Province of
British Columbia

Ministry of
Energy, Mines and
Petroleum Resources
GEOLOGICAL SURVEY BRANCH

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)]	TOTAL COST
2005 Geological, Geochemical, Geophysical and Diamond Drilling Report on the Rupert Property	$396,115

AUTHOR(S) Darcy E.L. Baker SIGNATURE(S)

NOTICE OF WORK PERMIT NUMBER(S) /DATE (S) 05-1610019-1013 YEAR OF WORK 2005

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) 4075455 (mo claims), 4075505 (FILL 12, CONNECT01)

PROPERTY NAME Rupert

CLAIM NAME(S) (on which work was done) mo 1 to 19, FILL 12, CONNECT01

COMMODITIES SOUGHT Cu, Au, Mo

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN

MINING DIVISION Nanaimo NTS 092L/12

LATITUDE 50 ° 40 ' 00 " LONGITUDE 127 ° 55 ' 00 " (at centre of work)

OWNER(S)

1) Lumina Resources Corp 2)

MAILING ADDRESS

1550 – 625 Howe St.
Vancouver, BC
V6C 2T6

OPERATOR(S) [who paid for the work]

1) Lumina Resources Corp 2)

MAILING ADDRESS

1550 – 625 Howe St.
Vancouver, B.C.
V6C 2T6

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Island Copper, Hushamu deposit, porphyry, Island Intrusion, Bonanza volcanics, Vancouver Island, Pemberton Hills, NW Expo, Expo Property

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS ARs 2659, 1681, 14393, 15884, 15707, 11460, 15024, 15077, 15367, 16510, 17368

(OVER)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. Support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne	670 line-km	all	$48,830
GEOCHEMICAL			
(number of samples analysed for …)			
Soil	146		
Silt			
Rock			
Other	data compilation		
DRILLING			
(total metres; number of holes, size)			
Core	1108 metres NQ core, 8 holes		$187,174
Non-core			
RELATED TECHNICAL			
Sampling/assaying			$35,000
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammertic (scale ,area)			
Legal surveys (scale ,area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST	$396,115

(see attached Statement of Expenditures for more details)

Lumina Resources Corp.

2005 GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL AND DIAMOND DRILLING REPORT ON THE RUPERT PROPERTY

Volume I – Text

Located in the Northern Vancouver Island Area
Nanaimo Mining Division
NTS 092L/12
50^{o} 40' North Latitude
127^{o} 55' West Longitude

-prepared for-

LUMINA RESOURCES CORP.
1550 - 625 Howe Street
Vancouver, BC
Canada V6C 2T6

-prepared by-

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May, 2006

SUMMARY

The Rupert mineral property was evaluated by several techniques for possible porphyry copper-gold-molybdenum deposits. The proximal Island Copper Deposit – a historic producer located 3.8 km west of the Rupert property boundary – along with several other nearby deposits (e.g. Hushamu, Red Dog) make this property prospective. Although it has previously been explored, particularly during the waning stages of Island Copper mine life, the very poor exposure of the area precludes completely writing off the area. Indeed, previous drilling intercepted anomalous copper and molybdenum mineralization associated with intrusive rocks similar to those at Island Copper.

A helicopter-borne geophysical survey was conducted across the entire property area and the data was evaluated by a geophysical consultant. A three by three kilometre target area was selected as prospective based on resistivity and magnetic patterns. Subsequently, soil samples were collected across this area from a detailed grid. Soil samples were analysed by two separate analytical methods, including a selective leach method which, in certain conditions, is able to “see” through thick overburden by testing for scavenged mobile metal ions. In all, 146 samples were collected. Eight NQ-sized drill holes for 1108 metres were drilled to test the target area.

All drill holes intersected volcanic rocks of the Bonanza Volcanics. No significant mineralization was encountered but evidence of a hydrothermal system was observed. Locally moderate to strong epidote, sericite, silica, hematite and magnetite alteration were all observed and wide intercepts of 3-5% pyrite are present. These styles are consistent with distal parts of porphyry systems and indicate that a poorly understood system is present beneath thick overburden. The selective leach soil technique employed is probably not appropriate for this area. An orientation survey across the Hushamu deposit indicates that standard analytical techniques and the selective leach work equally as well, but neither works above overburden greater than about 20 metres thick.

Although the 2005 drilling failed to intersect potentially economic mineralization, the new information obtained points to a hydrothermal system that is largely unknown. Drilling to date has been almost exclusively from road sites out of convenience. Further drilling could be completed away from existing roads to further test the geophysical target delineated from the 2005 airborne survey.

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1.0 INTRODUCTION

The Rupert Property is an E-W-trending group of mineral claims 20 km long and 5.5 km wide stretching from the east end of Rupert Inlet 20 km southeast of Port Hardy, British Columbia (Figure 1). The Island Copper mine which saw production between 1971 and 1994 is located about three kilometres west of the Rupert Property. The property is almost entirely overburden-covered but was explored between the late 1960s and 1993 – the last year a major exploration program was completed in the area. In 2005, Lumina Resources Corp flew an airborne survey across the area and conducted soil sampling followed by diamond drilling. Equity Engineering Ltd. was contracted to execute the exploration programs and has been retained to report on their results.

2.0 PROPERTY TITLE

The Rupert Property comprises 21 mineral claims staked in March and May, 2005 via the Mineral Titles Online system (Table 1). The property area totals 9704 hectares and all claims are held by Moraga Resources Ltd., a subsidiary of Lumina Resources Corp.

Table 1: Rupert Property Claims

Mineral Tenure	Name	Area (Ha)	Expiry Date
509465	mo 1	492.27	2006/MAR/23
509466	mo 2	492.52	2006/MAR/23
509467	mo 3	492.26	2006/MAR/23
509468	mo 4	492.52	2006/MAR/23
509469	mo 5	492.26	2006/MAR/23
509470	mo 6	492.51	2006/MAR/23
509471	mo 7	492.26	2006/MAR/23
509472	mo 8	492.52	2006/MAR/23
509474	mo 9	492.26	2006/MAR/23
509475	mo 10	492.52	2006/MAR/23
509476	mo 11	492.26	2006/MAR/23
509479	mo 12	492.52	2006/MAR/23
509480	mo 13	492.25	2006/MAR/23
509481	mo 14	492.52	2006/MAR/23
509482	mo 15	492.24	2006/MAR/23
509483	mo 16	492.51	2006/MAR/23
509485	mo 17	492.23	2006/MAR/23
509486	mo 18	492.51	2006/MAR/23
509487	mo 19	492.37	2006/MAR/23
512103	FILL 12	123.05	2006/MAY/05
513183	CONNECT01	225.53	2006/MAY/22
	Total	**9703.89**	

3.0 LOCATION, ACCESS AND GEOGRAPHY

The Rupert Property is located within the northern Vancouver Island area, centred approximately at latitude 50°36' and longitude 127°19' and is covered by NTS map sheet 092L/12. Topography of the property is characterized by low, flat, till covered areas with very subtle relief. Elevations range from

sealevel to 120 m. Vegetation comprises a mix of second- and first-growth forest of fir, hemlock, spruce and cedar. Logging has been active across the property for several decades so second growth areas are highly variable in terms of age, density and ease of access. Approximately 50% of the property area has been clear cut.

Climate is typical of coastal areas of British Columbia with an average annual rainfall in nearby Coal Harbour of 203 cm (Environment Canada online data). Monthly precipitation varies from a low of 4.7 cm in July, to a high of 32.7 cm in November. Temperatures are generally moderate at sealevel with average daily minimum temperatures not lower than 0^{o} at Coal Harbour.

An expansive network of logging roads provides good access to most areas of the Rupert Property. These roads exhibit a wide range of conditions, however, with the worst being completely impassable to vehicles. A few roads have been completely rehabilitated. Several roads have been constructed in the past few years and road building related to logging activities is on-going. The Island Highway (Route 19) cuts through the eastern part of the property. Port Hardy is about a 20 minute drive to the north along this route.

4.0 PROPERTY EXPLORATION HISTORY

In 1962, the British Columbia Department of Mines and the Geological Survey of Canada jointly flew an airborne magnetic survey covering the northern part of Vancouver Island. This survey delineated a belt of north-westerly-trending magnetic highs north of Holberg and Rupert Inlets. Considerable exploration of these anomalies ensued, mostly focused on skarn-type iron deposits. During 1963 and 1964 several programs, mainly of stream sediment sampling, were conducted by numerous companies. No significant discoveries were made, however, and by 1965 very little interest was shown in the region (Muntanion and Witherley, 1982).

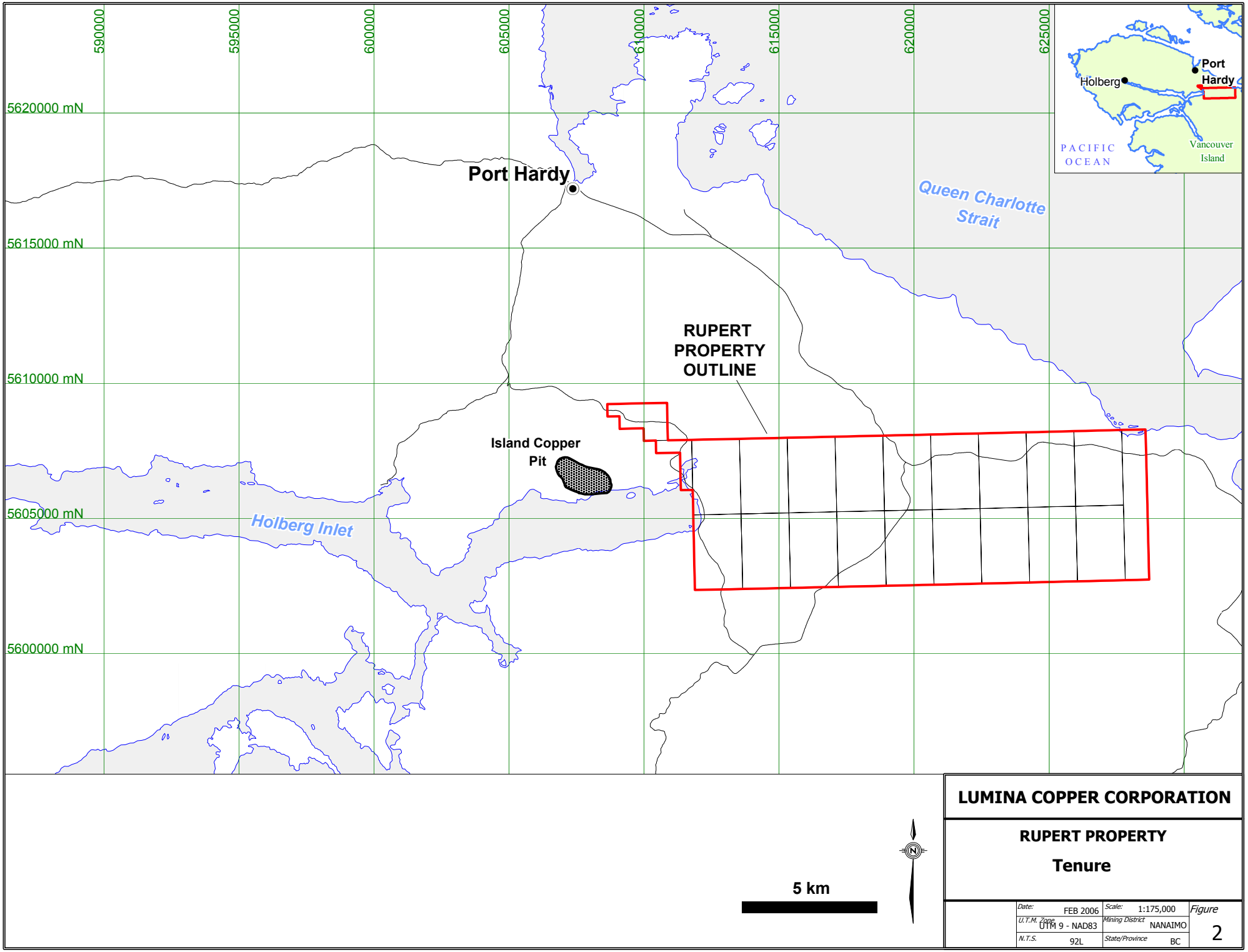
Things changed, however, with the discovery of the Island Copper Mine located 3.5 km west of the current Rupert Area boundary as described by Perelló et al. (1995). A local prospector named Gordon Melbourne staked a magnetic anomaly at Bay Lake near the eastern end of Rupert Inlet and in 1965 discovered chalcopyrite in float, then the bedrock source by trenching. Utah Construction and Mining Co. (Utah) optioned the property in January, 1966 and immediately began a program of mapping, soil sampling and ground geophysics, quickly followed by drill testing beginning in the spring of 1966. The discovery hole – the eighty-second of the program – was drilled in February, 1967 and intersected an 88 m interval grading 0.45% Cu. This was the first deep, follow-up hole drilled. This deposit was developed into the Island Copper Mine, with production beginning in October, 1971 and continuing until December, 1995. The mine produced 345 million metric tonnes (t) of ore with average grades of 0.41% copper, 0.017% molybdenum, 0.19 g/t gold and 1.4 g/t silver (Perelló et al., 1995).

LUMINA COPPER CORPORATION

RUPERT PROPERTY

LOCATION MAP

Date: MAY 2006	Scale: 1:8,000,000	Figure
U.T.M. Zone UTM 9 - NAD83	Mining District NANAIMO	1
N.T.S. 92L	State/Province BC	


590000
595000
600000
605000
610000
615000
620000
625000
5620000 mN
5615000 mN
5610000 mN
5605000 mN
5600000 mN
Port Hardy
Queen Charlotte Strait
RUPERT PROPERTY OUTLINE
Island Copper Pit
Holberg Inlet
Holberg
Port Hardy
PACIFIC OCEAN
Vancouver Island
5 km
LUMINA COPPER CORPORATION
RUPERT PROPERTY
Tenure
Date: FEB 2006
Scale: 1:175,000
Figure 2
U.T.M. Zone: UTM 9 - NAD83
Mining District: NANAIMO
N.T.S.: 92L
State/Province: BC

4.1 Previous Work

Table 2 summarizes all known exploration work carried out on the area comprising the Rupert property.

