined	veined	none	none	tr	none	none	VEIN	GRAB	1cm wide qz vn filling frac	
PM0404	671769	6265426	OUTCROP	qtzvn	WHITE	massive	none	none	weak	veined	veined	none	none	none	none	none	VEIN	GRAB	2cm wide vn on frac face	
PM0405	671678	6265408	OUTCROP	qtzvn	WHITE	massive	none	none	weak	veined	veined	none	none	tr	none	none	VEIN	GRAB	2cm wide vn on ff	
PM0406	671607	6265370	OUTCROP	qtzvn	WHITE	massive	none	none	weak	veined	veined	none	none	none	none	none	VEIN	GRAB	as above	
PM0407	671490	6265339	OUTCROP	qtzvn	WHITE	massive	none	none	weak	veined	veined	none	none	none	none	none	VEIN	GRAB	1.5cm wide vn on ff x-cutting bedding	
PM0408	671399	6265306	OUTCROP	qtzvn	WHITE	massive	none	none	weak	veined	veined	none	none	none	none	none	VEIN	GRAB	as PM0404	
PM0409	671330	6265278	OUTCROP	qtzvn	WHITE	massive	none	none	mod	veined	veined	none	none	none	none	none	VEIN	GRAB	as above	
RC0008	671104	6266440	OUTCROP	DACITE	GRYBRN	mg	none	none	mod	weak	none	weak	none	mod	none	none	TUFF	GRAB	10 cm QZ STRINGER EXPOSED FOR 10 METER	
RC0010	671168	6266455	OUTCROP	DIABASE	BLK	fg	none	none	mod	weak	none	none	none	none	1	none	none	DYKE	CHIP	MAFIC DYKE PLUS 2 QZ STRINGERS ALONG MARGINS
RC0013	671329	6266538	OUTCROP	DIABASE	BLK	fg	none	none	mod	weak	none	none	none	none	2	none	none	DYKE	CHIP	0.2 M CHIP, 20 cm QV IN MAFIC DYKE
RC0014	671392	6266536	OUTCROP	DIABASE	BLK	fg	none	none	mod	weak	none	none	none	none	3	none	none	DYKE	CHIP	0.15 M CHIP, FW OF MAFIC DYKE, 15 CM QV
RC0015	671398	6266542	OUTCROP	DACITE	MDBROWN	fg	none	mod	mod	mod	none	none	none	none	5	none	none	TUFF	CHIP	0.5 M CHIP, QV ALONG HW OF DYKE, TRACE GN
RC0016	671389	6266544	OUTCROP	DIABASE	BLK	fg	none	none	mod	mod	mod	mod	none	none	2	none	none	DYKE	CHIP	1 M CHIP, MAFIC DYKE BETWEEN RC0014 AND RC0015
RC0017	671431	6266540	OUTCROP	DIABASE	BLK	fg	none	none	strong	none	none	none	mod	tr	none	none	DYKE	CHIP	0.3 M CHIP, TR GN, 10 cm QZ STRINGER AND 20 cm DYKE WEST OF RAVINE	
RC0018	671444	6266545	OUTCROP	DACITE	GRYBRN	sheared	none	none	strong	none	none	none	none	none	1	none	TUFF	CHIP	1 M CHIP, SHEARED TUFF AND QV EAST SIDE OF RAVINE	
RC0019	671480	6266533	OUTCROP	DACITE	GRYBRN	fg	none	none	mod	none	none	none	none	none	none	none	TUFF	GRAB	10 cm QUARTZ STRINGER	
RC0020	671481	6266534	OUTCROP	DACITE	GRYBRN	fg	none	none	mod	none	none	none	none	none	2	none	TUFF	GRAB		
RC0021	671516	6266539	OUTCROP	SEDS	WHITE	fg	none	none	mod	weak	none									