Table 2: Rupert Exploration History

Program/Zones	Geochemistry	Geophysics	Drilling	Reference
1967 – 1970 Ballinderry, Riviera Expo, Opex, Lorri	1210 soil samples	39.9 line-km IP, 56 line-km mag.		(Baird, 1970; Baird, 1968; Singhai, 1970b)
1974-1980 Utah East 86 Group			12 DDHs (R-01 to 12) for 1561.8m BQ; 545.6m NQ	(Kaiway, 1974; Lamb, 1976, 1977, 1980a, b)
Prior to 1982 Unknown			23 DDHs (C-31, C-98, C-99, C-312 to 314, C-330 to 333, BC-01, BC-03 to 14), at least 14 DDH prior to 1970	Location recorded on 1982 report map (Fleming et al. 1983), and mentioned in (Singhai, 1970a)
1981 – 1982 Utah East 86 Group		124.8 line-km IP/Res., VLF-EM, and mag.		(Fleming et al., 1983)
1983 – 1984 Utah East 86 Group			4 DDHs (R-013 to 016) totalling 555.0m of NQ	(Clarke, 1986a; Fleming, 1983b; Holland and Fleming, 1984)
1985 Utah East 86 Group	1713 soils		1DDH R-017 totalling 169.5m of NQ	(Clarke, 1986a; Fleming, 1985a)
1986 Utah East 86 Group	2159 soils, select 1985 soils re-analyzed		1 DDH R-018 totalling 305m	(Clarke, 1986b, c; Fleming, 1986a, b, 1987; Fleming and Clarke, 1987)
1988 Utah East 86 Group	72 soils, 48 pit samples			(Fleming, 1988)
1993 Utah East 86 Group			3 DDHs (R-019 to 021) totalling 648.3m of NQ	(Fleming, 1993)
Totals	5154 soils, 48 pit samples	Ground: mag., IP/Res., VLF-EM	43 DDHs total meterage unknown	

4.1.1 Riviera Mines and Ballinderry Exploration 1967 to 1970

In 1967, Utah staked 661 claims along strike from the Island Copper deposit and named it the Expo Property after the World's Fair hosted in Montreal that year. This included a large portion of the western half of the current Rupert Property. Records of work done on claims by other companies during this time is incomplete likely due to selective filing for assessment credits.

In 1968 Riviera Mines Ltd. performed a 6.3 line-km IP survey on parts of the Expo and Har claim groups south of Rupert Inlet (Baird, 1968). Areas of weakly anomalous chargeability were delineated on the Expo claims.

In 1969 Ballinderry Exploration obtained parts of the Expo claim block and conducted a 33.6 line-km IP survey, collected 1210 soil samples which were analysed for copper and completed a 56 line-km magnetometer survey (Baird, 1970; Singhai, 1970b). Two east-west trending steeply-dipping magnetic anomalies were identified and attributed to granite dykes with pyrrhotite, pyrite, and chalcopyrite mineralization.

4.1.2 Utah 1974 to 1984

By 1974 Utah had re-acquired and consolidated the Expo claims east of Rupert Inlet. Utah drilled five BQ diamond drill holes totalling 888.2m (holes R-001 to R-005) in the summer of 1974. The drilling was presumably to test previously identified geophysical and geochemical anomalies attributed to the Rupert Stock, although the intention is not stated (Kaiway, 1974). Six more holes were drilled between 1976 and 1980 (R-006 to R-012) totalling 545.6 m of NQ and 673.6 m of BQ. No mention of significant mineralization is mentioned in any of the reports covering this period (Lamb, 1976, 1977, 1980a).

Exploration efforts were renewed in 1981 and a two year program of ground geophysical (IP / resistivity, mag., VLF-EM) and soil geochemical surveys was undertaken with 124.8 line-km of ground geophysics completed. Three geophysical trends were delineated (Clarke, 1983; Fleming et al., 1983):

- The Dyke Trend – originally known as anomalies 81-8, 81-9, 81-11, and 82-1, this group of east-west trending chargeability highs and associated magnetic highs has been attributed to porphyritic dykes extending eastward from the Rupert Stock.
- Quatsino Trend – Comprising chargeability anomalies 81-12 and 82-3, that are located near the inferred contact with Quatsino Limestone to the north and is interpreted to be related to skarn in the limestone. The anomaly is partially contained within the Rupert Property.
- M-1 Anomaly – A small, low-amplitude magnetic high in the southern part of the claim block.

Another trend called the Parson Bay Trend was identified but attributed to pyrite mineralization in Bonanza Group volcanic rocks and was ignored as an exploration target. Subsequent drilling in 1983 and 1984 (DDHs R-013 to -016, totalling 555.0 m of NQ) tested the strike length of the Dyke Trend. All diamond drill holes confirmed the presence of the Rupert Stock-like intrusive rocks and holes R-014 and R-015 returned anomalous copper and molybdenum (30 feet of 0.12% Cu, 0.048% Mo and 10 feet of 0.10% Cu, 0.008% Mo, respectively).

4.1.3 Utah 1985 to 1993

Diamond drilling of the Dyke Trend chargeability anomalies continued in 1985 with one drill hole, R-017, on the far east of the anomaly (Clarke, 1986a). This intersected Parsons Bay Formation from top to bottom and so closed off the eastern extent of the Rupert Stock. The following year the M-1 low-amplitude magnetic anomaly was tested with diamond drill hole R-018 (Clarke, 1986b). The hole intersected magnetite alteration with higher than normal magnetic susceptibility (relative to other data from the same unit). The magnetite alteration was interpreted to be the cause of the M-1 anomaly.

Contemporaneous with the diamond drilling discussed above, a large soil geochemistry survey was undertaken around (Clarke, 1986c; Fleming, 1985a, b, 1986a, b). The survey consisted of 2559 samples with about every second sample being analyzed for copper, molybdenum, lead, zinc, gold, silver, arsenic, and manganese (2435 samples) and 30 element ICP (124 samples + unknown number rerun from 1985 survey). The geochemical survey returned weak anomalies across most of the area except for some anomalous values of Zn, Cu, Au, Mo, and As in the western portion of the survey centered on hole R-017. Further drilling was recommended.

In early 1988 a follow-up geochemical survey was performed taking 48 samples from shallow (0.3 to 1.0 m deep) pits and 72 line samples (Fleming, 1988). Samples from pits 15 and 16 returned anomalous values including 0.06% Mo, 0.13% Cu, 0.75% Zn and 1.1 g/t Au. Further trenching and drilling was recommended for this area. It was not until 1993 that the area would again see drilling. The drilling included a final three holes, one in each of the main areas of previous concern, the far-east anomaly (R-019), the M-1 anomaly (R-020), and the Rupert Stock in the northwest of the property (R-021) (Fleming, 1993). All three holes resulted in low geochemical values and no further drilling was recommended.

4.2 2005 Exploration Program

Ground-based exploration on the Rupert property was conducted during September through December, 2005 following a helicopter-borne geophysical survey completed in May. Jan Klein identified a porphyry copper-gold target on the Rupert property, based on magnetic and resistivity patterns (Klein, 2005a). Outcrop exposure is very limited and glacially-derived overburden reaches depths exceeding 200m. Since no outcrop data was attainable, 138 soil samples were collected across the geophysical target area along north-south oriented grid lines. Given the potentially thick overburden, soil was analysed for 63 elements via ICPMS following digestion in a hot (60^{o}C) hydroxylamine hydrochloride leach. This selective leach method aims to overcome the problems of thick transported overburden by dissolving amorphous hydrous iron oxide which can be an effective scavenger of mobile metal ions.

Subsequently, eight NQ drill holes (R-022 to R-029) were drilled within the main target area for 1108.7 metres. Drill core was logged, sawn and sampled at a temporary core tent constructed at Port Hardy Bulldozing in Port Hardy, BC. Core logs were created using Lagger software from data entered directly into the Lagger databases. Magnetic susceptibility data was collected from all drill core by taking three readings within every drill run and averaging the value. Magnetic susceptibility data are presented on drill logs. For every 60 samples, one randomly selected sample was quartered and re-sampled as part of the QA/QC program. Standards and blank material samples were each inserted at a frequency of one in 30 samples. All core is stored at the long term storage racks at Port Hardy Bulldozing. Driftwood Diamond Drilling Ltd. of Smithers, British Columbia conducted the drilling using their Longyear 38 skid-mounted drill with NQ-sized tools. All drill sites were accessible by Western Forest Products logging roads.

Soil grid locations were obtained by hand held-GPS and lines were run using compass and hip-chain. A magnetic declination of 20°9'E was used for all compass measurements. All maps and UTM coordinates are referenced to the 1983 North American Datum (NAD-83). A total of 138 soil samples were collected in 8 person-days. A field duplicate soil sample was collected about every 20th sample and sample blanks were inserted every 40th sample (Appendix G). Soil sampling sites were marked with orange and blue flagging tape and a weather- and fade-proof Tyvex tag.

Core samples were analyzed by ALS Chemex Labs of North Vancouver for Au (fire assay) and 25-elements by HF-HNO_3-$HClO_4$ acid digestions, HCl leach and ICPAES. Soil samples were analyzed by ALS Chemex Labs of North Vancouver for Au (fire assay) and 34-elements by aqua regia acid digestions and ICPAES. Additionally, the soil samples were also analysed for 63 elements via ICPMS following digestion in a hot (60^{o}C) hydroxylamine hydrochloride leach. Copies of laboratory certificates are reported in Appendices E.1 and E.2. The procedures, results and conclusions of the sampling QA/QC program are summarized in Appendix F.

5.0 REGIONAL GEOLOGY

The most recent description of the regional geology of the Rupert area is given by Nixon et al. (2006) and the following summary is taken predominantly from Nixon's paper and references therein. Figure 3 shows the bedrock geology of northern Vancouver Island.

Vancouver Island is comprised of Upper Paleozoic to Lower Mesozoic rocks of Wrangellia – a tectonostratigraphic terrane that occurs discontinuously northward as far as central Alaska. This terrane was amalgamated to the Alexander Terrane of the Alaskan Panhandle (together comprising the Insular Superterrane) by Late Carboniferous time. Subsequently, these terranes were accreted to North America between the Middle Jurassic and the mid-Cretaceous. Thus, Vancouver Island records an early allochthonous history, and a later history with commonality to the North American margin.

The pre-accretion history of Wrangellia is represented by the Paleozoic Sicker Group and the Middle Triassic Karmutsen Formation. The Sicker Group comprises marine Devonian to Early Permian volcanic and sedimentary rocks that host VMS deposits such as at Myra Falls. The Karmutsen conformably overlies the Sicker Group and comprises basaltic and minor sedimentary rocks that underlie about 50% of Vancouver Island. This unit is up to 6000 m thick. Richards et al. (1991) argued that the Karmutsen was initiated by, and extruded above a mantle plume and recent geochemical data support an oceanic plateau origin for the Karmutsen (Greene et al., 2006). The Karmutsen is in turn conformably overlain by the Quatsino Formation of limestone consistent with a period of quietude following impingement of a mantle plume.

The Bonanza Arc (DeBari et al., 1999) formed along the length of Vancouver Island during accretion of Wrangellia. Owing to later tiling, products of this arc from various crustal depths are all preserved. These include the Westcoast Crystalline Complex, Island Intrusions and the Bonanza Group volcanic rocks. DeBari et al. (1999) argue that all these components have similar ages and geochemical signatures and that they are therefore all products of a single arc. Ages for these rocks range from ca 190 to 169 Ma. Plutonic rocks of the Island Intrusions are responsible for porphyry copper mineralization on Vancouver Island.

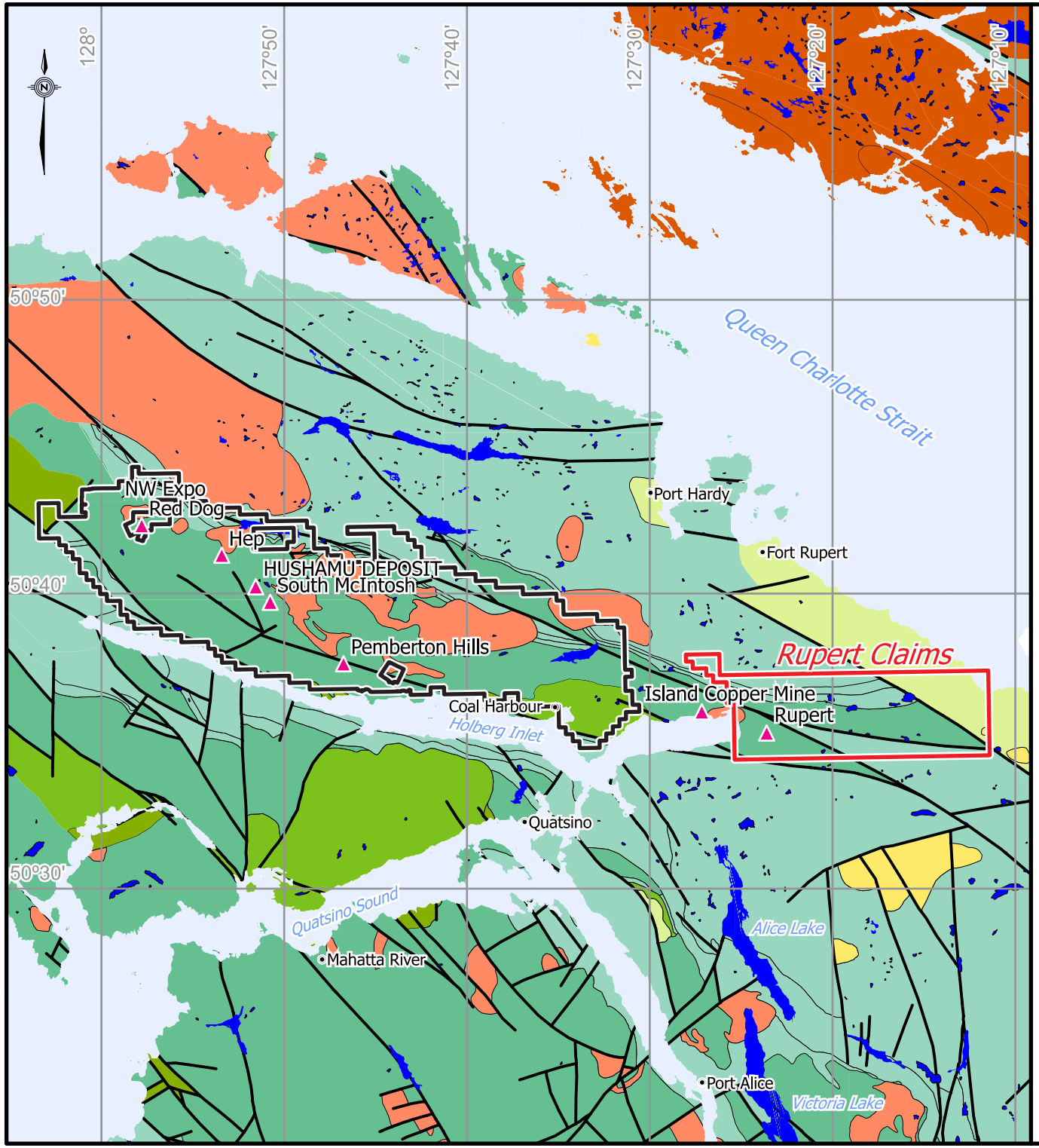
6.0 PROPERTY GEOLOGY

6.1 Lithology

The following geological description of the Rupert Property is summarized from a compilation map by (Fleming, 1983a) and from the map by (Nixon et al., 2000). The property is underlain by a generally southward-younging sequence of east - west-trending upper Triassic to middle Jurassic volcanic and lesser sedimentary rocks belonging to the Vancouver and Bonanza Groups (Figure 4). Table 3 summarizes the characteristics of these rock units. The northern part of the property is underlain by mafic volcanic rocks of the Karmutsen Formation. These thickly bedded to massive flows form the topographically highest points in this part of Vancouver Island.

Immediately to the south, the Karmutsen is conformably overlain by the Quatsino Formation of fine-grained (micritic), massive to weakly bedded grey limestone. In this area, the Quatsino Formation is approximately 100-200 m thick. Lying above the Quatsino Formation is the Parson Bay Formation comprising thinly-bedded siltstone and mudstone on the Rupert Property.

Most of the core of the Rupert Property is underlain by "Bonanza" volcanic rocks that occur above the Parson Bay rocks. These generally comprise a monotonous sequence of massive andesitic volcanic rocks but in drill core local well-bedded tuffaceous units were encountered. Owing to displacement across the Rupert Fault, the Karmutsen is also exposed along the southern part of the property.



Legend

- undivided sedimentary rocks
- undivided sedimentary rocks
- intrusive rocks
- undivided sedimentary rocks
- granodioritic intrusive rocks
- limestone
- basaltic volcanic rocks
- intrusive rocks, undivided
- metamorphic rocks

▲ Deposit, Prospect

12.5km

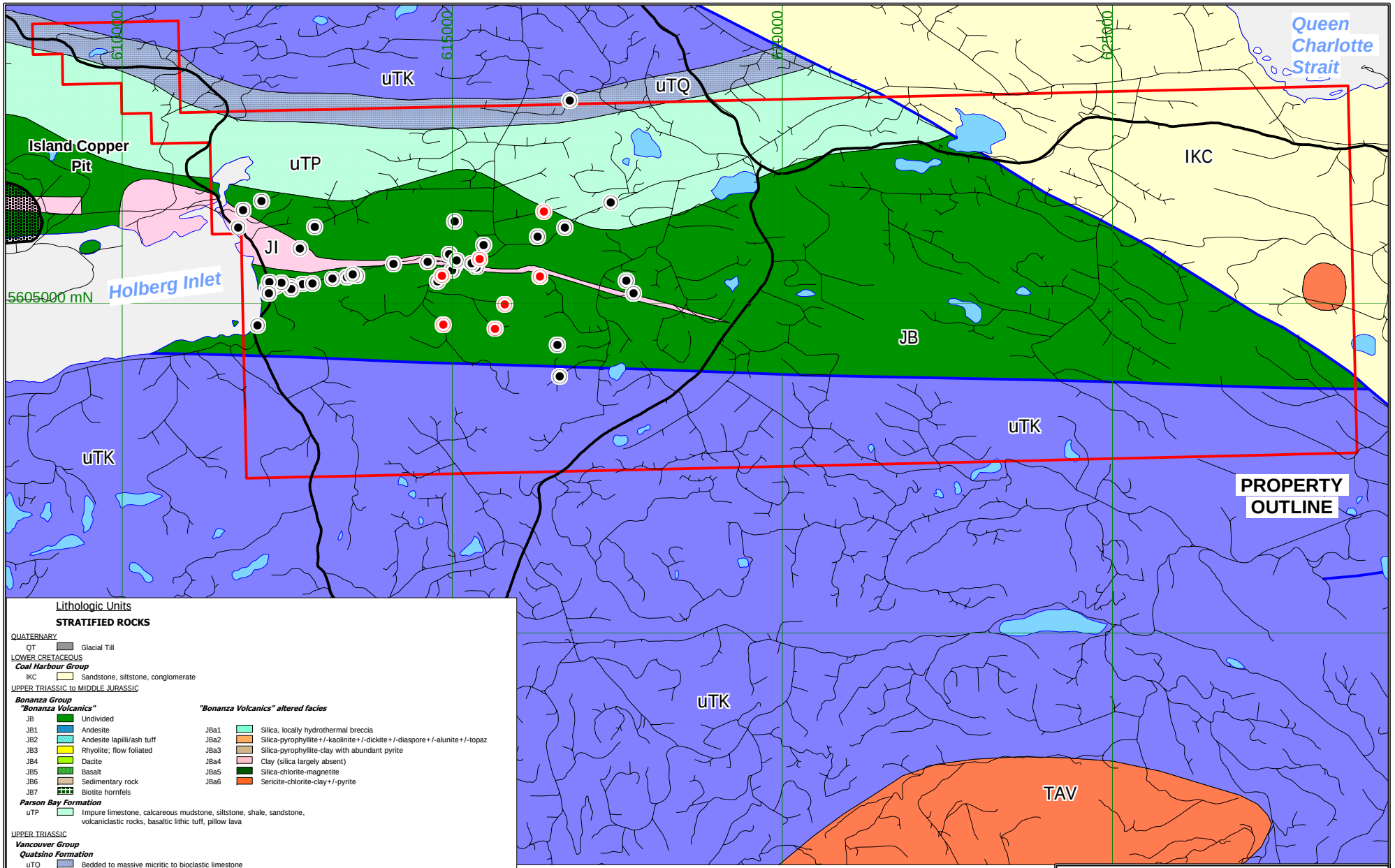
After Massey et al. (2005)

LUMINA COPPER CORPORATION

RUPERT PROPERTY

Regional Geology

EQUITY	Date: MAY 2006	Scale: 1:175,000	Figure
	U.T.M. Zone: UTM 9 - NAD83	Mining District: NANAIMO	3
	N.T.S.: 92L	State/Province: BC	



Lithologic Units

STRATIFIED ROCKS

QUATERNARY
- QT — Glacial Till

LOWER CRETACEOUS
Coal Harbour Group
- IKC — Sandstone, siltstone, conglomerate

UPPER TRIASSIC to MIDDLE JURASSIC
Bonanza Group

"Bonanza Volcanics"		***"Bonanza Volcanics" altered facies***	
JB	Undivided		
JB1	Andesite	JBa1	Silica, locally hydrothermal breccia
JB2	Andesite lapilli/ash tuff	JBa2	Silica-pyrophyllite+/-kaolinite+/-dickite+/-diaspore+/-alunite+/-topaz
JB3	Rhyolite; flow foliated	JBa3	Silica-pyrophyllite-clay with abundant pyrite
JB4	Dacite	JBa4	Clay (silica largely absent)
JB5	Basalt	JBa5	Silica-chlorite-magnetite
JB6	Sedimentary rock	JBa6	Sericite-chlorite-clay+/-pyrite
JB7	Biotite hornfels		

Parson Bay Formation
- uTP — Impure limestone, calcareous mudstone, siltstone, shale, sandstone, volcaniclastic rocks, basaltic lithic tuff, pillow lava

UPPER TRIASSIC
Vancouver Group
Quatsino Formation
- uTQ — Bedded to massive micritic to bioclastic limestone

Karmutsen Formation
- uTKls — Thin horizons of limestone near the top of the succession
- uTK — Aphanitic to coarsely plagioclase-phyric subaerial basalt, commonly amygdaloidal, local pillows and hyaloclastite

INTRUSIVE ROCKS

TERTIARY
Intrusive Dykes, Sills and Stocks
- TI — Basalt

EARLY to MIDDLE JURASSIC
Island Plutonic Suite
- JI — Undivided: medium to coarse grained, equigranular to porphyritic granitoid rocks
- JI1 — Diorite
- JI2 — Quartz feldspar porphyry
- JI3 — Granodiorite
- JI4 — Monzonite

Minor Intrusions
- JBi — Mafic intrusions inferred to be "Bonanza" age

Modified from
Moraga (1989), Nixon et al. (1997),
Nixon et al (2000).

2.5 km

LUMINA COPPER CORPORATION

RUPERT PROPERTY

PROPERTY GEOLOGY

Date: MAY 2006	Scale: 1:80,000	Figure 4
U.T.M. Zone: UTM 9 - NAD83	Mining District: NANAIMO	
N.T.S.: 92L	State/Province: BC	

The northeast corner of the property is underlain by a fault-bound, unconformably overlying clastic wedge of Upper Cretaceous sedimentary rocks correlative to the Nanaimo Group.

The core of the property is intruded by a series of east-west dykes interpreted to be apophyses emplaced eastward from the Rupert Pluton. This granodiorite body crops out at the northeast corner of Rupert Inlet, immediately east of the Island Copper Mine. The Rupert Pluton is part of the Jurassic Island Plutonic suite responsible for porphyry Cu-Au-Mo mineralization at Island Copper.

Table 3: Rupert Lithologic Units

STRATIFIED ROCKS:

QUATERNARY

QT gravel, boulder till, local mud-rich laminated till

UPPER CRETACEOUS

Nanaimo Group

uKN Sandstone, siltstone, conglomerate, minor coal

UPPER TRIASSIC to MIDDLE JURASSIC

Bonanza Group

"Bonanza Volcanics"

JB Undivided volcanic rock

JB1 Andesite: green, variably massive / coherent facies, feldspar-phyric, hyaloclastite breccia common

JB2 Andesite lapilli and/or ash tuff: green, volcaniclastic facies comprising angular to rounded coarse ash to block-sized fragments, locally fine-grained ash size, local charred wood fragments

JB3 Rhyolite: coherent and volcaniclastic facies

JB4 Dacite

JB5 Basalt

JB6 Sedimentary rocks: undivided

JB7 Hornfels, biotite-rich contact metamorphosed Bonanza volcanic rocks

Parson Bay Formation

uTP Impure limestone, calcareous mudstone, siltstone, shale, sandstone, volcaniclastic rocks, basaltic lithic tuff, pillow lava

UPPER TRIASSIC

Vancouver Group

Quatsino Formation

uTQ Bedded to massive micritic to bioclastic limestone

Karmutsen Formation

uTKls thin limestone horizons near top of succession

uTK Aphanitic to coarsely plagioclase-phyric subaerial basalt, commonly amygdaloidal, local pillows and hyaloclastite breccia

Table 3 (con't): Hushamu Lithologic Units

INTRUSIVE ROCKS:

TERTIARY

Intrusive dykes, sills and stocks

TI Basalt, medium-grained weakly to unaltered with chilled margins

EARLY TO MIDDLE JURASSIC

Island Plutonic Suite

JI Undivided: medium to coarse-grained, equigranular to porphyritic granitoid rocks
JI1 Diorite
JI2 Quartz-feldspar porphyry
JI3 Granodiorite
JI4 Monzonite

Minor Intrusions

JB1 Mafic intrusions inferred to be "Bonanza" age

6.2 Structure

The layered units underlying the Rupert Property generally dip gently to steeply southward, although bedding orientation data are very rare. Deformation of the area has been described by Nixon et al. (1994) and is summarized below.

Phase 1: Post-Early Jurassic to Pre-Cretaceous Deformation

The first deformational event is related to an east-northeast directed compressional event that resulted in regional tilting of the Lower Jurassic and older strata to form the Victoria arch. In addition flexural slip folding and the development of northwesterly trending thrust faults occurred during this deformation event. Northeast directed compression is indicated by the presence of locally well developed, northwesterly striking, stylolitic cleavage in the Quatsino limestone.

Phase 2: Post-Mid to Pre-Late Cretaceous Deformation:

The second deformational event postdates deposition of the mid-Cretaceous Coal Harbour Group sediments and may predate deposition of the Upper Cretaceous Nanaimo Group. Northerly directed compression resulted in an episode of intense strike-slip faulting and lesser thrusting. Faults formed during this deformation event are dominantly northwesterly trending structures that have in many cases produced significant drag folding in adjacent strata where the units are well bedded. The most obvious northwesterly trending faults are high-angle dextral strike slip faults with a south-side up sense of motion. It is the presence of this generation of faults that cause most of the stratigraphic repetitions that occur in the map area.