NUMBER	LOCATIONX	LOCATIONY	EXPOSURE	UNIT	COLOR	TEXTURE	HORNFELS	BIOTITIC	SERICITIC	ANKERITIC	SILICA	CARBONATE	CHLORITE	EPIDOTE	PYRITE	PYRRHO	MAGN	LITHO	SAMPLETYP	COMMENTS
RL0200	670740	6264833	OUTCROP	SEDS	WHITE	none	none	none	none	none	veined	weak	none	none	1	none	none	VEIN	CHIP	QV,2m,10m in length;
RL0201	670852	6264913	OUTCROP	SEDS	WHITE	none	none	none	none	none	veined	none	none	tr	none	none	none	VEIN	CHIP	QV,1m,rusty,varying thickness,97m in length
RL0202	670782	6264860	OUTCROP	SEDS	WHITE	none	none	none	none	none	veined	none	none	tr	none	none	none	VEIN	CHIP	QV,2m,pod of qtz
RL0203	670843	6264904	OUTCROP	SEDS	WHITE	none	none	none	none	none	veined	weak	none	none	tr	none	none	VEIN	CHIP	QV,2m,carbonate altn in qv,15m length
RL0204	670863	6265129	OUTCROP	SEDS	WHITE	none	none	none	none	none	veined	none	none	tr	none	none	none	VEIN	CHIP	QV,1m,41m long ,rusty
RL0205	670893	6264849	OUTCROP	SEDS	MDGREEN	vfg	none	weak	weak	mod	weak	strong	mod	none	2	none	weak	EPICLASTS	CHIP	cubic py perv, qv cutting nx,carb in veins 2m chip
RL0206	670894	6264848	OUTCROP	SEDS	MDGREEN	fg	none	weak	weak	mod	weak	strong	mod	none	2	none	weak	EPICLASTS	CHIP	py perv, red ws,qv,2m
RL0207	670863	6264877	OUTCROP	SEDS	LTBROWN	fg	none	weak	weak	mod	weak	strong	none	none	2	none	weak	EPICLASTS	CHIP	py perv, red ws, qv & carbv,3m
RL0208	670872	6264902	OUTCROP	SEDS	MDBROWN	fg	none	none	weak	mod	weak	strong	none	none	1	none	weak	EPICLASTS	CHIP	fine grnd py perv,o/c blchd, carb perv, ank perv,qtz vnlts,2.5m
RL0209	670871	6264900	OUTCROP	SEDS	LTBROWN	fg	none	none	none	mod	strong	mod	none	none	2	none	weak	EPICLASTS	CHIP	py perv & cubic,carb veins,ank rim, 2.5m
RL0210	670867	6264898	OUTCROP	SEDS	LTBROWN	fg	none	none	none	mod	strong	mod	none	none	2	none	weak	EPICLASTS	CHIP	red ws, ank intense,3m
RL0211	670777	6264828	OUTCROP	SEDS		fg	none		none	mod				none	1	none	weak	EPICLASTS	CHIP	py perv,qtz vnlts,2m
RL0212	670780	6264840	OUTCROP	SEDS	LTGREY	fg	none	weak	weak	mod	weak	mod	weak	none	2	none	weak	EPICLASTS	CHIP	py perv,carb perv,3m
RL0213	670795	6264838	OUTCROP	SEDS	MDGREEN	fg	none	mod	none	mod	weak	mod	mod	none	1	none	weak	EPICLASTS	CHIP	py perv, carb perv,3m
RL0214	670794	6264840	OUTCROP	SEDS	MDGREEN	fg	none	mod	none	mod	none	mod	mod	none	1	none	weak	EPICLASTS	CHIP	red ws, carb perv py perv,2.5m
RL0215	670769	6264827	OUTCROP	SEDS	MDGREEN	fg	none	weak	none	strong	weak	strong	weak	none	3	none	mod	EPICLASTS	GRAB	py perv & conc on fts, fuchsite, qtz vnlng,carb perv & in vnlts
RL0216	670792	6264844	OUTCROP	SEDS	RED	fg	none	none	none	strong	weak	strong	none	none	2	none	strong	EPICLASTS	CHIP	carb,ank & qtz vnlq,py perv,2.5m

APPENDIX III

STATEMENT OF COSTS

HEMLO GOLD MINES INC.
STATEMENT OF COSTS

PROJECT: MARIPOSITE

DATE: November, 1995

TYPE OF REPORT: Geological, Geochemical, Linecutting

a) Wages:

No. of Mandays :	124	
Rate per Manday:	\$234.21	
Dates From :	June 12 - Aug. 9, 1995	
Total Wages :	124 x \$234.21	29,042.00

b) Food & Accommodations:

No. of Mandays :	124	
Rate per Manday:	\$27.50	
Dates From :	June 12 - Aug. 9, 1995	
Total Costs :	124 x \$27.50	3,410.00

c) Transportation:

No. of Mandays :	124	
Rate per Manday:	\$41.13	
Dates From :	June 12 - Aug. 9, 1995	
Total Costs :	124 x \$41.13	5,100.00

d) Camp Supplies:

No. of Mandays :	124	
Rate per Manday:	\$23.82	
Dates From :	June 12 - Aug. 9, 1995	
Total Costs :	124 x \$23.82	2,954.00

e) Analysis:

(See attached schedule) 6,868.00

f)	Cost of Preparation of Report:	
	Author : 2 days @ \$300.00	600.00
	Drafting: 2 days @ \$220.00	440.00
	Typing : 1 day @ \$150.00	150.00
g)	Other:	
	Contractor: Pacific Western Helicopters Ltd. 36.2 hrs. @ \$762.50/hr. (including fuel)	27,606.00
	TOTAL COST	\$76,170.00
h)	Unit Costs for Linecutting	
	No. of Mandays : 23	
	No. of Units : 13.625 line kms.	
	Unit Costs : \$943.44/line km.	
	Total Cost : 13.625 kms. x \$943.44	12,854.40
I)	Unit Costs for Geology	
	No. of Mandays : 66	
	No. of Units : 66 mandays	
	Unit Costs : \$558.89/mday	
	Total Cost : 66 x \$558.89	36,886.55
J)	Unit Costs for Geochem	
	No. of Mandays: 35	
	No. of Units: 468 samples	
	Unit Costs: \$56.47/sample	
	Total Cost: 468 x \$56.47	26,429.05
	GRAND TOTAL	\$76,170.00

HEMLO GOLD MINES INC.
DETAILS OF ANALYSIS COSTS

PROJECT:

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
30 elements ICP & Geochem Au	102 soils/talus fines	13.50	\$1,378.00
30 element ICP & Geochem Au	366 rocks	15.00	5,490.00
			\$6,868.00

APPENDIX IV
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

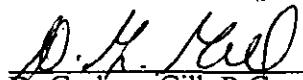
I am a geologist residing at 5442 - 7th Avenue, Delta, B.C.

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

I practiced my profession on a contract basis from 1979 to 1987 and as a permanent employee from 1987 to present.


I am a member in good standing of the Professional Engineers & Geoscientist of British Columbia.





D. Graham Gill, P.Geo.

24,138




LEGEND


TERTIARY		TRIASSIC-JURASSIC	
9	Feldspar porphyry	6	Hogem Batholith
8	Syenite	5	Quartz diorite, granodiorite
7	Quartz monzonite	4	Diorite
		3	Ultramafic
		2	Limestone, calcareous sediments, argillites
		1	Argillaceous-calcareous sediments
			Feldspar porphyritic volcanics; 1A - Augite porphyritic volcanics

SYMBOLS

- Gold soil anomaly
- Quartz-silicate-pyrite alteration
- Showings (minor to major)


REVISED	JOHANSON LAKE AREA	
BY	COMPILATION	
PROJ. No.	SURVEY BY:	DATE: MAY 1993
N.T.S.	DRAWN BY:	SCALE: 1:20000
DWG. No.	NO. 3 NORANDA EXPLORATION OFFICE	





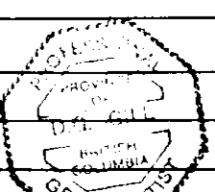
Quartz Vein & Dip

(No Dip Angle Shown = 90)




X LE0168 Sample Location / Number

6264000N

		100 50 0 100 200 300 400M.				
REVISED		MARIPOSITE				
 <i>D.J. Gill</i>		SAMPLE LOCATION MAP				
PROJ. No.	149	SURVEY BY:	G.GILL	DATE:	NOV.2,1995	
N.T.S.	94D/8	DRAWN BY:	G.GILL	SCALE:	1:5000	
DWG No.	6	HEMLO GOLD MINES INC. OFFICE: VANCOUVER				

24,138



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