The Holberg fault is a curvilinear south-side up thrust fault that formed during this second deformational event in response to northward directed stresses. This important structure places Upper Triassic strata on the south side of Holberg Inlet adjacent to mid-Cretaceous and older strata on the north side of the inlet. The most convincing kinematic indicator for movement on the Holberg fault is the presence of many northerly verging, gently plunging drag folds in the footwall. Minor coaxial thrust faults and a well-developed stylolitic cleavage in limestones in the footwall also demonstrate this sense of motion. Some of the major NW trending dextral strike-slip faults in the area are splays off the Holberg fault.

Phase 3: Tertiary Deformation

The third deformational event in the area is characterized by northwesterly to north-northwesterly directed extension that postdates the deposition of the Upper Cretaceous Nanaimo Group sediments.

This phase of deformation is represented by minor north-easterly to east north-easterly striking normal faults that affect Upper Cretaceous and older strata. Northeast striking Tertiary dikes intruded during this final phase of deformation.

6.3 Mineralization and Alteration

No significant mineralization was observed on the Rupert Property. Owing to low topographic relief and thick glacial till very few outcrop exposures are present. Within the Rupert geophysical target itself, only two outcrops were found.

6.4 2005 Diamond Drilling

Drilling was conducted during a single phase in 2005. A total of 8 holes for 1108.7 m were drilled within a ~2 km^2 area (Table 4). All holes targeted the Rupert geophysical target selected by Jan Klein during an interpretation of the 2005 airborne survey data. Cross sections for the drill holes are shown in Figures 5a to 5f in the back pocket.

No significant mineralization was encountered in any of the holes drilled. A zone of weak hydrothermal alteration was encountered in R-027 consisting of hematite after magnetite and rare sulphide mineralization.

Table 4: 2005 Diamond Drilling Survey Data

Drill Hole	Target	Collar (UTM NAD 83)			Azimuth	Inclination	Length (m)
		Easting	Northing	Elev (m)			
R-022	Rupert	615650	5604627	33	360	-90	182.9
R-023	Rupert	614867	5604683	31	360	-90	197.2
R-024	Rupert	615417	5605684	33	360	-90	110.0
R-025	Rupert	615417	5605684	33	360	-90	33.5
R-026	Rupert	614846	5605425	16	360	-90	38.7
R-027	Rupert	615796	5604997	35	360	-90	139.3
R-028	Rupert	616330	5605412	42	360	-90	66.4
R-029	Rupert	616389	5605399	47	360	-90	134.4
						TOTAL	1108.7

Drill Hole R-022

Drill hole R-022 tested the Rupert geophysical target area within a 2005 soil anomaly. This hole intersected andesitic volcanic rocks dominated locally by plagioclase-phyric, lapilli and ash tuffs. Weak pyrite mineralization (up to 1%) was encountered within a zone of strong silica and weak sericite alteration. The hole was shut down at 182.9m due to poor ground conditions.

0.0 to 54.8: CASING

54.8 TO 78.8: ANDESITE (JB1): Medium to light green strongly fractured and veined. Moderate epidote alteration, calcite stringers are common and cross-cut by pink to orange zeolite veins.

78.8 to 109.5: ANDESITE LAPILLI TUFF (JB2): Light green to grey with feldspar crystals and feldspar-phyric andesite lapilli 1 to 3 cm diameter. Pervasive epidote, silica and sericite alteration. Weakly mineralized with up to 1% pyrite.

109.5 to 122.4: ASH TUFF (JB2): Medium to light green, coarse ash tuff with sericite, carbonate and patchy epidote alteration. The basal contact is brecciated.

122.4 to 161.4: ANDESITE TUFF (JB2): Mottled red to green with heterolithic lapilli up to 8 cm in diameter. Weak epidote, silica, and hematite alteration but epidote, silica and hematite alteration may be strong locally. Trace occurrence of pyrite.

161.4 to 182.9: ANDESITE (JB1): Black to light green heterolithic volcanic fragmental. Moderate epidote alteration, calcite stringers are common. Volcanic fragmental overlies medium to light green andesite. Abundant calcite and zeolite stringers occur throughout.

EOH = 182.90

Drill Hole R-026

Drill hole R-023 tested the Rupert geophysical target area. This hole intersected andesitic to dacitic volcanic rocks and ended in approximately 36 m of greywacke to well-bedded ash tuff (re-worked?). These rocks have been moderately to strongly epidote-altered throughout. Silica, sericite and clay alteration is patchy and associated with epidote. The intensity of pervasive epidote encountered in this hole is typical of hanging wall alteration at Island Copper mine (J. Fleming, pers. comm.). Although no significant mineralization was encountered in this hole, this alteration akin to a style observed at Island Copper, is significant.

0.0 to 18.3: CASING

18.3 to 28.0: ANDESITE LAPILLI TUFF (JB2): Moderate to strong epidote alteration

28.0 to 44.1: ANDESITE (JB1): Moderate to strong epidote alteration, strongly magnetic.

44.1 to 56.3: ANDESITE LAPILLI TUFF (JB2): Mottled epidote alteration, well-bedded, non-magnetic

56.3 to 138.5: ANDESITE (JB1): Similar to interval 28.0 to 44.1, likely flows.

138.5 to 161.4: DACITE (JB4): Fragmental to fine ash, heterolithic lapilli, relatively fresh with little alteration

161.4 to 197.2: GREYWACKE (JB6): Medium grey to green, coarse, local conglomerate, heterolithic, non-magnetic, moderate carbonate alteration

EOH = 197.2

Drill Holes R-024 and R-025

Drill hole R-024 tested the Rupert geophysical target area. The hole was abandoned at 27.4m without reaching bedrock when casing was lost down the hole.

Drill hole R-025 was a re-drill of lost hole R-024. At 38.7m this hole was also abandoned when the rods became sanded in after encountering a high pressure aquifer.

Drill Hole R-026

Drill hole R-026 tested the Rupert geophysical target area along the flank of an east-west trending magnetic high within BHP's "Dyke Trend". Nearby holes R-014 and R-015 – drilled in 1984 by BHP – returned 30 feet of 0.12% Cu, 0.048% Mo and 10 feet of 0.10% Cu, 0.008% Mo, respectively and revealed minor intrusive rocks similar to the Rupert Stock. Variably sericite, pyrite, silica, and carbonate altered andesite were encountered throughout hole R-026 but the highest geochemical result was 740 ppm Cu.

0.0 to 6.1: CASING

6.1 TO 151.5: ANDESITE (JB1): Variably sericite-pyrite altered massive to fragmental volcanic rock. Several weak to moderately magnetic zones occur. Lapilli and discrete feldspar crystals are visible along less abundant thin horizons.

EOH = 151.50

Drill Hole R-027

Drill hole R-027 was drilled to test the Rupert geophysical target area in an area of high resistivity. Lithologies encountered in this hole include andesite and several fault gouge zones. Moderate sericite and chlorite alteration is widespread and associated with up to 3% pyrite locally. Hematite replacement of magnetite is locally common. The weakened areas of hydrothermal alteration likely became the focus for later faulting. The hole was abandoned at a depth of 139.3 due to poor ground conditions and a total of 48.8 metres of NW casing was lost in the hole.

0.0 to 64.0: CASING

64.0 to 71.8: ANDESITE LAPILLI TUFF (JB2): Medium to light green, fine-grained, with common calcite veins. Moderate chlorite and sericite alteration with weak epidote and carbonate alteration, minor pyrite

71.8 to 72.2: FAULT GOUGE: Clay rich zone with pyrite stringers near the hanging wall. Up to 3 % pyrite.

72.2 to 76.6: ANDESITE (JB1): Pale to dark green, strong sericite alteration, locally occurring magnetite and hematite alteration.

76.6 to 77.3: FAULT GOUGE: Minor quartz and carbonate with up to 3 % sericite and 2 % ankerite (?). Moderately broken.

77.3 to 139.3: ANDESITE LAPILLI TUFF (JB2): Medium green, fine-grained, common calcite and zeolite veins, moderate chlorite alteration and weak epidote and carbonate alteration. Minor pyrite and localized sericite alteration.

EOH = 139.30

Drill Hole R-028

Drill hole R-028 was drilled to test the Rupert geophysical target area within an area characterized by low resistivity and low magnetics. The hole provided only 6.5m of core before ground conditions prevented further recovery and the hole was lost. Andesite was the only lithology encountered in this hole, however this unit exhibited strong silica and weak sericite alteration which fails to explain the resistivity low.

0.0 to 59.9: CASING

59.9 to 66.4: ANDESITE VOLCANIC ROCK (JB1): Light to medium greyish green, strong silica and weak sericite alterations, up to 2% pyrite.

EOH = 66.40, casing twisted off, hole lost.

Drill Hole R-029

Drill hole R-029 was drilled to replace hole R-028 which was lost due to poor ground conditions. This hole intersected dark green andesitic volcanic rocks cut by several fault zones. Alteration is highly variable including sericite, clay, silica and magnetite. A zone at the top of the hole contains 5% pyrite throughout.

0.0 to 54.9: CASING

54.9 to 90.7: ANDESITE LAPILLI TUFF (JB2): Dark grey to black with minor sericitised zones that appear lighter, moderate silica and strong magnetite alteration. Up to 5% pyrite throughout the core. Strong to moderately magnetic.

90.7 to 105.5: ANDESITE (JB1): Dark green to black, variable stringer mineralization with quartz and magnetite in dark intervals

105.5 to 110.0: FAULT BRECCIA: Light green, strongly pyritic zone of strongly fractured andesite. Fault slip is parallel to core access. Strong clay alteration.

110.0 to 134.4: ANDESITE (JB1): Medium green, moderate hematite, silica and sericite alteration, possible biotite alteration, 3% pyrite.

EOH = 134.40

7.0 GEOCHEMISTRY

7.1 Soil Geochemistry

During the 2005 program, 146 soil samples were collected from the Rupert property across a geophysical target area selected from the 2005 airborne survey data (see next section). Samples were collected every 50 m from a grid comprising north-south lines about 250 m apart. Previous drilling in the area has shown overburden to typically be about 30 to 50 m thick and to locally exceed 200 m. Thus, an alternative, non-conventional analysis was used. The soils were analysed for 63 elements via ICPMS following digestion in a hot (60^{o}C) hydroxylamine hydrochloride leach. This selective leach method aims to overcome the problems of thick transported overburden by dissolving amorphous hydrous iron oxide which can be an effective scavenger of mobile metal ions. Additionally, the same samples were analysed for 50 elements via an aqua regia acid digestion and a combination of ICPMS and ICPAES as a comparison with the selective leach method. Twelve samples were also collected from within the known Hushamu deposit as an orientation study for comparison with the Rupert selective leach samples. Overburden depths near the sample sites at Hushamu range from 4 to 29 m.

Figures 6a through 6d show standard soil geochemical results (non-selective leach) for the 2005 samples for copper and molybdenum. Also plotted are 1438 soils from previous soil programs (Fleming, 1985a, 1986a, 1987, 1988). Gold geochemical values are not presented - the 2005 data for gold are all below detection limit for the selective leach method and gold was seldom reported in the historic reports owing to a conclusion that gold results were unreliable due to affects of elevated manganese (Fleming, 1985a). Tables 5 and 6 present calculated percentiles and a correlation matrix for this dataset. Copper shows a fairly strong correlation with molybdenum and a correlation with zinc. Zinc also shows correlation with gold, arsenic and molybdenum.

Table 5: Historic Soil Geochemistry Percentiles

Percentile	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Zn (ppm)
Population	171	936	1341	1427	1307	1413	1427
Max Value	75	99.9	230	910	57	278	1695
98th	35	2.2	36	147	16	278	207
95th	20	1.1	13	100	10	17	111
90th	10	0.5	6	82	8	11	79
80th	5	0.3	3	67	6	5	59
50th	1	0.1	1	47	4	1	38

Table 6: Historic Soil Geochemistry Correlation Matrix

	Au	Ag	As	Cu	Mo	Pb	Zn
Au	--						
Ag	0.04	--					
As	0.10	0.05	--				
Cu	0.00	0.01	0.06	--			
Mo	0.00	0.08	0.35	0.35	--		
Pb	0.00	0.02	0.21	0.00	0.00	--	
Zn	0.40	0.04	0.53	0.14	0.47	0.23	--

Interpreted copper results for the 2005 selective leach samples are shown in Figure 7. This diagram was prepared by Barry Smee using regression techniques which account for sample variables

(e.g. soil horizon type). The result is a residual Cu ratio which is a comparison of relative copper concentrations. The resulting anomalies are weak but are continuous and clear (Smee, written comm.). Percentiles for the 2005 selective leach data (excluding those collected from across the Hushamu deposit) are shown in Table 7. These data typically show very low magnitude upper percentile values.

Table 7: 2005 Rupert Area Selective Leach Soil Geochemistry Percentiles

Percentile	Au (ppm)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Zn (ppm)
Population	131	131	131	131	131	131	131
Max Value	-0.05	0.18	3.4	31	0.18	44.8	28
98th	-0.05	0.12	0.7	24	0.04	13.6	21
95th	-0.05	0.09	0.5	18	0.03	5.6	18
90th	-0.05	0.08	0.4	15	0.02	4.2	16
80th	-0.05	0.07	0.2	12	0.02	2.7	11
50th	-0.05	0.04	0.1	8	0.01	1.6	7

By comparison, the samples collected across the Hushamu deposit (Table 8) typically show higher values of copper and molybdenum consistent with sampling above a mineralized porphyry system. Figure 8 compares the Hushamu selective leach and standard soil analysis data and provides an estimate of the overburden depth at each soil sample location. It is evident from these charts that both methods show similar trends and therefore are both detecting the buried mineralization. Where overburden depths are excessively thick (>20 m), however, both methods fail to return elevated values as shown by samples HMM2-1 and HMM2-2. Samples HMM2-5 and HMM2-6 show low geochemical values for copper and molybdenum despite shallow overburden. Drilling in the immediate area of these samples indicates that mineralization is present in the underlying bedrock. These samples were collected from organic material overlying talus on the flank of Mt. McIntosh, so perhaps barren material transported down this slope masked the underlying geochemical signature.

Table 8: 2005 Selective Leach Soil Geochemistry from Hushamu deposit

Sample	Overburden Depth (m)	Au (ppm)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Zn (ppm)
HMM1-1	5	<0.05	0.074	0.4	42	0.57	14.6	7.1
HMM1-2	5	<0.05	0.135	0.3	45.8	0.61	17.8	8.3
HMM1-3	4	<0.05	0.282	0.2	71.3	2.29	14.7	10.1
HMM1-4	10	<0.05	0.209	0.1	79.8	1.17	39.2	7
HMM1-5	12	<0.05	0.393	0.4	65.2	1.74	33.9	2.6
HMM1-6	16	<0.05	0.338	0.4	62.2	0.66	13.6	2.7
HMM2-1	29	<0.05	0.067	0.1	3.7	0.02	4.1	3.7
HMM2-2	23	<0.05	0.206	0.1	1.9	0.02	5.8	7.2
HMM2-3	19	<0.05	0.374	1.2	32.3	0.18	6.9	10.8
HMM2-4	14	<0.05	0.097	0.1	10.4	0.14	3.5	4.2
HMM2-5	9	<0.05	0.195	0.1	0.79	0.02	4.8	7.5
HMM2-6	4	<0.05	0.118	<0.1	0.62	0.01	4.3	8

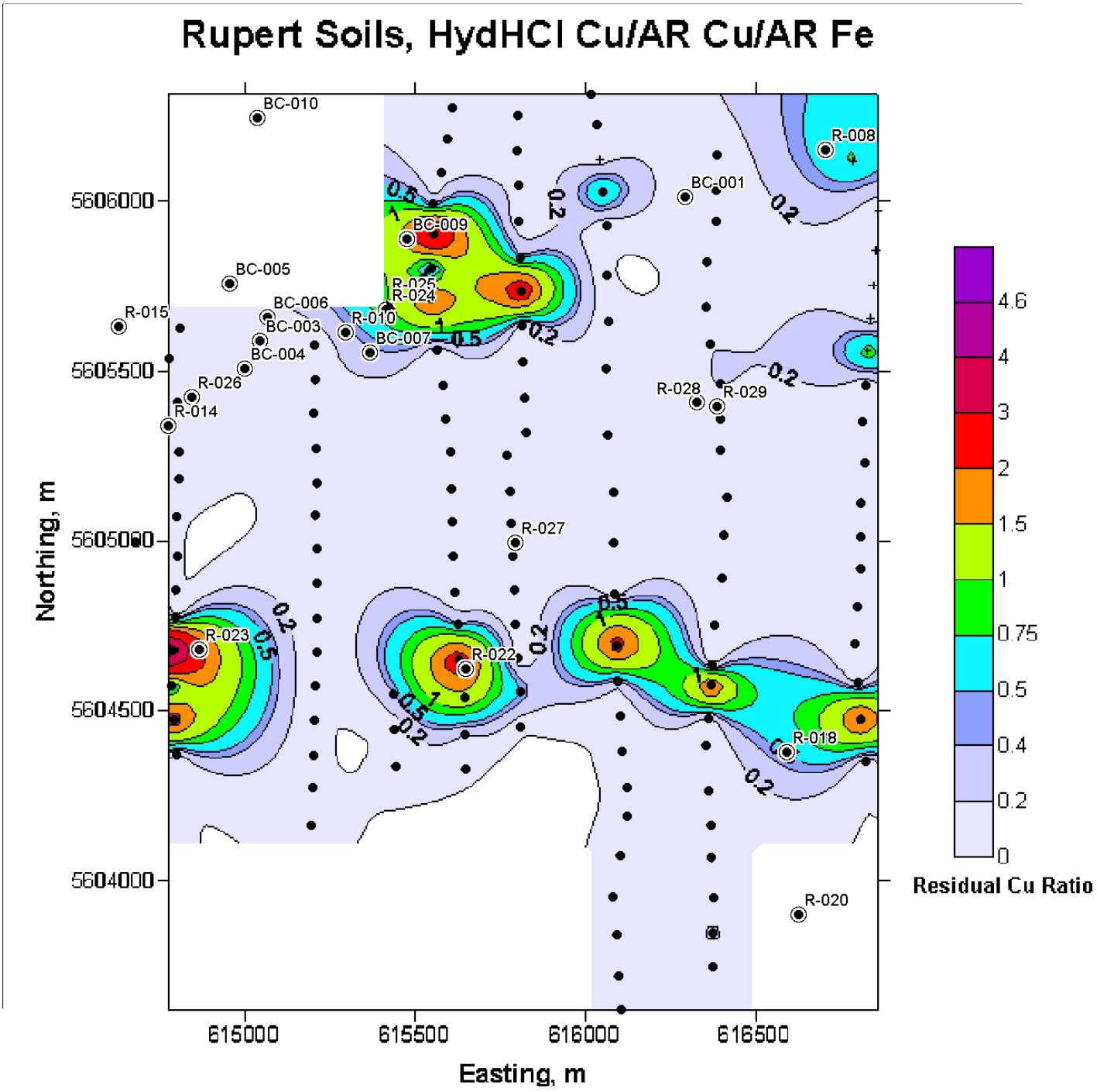


Figure 7: Contour plot of the 2005 Rupert Soil Grid. A residual Cu ratio prepared using regression techniques to account for sample variables (e.g. soil horizon type) was used to prepare the plot. Drill hole and sample locations are shown. Produced by Barry Smee.

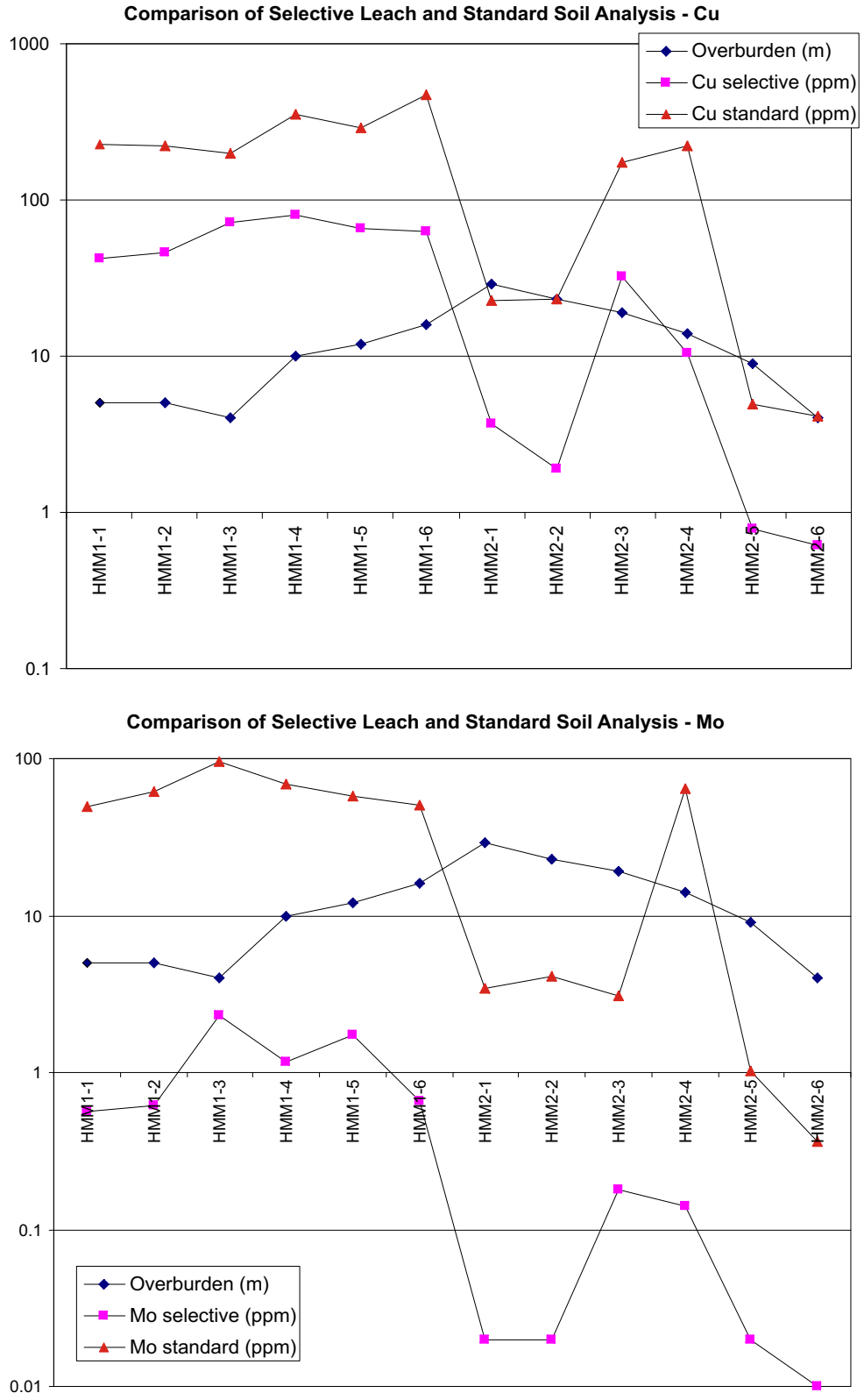


Figure 8: Soil sample data for selective leach analyses (squares) compared with standard analyses (triangles) for the samples collected across the Hushamu deposit. Overburden depth as estimated from drill data is shown (diamonds). Scale is logarithmic.

Comparison of the soil analyses from the Hushamu deposit area suggest that both the hot hydroxylamine hydrochloride leach (selective leach) and the standard aqua regia acid digestion techniques would detect a porphyry system provided that overburden is less than about 20 m thick. If overburden is thicker, it appears that the geochemical signature is completely masked. Likewise, transported barren talus effectively masks geochemical signatures even where overburden is shallow.

8.0 Airborne Geophysics

During the period May 4 to May 11, 2005 a DIGHEM$^{V\text{-}DSP}$ electromagnetic / resistivity / magnetic survey was flown by Fugro Airborne Surveys Corp. over the Rupert and adjacent Hushamu properties. Survey coverage consisted of approximately 2687 line-km, including tie lines and approximately 25% of this grid covered the Rupert property. Line separation was 200 m and lines were flown north-south. A 203 page report was prepared by Fugro and was subsequently reviewed by consulting geophysicist Jan Klein. For further specifics on the methods, materials used, detailed results, and conclusions the reader is referred to Smith (2005) and Klein (2005b). What follows is a synopsis from these sources.

Interference from seawater and power lines affected calculated resistivity for up to 400 m from power lines and a significant distance from seawater inlets. No EM signatures were obtainable over the Island Copper Pit due to salt water currently residing in the pit. EM and magnetic signatures over areas of known mineralization were highly variable. Due to this variability no single anomalous signature could be used as an indicator for similar, undiscovered mineralization.

Within the Rupert property area, a single target was selected by Klein located to the east of the Island Copper Mine. This area comprises large resistivity lows combined with a magnetic pattern suggesting structural offsets (Figure 6e and f).

9.0 DISCUSSION AND CONCLUSIONS

The 2005 Rupert exploration focused on discovering a porphyry system east of the Island Copper deposit. Given that several showings and deposits occur within the belt westward from Island Copper, it is reasonable that similar systems are also present to the east within the same belt or rocks. This area, however, is difficult to explore: topography is subdued and overburden is typically quite thick. This precludes using basic techniques such as mapping or standard soil analyses to obtain reliable data sets.

As a first stage in 2005, the Rupert area was surveyed with a helicopter-borne electromagnetic / resistivity / magnetic geophysical system. Results in the Rupert area were examined by geophysicist Jan Klein who highlighted a three by three kilometre target. Broad resistivity lows with flanking magnetic highs showing structural offsets indicated a potential for buried porphyry systems. Reconnaissance prospecting and mapping in the area showed almost nil outcrop exposure. A logging road system criss-crosses the target area allowing easy access to the area for drill-testing.

Prior to drilling, soil samples were collected from a grid across the main target area. Samples were analysed by a selective leach technique designed to “see” through cover. The results of this survey did produce two multi-line anomalies which served as good starting points within an otherwise blind target. Drilling of these anomalies, however, failed to intersect mineralization casting doubt on the soil technique. To test the technique, an orientation survey was conducted across the Hushamu deposit located west of Island Copper. At Hushamu, a 220 Mt deposit is known to outcrop below locally thick transported overburden. Both the selective leach and standard soil analyses detected mineralization buried by less than ~20m of overburden. Where overburden is thicker, sample results were low. Drilling within the Rupert 2005 anomalies has shown overburden to be from 18 to 55 metres thick so it is likely that the soil analyses and anomalies do not reflect underlying bedrock sources.

Despite a lack of mineralization within the 2005 drill holes, several holes did indicate the presence of a large alteration system. Hole R-023 intersected moderately to strongly epidote-altered andesite over about 40 metres, locally with possible secondary magnetite. Hole R-026 which was drilled

near the 1984 BHP holes that intersected anomalous copper and molybdenum, did not return significant mineralization but did intersect variably sericite-silica altered and pyritic andesite. Holes R-028 and R-029, drilled within an area characterized by low resistivity, intersected moderate to strongly sericite-pyrite-altered andesite volcanic rocks. The east-west-trending dyke system intersected by BHP was not intersected in the 2005 drilling. Given that this system is thought to be steeply-dipping, this is not surprising given that all the 2005 holes were oriented vertically.

Soil sampling across the area – even using selective leach techniques – seems to be inappropriate given the thick overburden across the area. Further drilling from existing roads is not recommended as most road-accessible areas of interest have been drilled. All 2005 and earlier drilling was seemingly drilled on existing roads out of convenience. Further testing of the BHP "Dyke Trend" would be warranted if drill sites were not confined to existing roads.

Respectfully submitted,

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Appendix B: Statement of Expenditures

Statement of Expenditures
Rupert Block
February 1, 2005 - December 18, 2005

Data Compilation and Airborne Geophysics
(Prorated by area covered: 20% Rupert / 80% Hushamu)

PROFESSIONAL FEES AND WAGES:			
Scott Heffernan, Project Geologist			
2.60 days @ $520/day	$ 1,353.04		
Henry Awmack, P.Eng.			
2.05 days @ $520/day	1,066.00		
Stewart Harris, P.Geo.			
0.01 days @ $520/day	6.24		
Dave Pawliuk, P.Geo.			
2.08 days @ $520/day	1,079.52		
Mike Henrichsen, Geologist			
7.53 days @ $420/day	3,160.92		
Scott Parker, Drafting/Logistics			
20.80 hours @ $50/hour	1,040.00		
Clerical			
72.15 hours @ $25/hour	1,803.75	$	9,509.47
EXPENSES:			
Plot Charges	$ 154.80		
Printing and Reproductions	55.40		
Maps and Publications	4,290.19		
Meals	31.30		
Accommodation	92.95		
Parking	1.80		
Truck Rental (non-Equity)	320.82		
Automotive Fuel	61.90		
Automotive Expenses	12.24		
Ferries	18.00		
Airfare	170.00		
Telephone Distance Charges	5.00		
Courier	26.14		
Airborne Geophysics	48,830.40		
Geophysical Consulting	1,294.77		55,365.70
SUB-TOTAL (Compilation and Airborne Geophysics):		$	64,875.17

Diamond Drilling and Fieldwork
(Based on actual costs)

PROFESSIONAL FEES AND WAGES:			
Jim Lehtinen, P.Geo.			
48.50 days @ $520/day	$ 25,220.00		
Arthur Nelson, Sampler			
17.00 days @ $250/day	4,250.00	$	29,470.00

Statement of Expenditures
Rupert Block
February 1, 2005 - December 18, 2005

EQUIPMENT RENTALS		
Field Computers		
48 days @ $25/day		1,200.00
EXPENSES:		
Chemical Analyses (estimated)	$ 35,000.00	
Meals	517.85	
Accommodation	16,240.00	
Core Saw Rental (non-Equity)	620.60	
Cat	16,700.00	
Drilling: Mob/Demob	12,000.00	
Drilling: Footage	128,242.00	
Drilling: Materials	23,417.16	
Drilling: Standby/Moves/Travel	6,815.00	
Expediting	459.00	
Report (estimated)	5,000.00	245,011.61
SUB-TOTAL (Drilling and Fieldwork):		$ 275,681.61
PROJECT SUPERVISION CHARGES:		
12% on portion <$100,000: ($20,000.00)	$ 2,400.00	
10% on portion <$500,000: ($80,000.00)	8,000.00	
8% on balance: ($240,556.78)	19,244.54	29,644.54
SUB-TOTAL:		$ 370,201.32
GST: 7% on sub-total		25,914.09
TOTAL:		**$ 396,115.41**

Appendix D: Diamond Drill Logs

DRILL LOG

Project: Rupert	**Collar Elevation (m):** 33.0
Hole R 022	**Azimuth (º):** 360
Location: 5604627 m North, 615650 m East	**Dip (º):** -90.0
Logged by: J. Lehtinen	**Length (m):** 182.90
Drilled by: Driftwood Drilling	**Horizontal Projection:**
Assayed by: ALS Chemex-Vancouver	**Vertical Projection:**
Core Size: NQ	
Date Started: 2005/11/11 **Date Completed:** 2005/11/15	
Dip Tests By: none	
Objective Test Rupert area near soil anomaly.	

Summary Log:

0.0 to 54.8: CASING

54.8 TO 78.8: ANDESITE (JB1): medium to light green. mEP alteration, calcite stringers common

78.8 to 109.5: ANDESITE LAPILLI TUFF (JB2): pervasively epidote, silica and sericite altered, 1% PY

109.5 to 122.4: ASH TUFF (JB2): medium to light green, patchy EP, CA alteration

122.4 to 161.4: ANDESITE TUFF (JB2): red-green, wEP, wSI, wHE but locally strong EP, SI, HE alteration

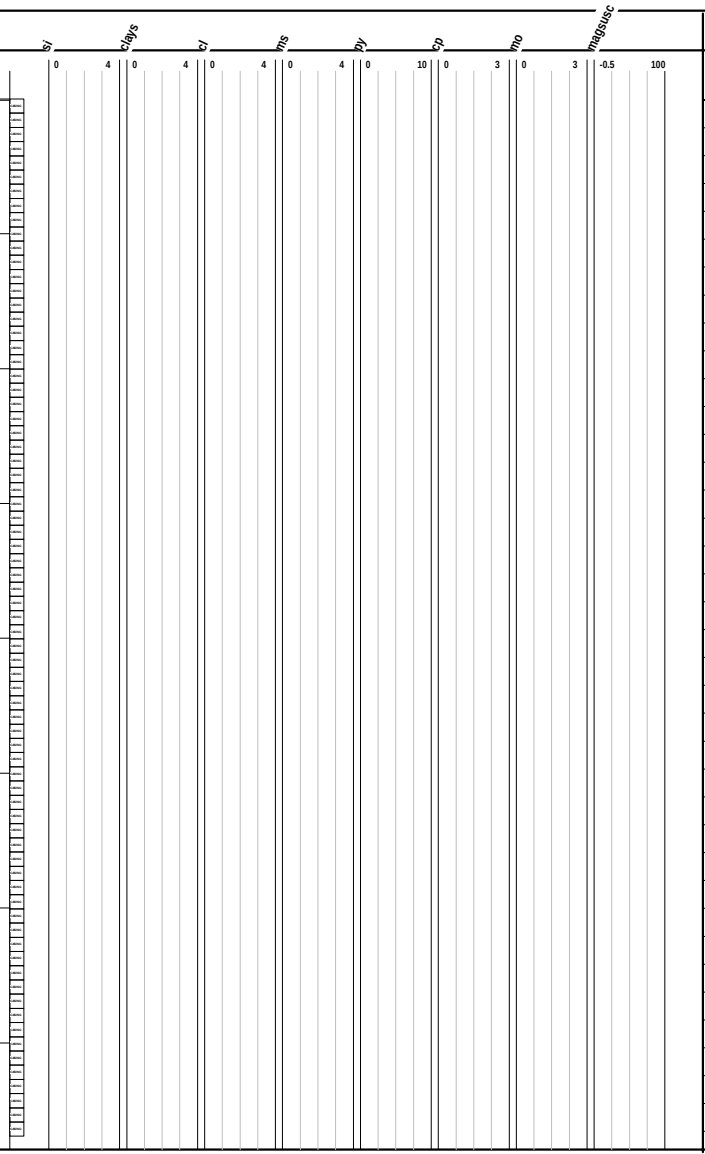
161.4 to 182.9: ANDESITE (JB1): medium to light green. mEP alteration, calcite stringers common

EOH = 182.90

Project: Hushamu05 **Hole Number:** R 022

From	To	Rocktype & Description
0.00	54.80	CASN

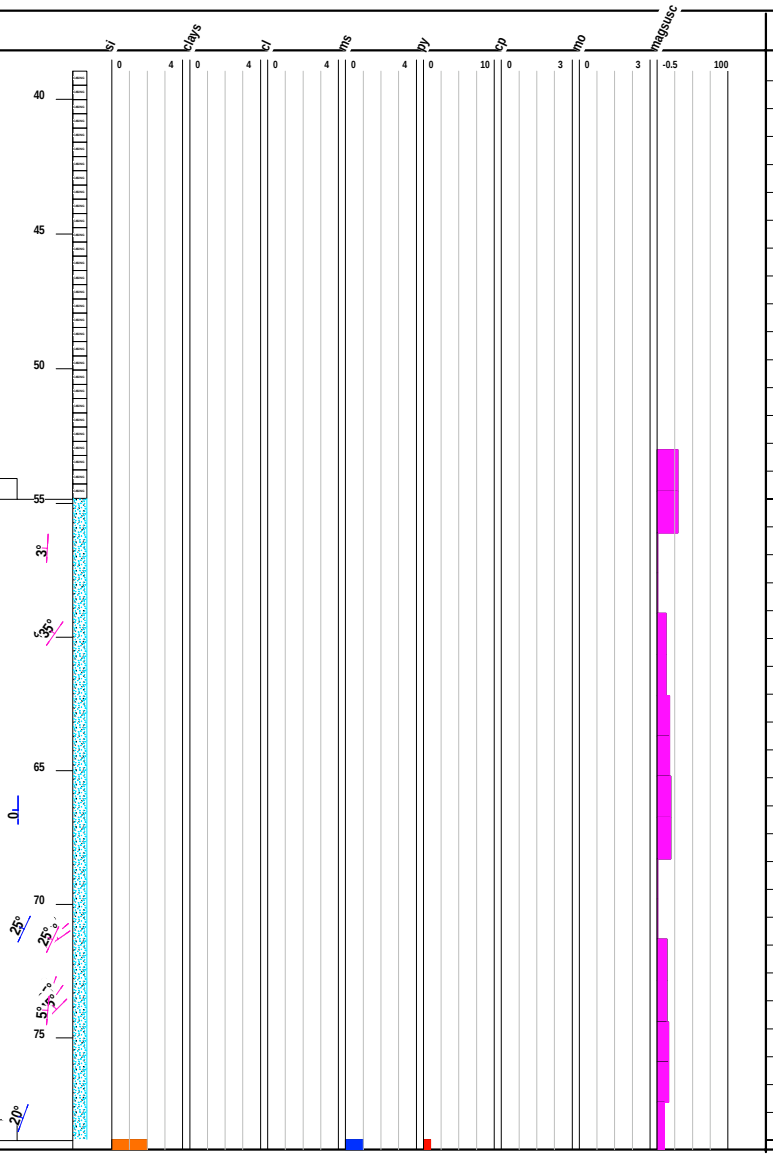
Casing. Rubble in box dominantly intermediate volcanics, commonly with epidote amygdules



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Project: Hushamu05 **Hole Number:** R 022

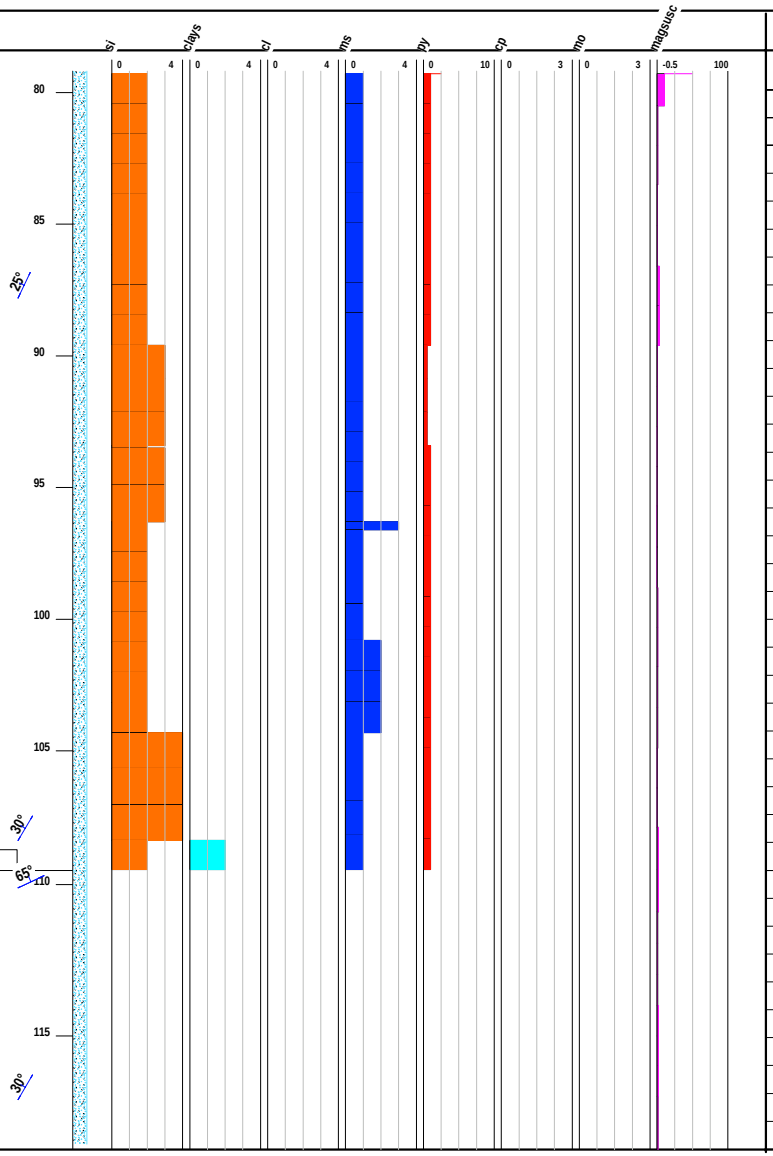
From	To	Rocktype	& Description
54.80	78.80	JB1	Andesite: Medium to light green, strongly broken and veined. Calcite and epidote veining cross-cut by later pink-orange zeolite veining. « variable epidote alteration commonly parallel to epidote cacite stringers. Numerous zeolite stringers calcite epidote » < @ 57.20 vein 3° 1cm > calcite, epidote, zeolite stringer < @ 60.30 calcite vein 35° >, zeolite « 54.80- 56.00 FLTG » < @ 67.00 fault breccia > with calcite, epidote < @ 71.40 zeolite calcite veins 50° 1cm > < @ 71.60 zeolite calcite vein 55° 1cm > < @ 71.80 zeolite calcite vein 25° 1cm > < @ 71.40 fault breccia 25° > veins < @ 73.70 zeolite calcite vein 20° > < @ 73.90 zeolite calcite vein 35° > < @ 74.30 zeolite calcite vein 45° > < @ 74.50 zeolite calcite vein 5° >
78.80	109.50	JB2	



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
83.50	86.60	3.10	336402	0.010	130.0	-10.00

Project: Hushamu05 **Hole Number:** R 022

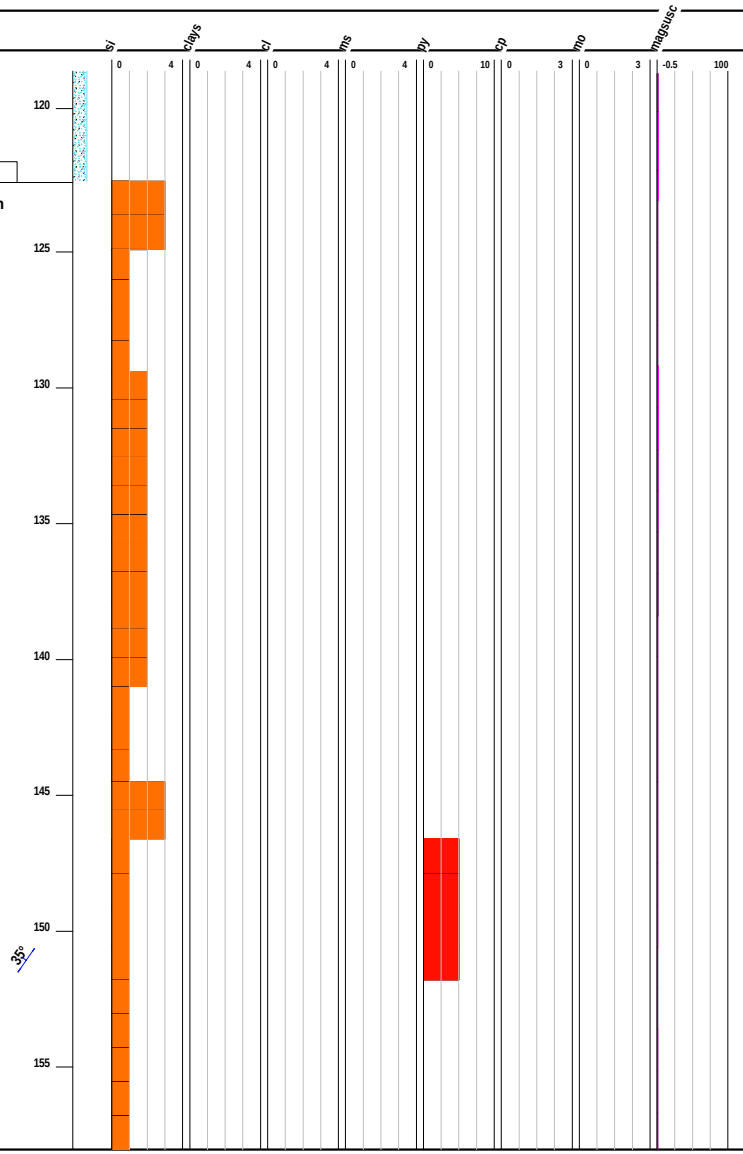
From	To	Rocktype & Description
		Sharp break in alteration. Light green grey. Non to weakly magnetic. Lapilli to crystal tuff. Lapilli fragments highly variable in content and size. Commonly 1 to 3 cm. Composed of feldspar phyric andesite. Altered pervasively with epidote, silica and sericite. Alteration variable throughout unit. Minor pale orange altered feldspar phenocysts to 2mm. Possibly hematite alteration. Hematite alteration increasing towards bottom of interval. Euhedral pyrite grains throughout up to 1%. Epidote-calcite stringers and calcite stringers. Rare, crude banding 60 TCA, possibly bedding? or alteration?
		Minor fault slips throughout.
		« 78.80- 109.50 pyrite 1.00%» « epidote 3.00» « si 2.00» « ms 1.00» « epidote 2.00»
		« 89.60- 93.40 si 3» « pyrite 0.50%»
		< @ 78.50 late fault breccia 20.00° > late, minor slip fault
		< @ 87.80 fault breccia 25.00° > minor fault slip fault
		« 93.50- 96.30 si 3.00» « epidote 3.00» « he 1.00»
		« 96.30- 96.60 epidote 4.00» « ms 3.00»
		« 100.80- 104.30 he 2.00» « ms 2.00»
		« 104.30- 108.40 si 4.00» « epidote 2.00» « he 2.00»
		< @ 110.10 fault gouge 65.00° >
		« 108.40- 109.50 cy 2.00» Med. brown hematite and clay? Numerous fine calcite stringers. Patchy silica
109.50	122.40	JB2
		Medium to light green coarse ash tuff. Fragments rounded to angular, also crystal component. Fragments generally less than 2mm. Mafics commonly chlorite altered. Pale green sericite alteration. Minor calcite alteration and calcite stringers. Patchy epidote alteration and select epidote altered fragments. Fragment size increasing towards bottom of interval. Brecciated basal contact.
		< @ 108.40 fault breccia 30.00° > Weak fault slip
		< @ 117.10 fault breccia 30.00° > weak fault slip



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
89.60	92.70	3.10	336403	-0.010	-10.0	-10.00
101.80	104.30	2.50	336404	0.010	10.0	-10.00
104.30	106.40	2.10	336406	-0.010	-10.0	-10.00

Project: Hushamu05 **Hole Number:** R 022

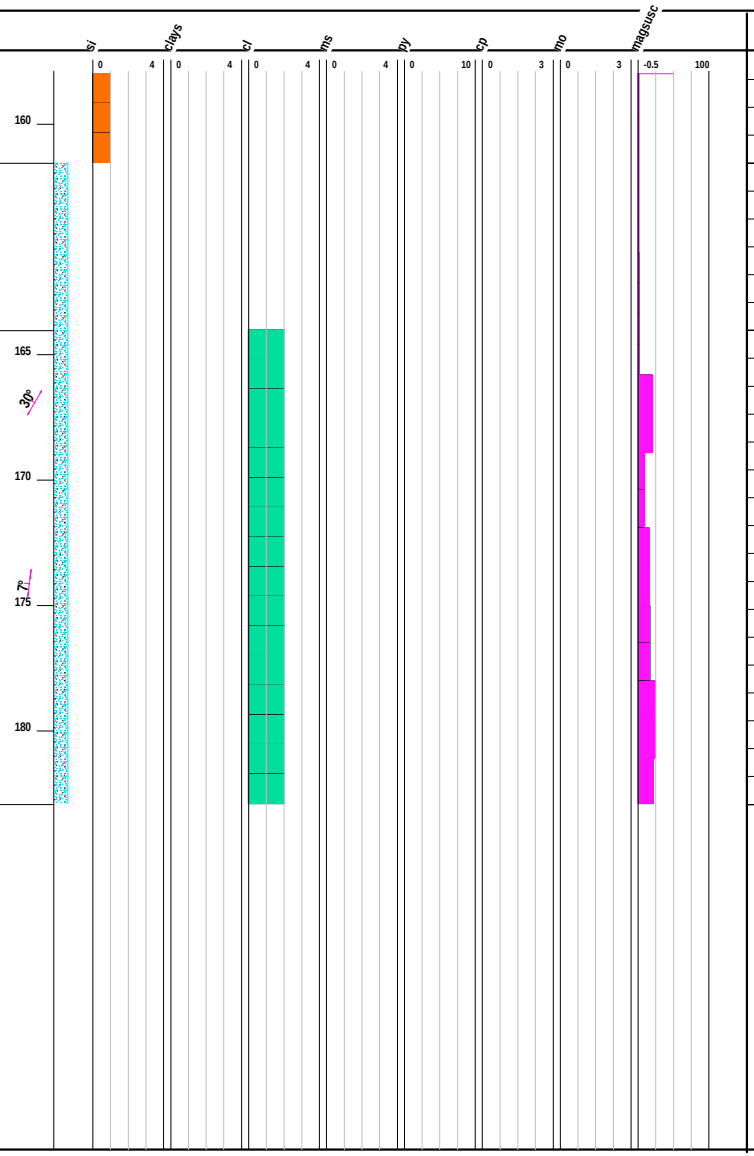
From	To	Rocktype	& Description
			« 119.30- 122.40 fault gouge 5.00°» strongly broken core with minor fault gouge sub parallel TCA
122.40	161.40	ANLT	Extremely reddish brown and green mottled colour. Red-brown hematite and green epidote. Variable fragment size up to 8 cm, commonly 2cm modal size. Heterolithic fragment composition from vfg ash tuff(?) to andesite porphyritic fragments. Numerous calcite stringers and minor carbonate alteration in narrow sections. Dominant alteration = epidote,silica and hematite. « epidote 1.00» « si 1.00» « he 1.00» « 122.40- 124.90 si 3.00» « epidote 3.00» « 124.90- 129.40 he 3.00» « epidote 3.00» « si 2.00» « cb 1.00» « 129.40- 141.00 epidote 2.00» « si 2.00» « cb 1.00» « 141.00- 144.50 epidote 2.00» « 144.50- 146.60 si 3.00» « epidote 2.00» « 146.60- 151.80 pyrite 5.00%» « he 2.00» < @ 151.50 fault gouge 35.00° > « 151.80- 161.40 epidote 2.00» « si 1.00» « cb 2.00»



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
126.20	129.20	3.00	336407	0.010	10.0	-10.00
138.40	141.40	3.00	336408	-0.010	130.0	-10.00

Project: Hushamu05 **Hole Number:** R 022

From	To	Rocktype & Description
161.40	164.00	JB1
		Zone of dark black to light green mixed volcanic fragmental. Black material, possibly carbon alteration, in part, or fine grained carbonaceous muds overlying the flow unit below. Minor calcite stringers. Minor drusy quartz in open space
		< @ 162.00 fault 30° >
164.00	182.90	JB1
		Andesite: variably coloured from medium-light grey-green to medium to dark maroon-grey. Fine-grained with minor chloritized mafics up to 2 mm. Minor zones with fine feldspar phenocrysts. Complete interval with numerous calcite and orange zeolite stringers with no preferred orientation. Minor quartz stringers and drusy openings. Variably magnetic from 165.9 to 183.0m. Strongest magnetics in maroon and dark green rocks. Rubbly broken core at base of intercal. Drilling stopped in very blocky ground and an aquifer.
		« cl 2.00» « epidote 1.00»
		< @ 167.40 quartz, carbonate vein 30° 5cm > with wallrock breccia fragments
		< @ 174.70 quartz vein 7° 2cm >
182.90	182.90	EOH



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Drill Log Legend


ANDS

ANLT

CASN


FLBX


FLTG


JB1


JB2


JB4


JB5


JB6


JBa1


JBa2


JBa3


JBa4


JBa5


JBa6


JI1


JI2


JI3


JI4


OVBN


Rubble


Ti


bedding


fault


fault beccia


fault breccia


fault gouge


vein


veinlet

DRILL LOG

Project: Rupert	**Collar Elevation (m):** 31.0
Hole R 023	**Azimuth (º):** 360
Location: 5604683 m North, 614867 m East	**Dip (º):** -90.0
Logged by: J. Lehtinen	**Length (m):** 197.20
Drilled by: Driftwood Drilling	**Horizontal Projection:**
Assayed by: ALS Chemex-Vancouver	**Vertical Projection:**
Core Size: NQ	
Date Started: 2005/11/15 **Date Completed:** 2005/11/18	
Dip Tests By: none	
Objective	

Summary Log:

0.0 to 18.3: CASING

18.3 to 28.0: ANDESITE LAPILLI TUFF (JB2): moderate to strong epidote

28.0 to 44.1: ANDESITE (JB1): moderate to strong epidote, strongly magnetic

44.1 to 56.3: ANDESITE LAPILLI TUFF (JB2): mottled epidote alteration, well-bedded, non-magnetic

56.3 to 138.5: ANDESITE (JB1): similar to 28.0 to 44.1, likely flows

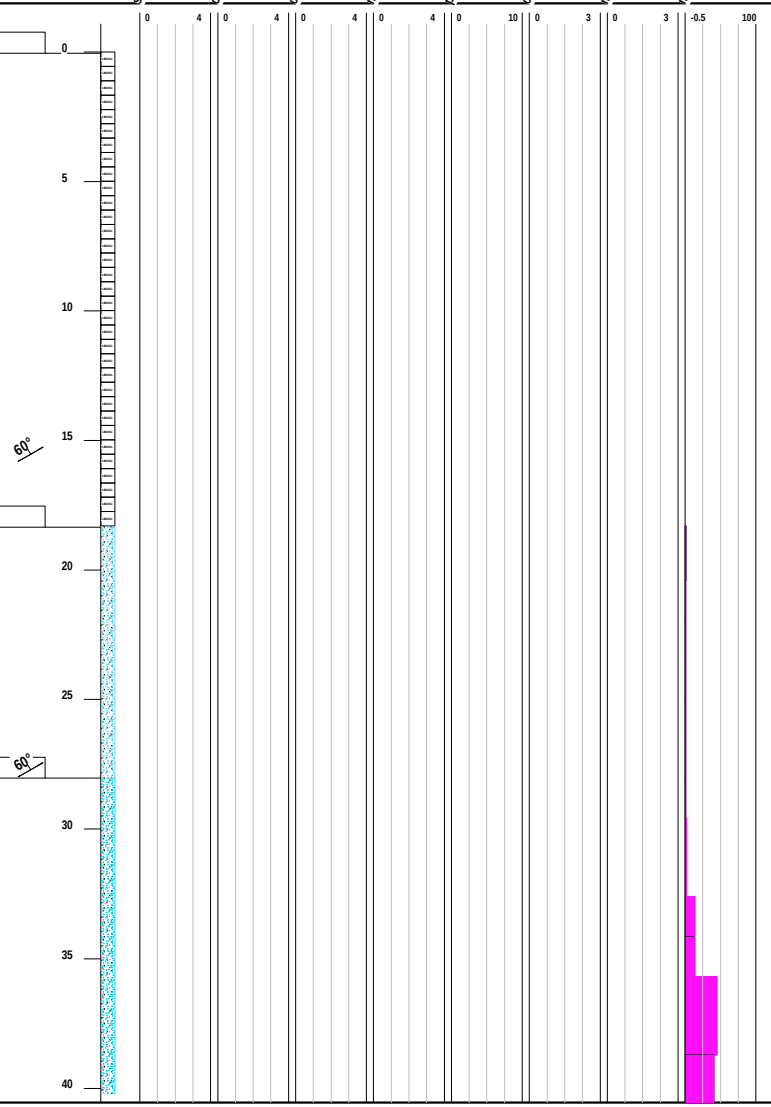
138.5 to 161.4: DACITE (JB4): fragmental to fine ash, heterolithic, fresh

161.4 to 197.2: GREYWACKE (JB6): medium grey-green, coarse, local conglomerate, heterolithic, non-magnetic, mCA

EOH = 197.2

Project: Hushamu05 **Hole Number:** R 023

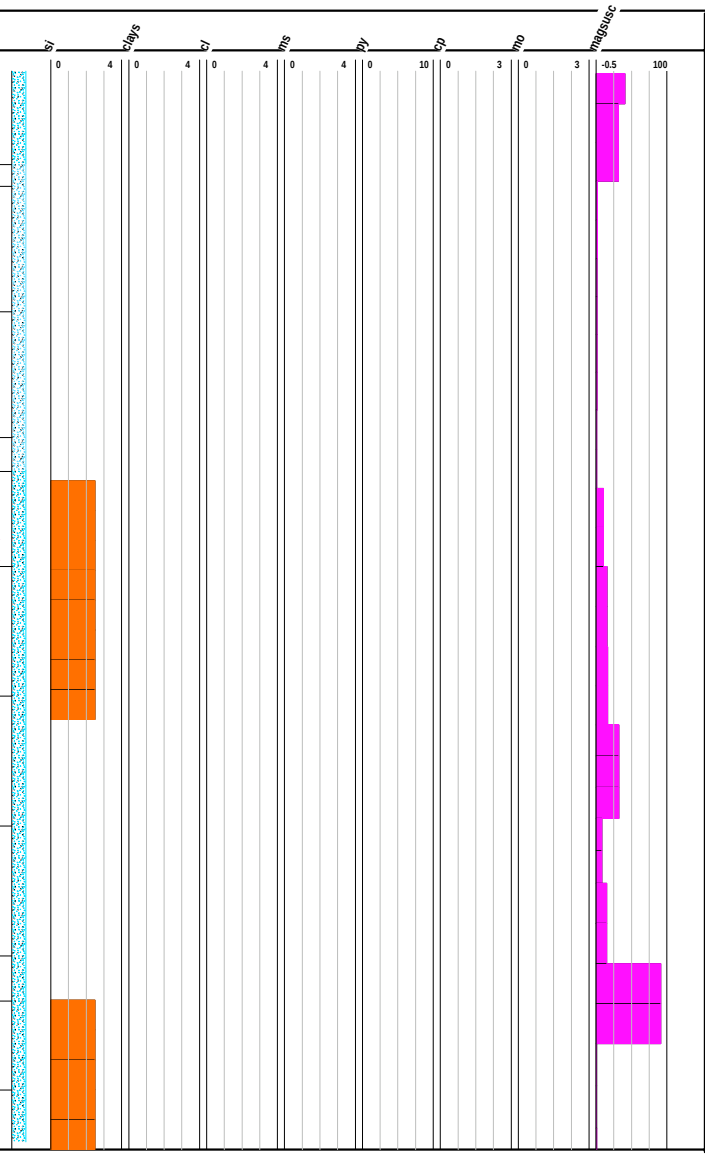
From	To	Rocktype	& Description
0.00	18.30	CASN	CASING
18.30	28.00	JB2	ANDESITE LAPILLI TUFF: Medium to light green. Patchy colour due to patchy epidote alteration. Heterolithic fragments up to 6cm. Relatively competent core, few stringers. Basal contact marked at fine ash layer. < @ 28.00 Bedding 60° > « 18.30- 28.00 epidote 2.50»
28.00	44.10	JB1	ANDESITE: Variably coloured from light green to dark purple-grey. Colour variation due to alteration. Gritty appearance in part so unit could possibly be a tuff? Relatively consistent medium grained. Numerous zeolite and calcite stringers less than 3mm, at varying angles TCA. Minor biotite after pyroxene? Dark alteration commonly hematite. « 28.00- 32.70 epidote 3.00» « 32.70- 36.70 epidote 2.00» « he 2.00» « magnetite 2.00» « 36.70- 44.10 he 2.50» « magnetite 2.50»



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Project: Hushamu05 **Hole Number:** R 023

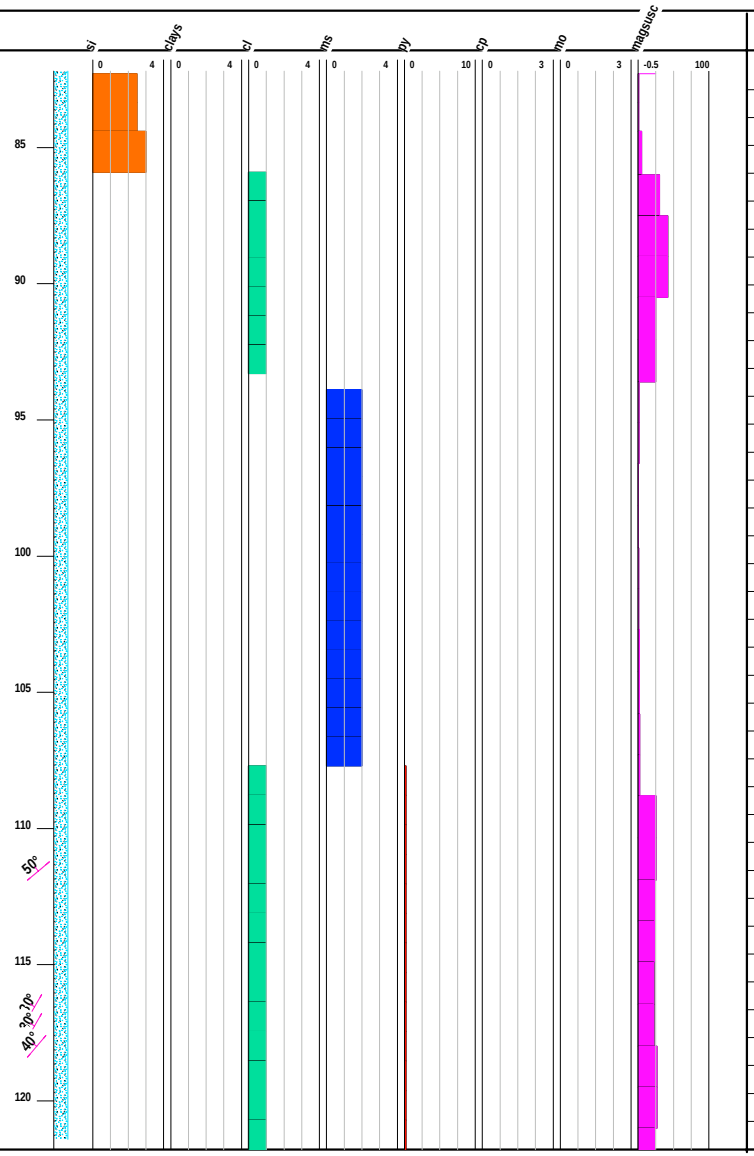
From	To	Rocktype & Description
44.10	56.30	JB2
		ANDESITE LAPILLI TUFF: Medium to light green. Mottled epidote alteration. Top of interval with coarse lapilli up to 4 cm., fining down interval to coarse ash tuff. Bedding in fine ash tuff beds. Relatively competent core. All non-magnetic.
		« epidote 2.00»
		< @ 44.40 Bedding 55° >
		< @ 47.50 Bedding 50° >
56.30	76.70	JB1
		ANDESITE: Similar to unit 28.00-44.10 m. Variably coloured med.- light green to med-dark purple-grey. Hematite alteration commonly localized to narrow intervals. Fine grained to gritty appearance. Possibly tuff in part. Quartz veins with strongly silicified margins. Numerous zeolite and calcite stringers.
		« 56.30- 56.60 Flow top breccia »
		« 56.70- 65.90 si 2.50» Quartz stringer zone and moderate to strong silicification
		< @ 59.90 quartz vein. 3 cm 30° > minor amethyst
		< @ 60.70 Quartz vein, 3 cm 30° >
		< @ 64.90 Quartz vein, 6 cm 25° > minor calcite and zeolite
		< @ 68.00 Quartz vein,4 cm 25° > minor amethyst
76.70	137.10	JB1
		ANDESITE: Light pastel green, to medium green-grey to medium- dark grey. Medium to coarse grained. Fragmental in appearance near the top of the interval, possibly flow top breccia? or structural? Top of interval with crackle breccia mm scale stringers. Colour variation due to alteration. Feldspar porphyritic throughout. Numerous calcite, quartz-calcite stringers.



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
56.70	60.00	3.30	336410	0.010	50.0	-10.00
60.00	63.10	3.10	336411	-0.010	40.0	-10.00
63.10	65.90	2.80	336412	-0.010	30.0	-10.00
110.20	111.90	1.70	336414	-0.010	40.0	-10.00
111.90	114.90	3.00	336416	0.050	40.0	-10.00
114.90	118.00	3.10	336417	0.010	40.0	-10.00

Project: Hushamu05 **Hole Number:** R 023

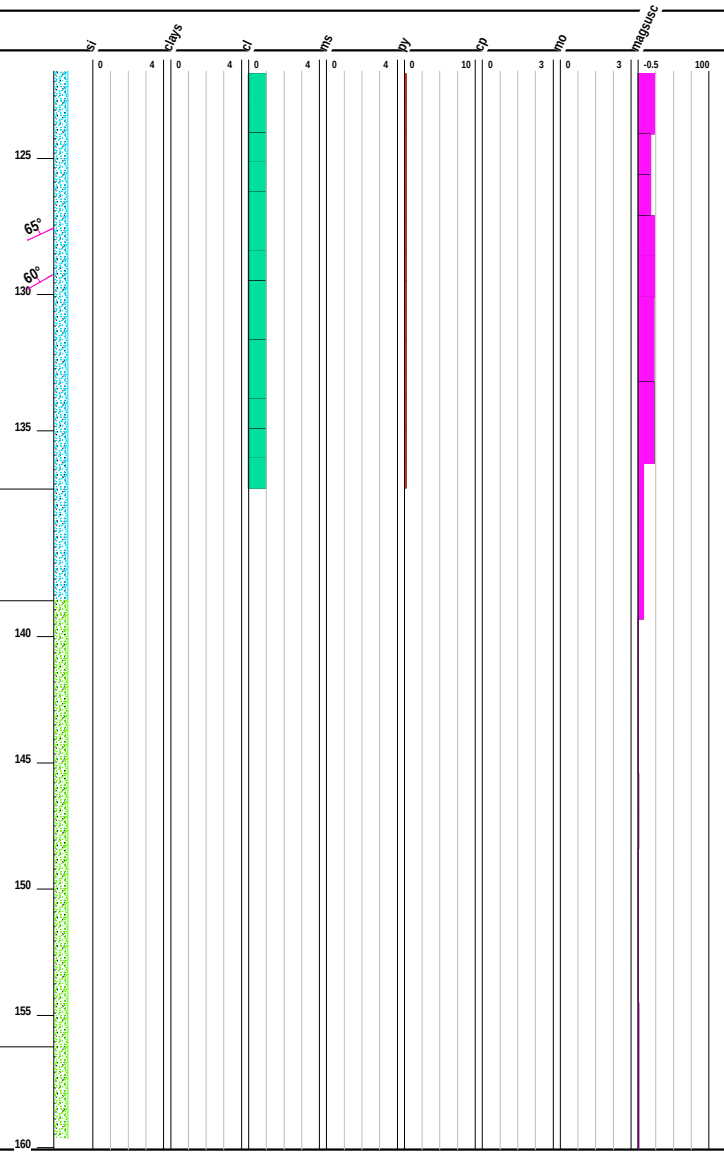
From	To	Rocktype & Description
		Minor Zeolite stringers.
		« 76.70- 84.40 epidote 3.00» « si 2.50» , non-magnetic
		« 84.40- 85.90 si 3.00 », non magnetic
		« 85.90- 93.30 quartz carbonate vein 40°», «cl 1.00 » strong magnetic
		« 93.90- 107.70 epidote 2.00» Pale green, epidote sericite, non magnetic
		« 93.90- 107.70 ms 2.00»
		« 107.70- 137.10 cl 1.00» Medium to dark green grey weakly chloritic moderately magnetic, trace pyrite, « 107.70- 137.10 pyrite 0.20%»
		« strong quartz carbonate stringering at 25 to 50, commonly 30 ,also as erratic vein network at erratic orientation 30°»
		< @ 99.30 fault 15° >
		< @ 99.40 fault 45° >
		< @ 101.50 fault 30° >
		« 111.30- 111.40 quartz and calcite veins 30°»
		< @ 111.90 quartz calcite vein 50° >
		« 116.00- 116.50 quartz carbonate stringer zone 25°»
		< @ 117.00 quartz carbonate veining 5mm 30° >
		< @ 117.70 calcite 10mm 30° >
		< @ 118.40 quartz calcite 8mm 40° >
		< @ 128.00 Quartz vein crosscutting carbonate 65° >
		< @ 129.80 quartz carbonate 1.5cm 60° >
		« 135.50- 135.70 vein zone with discrete boundaries 75°»
		< @ 135.90 vein breccia calcite 20° >



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Project: Hushamu05 **Hole Number:** R 023

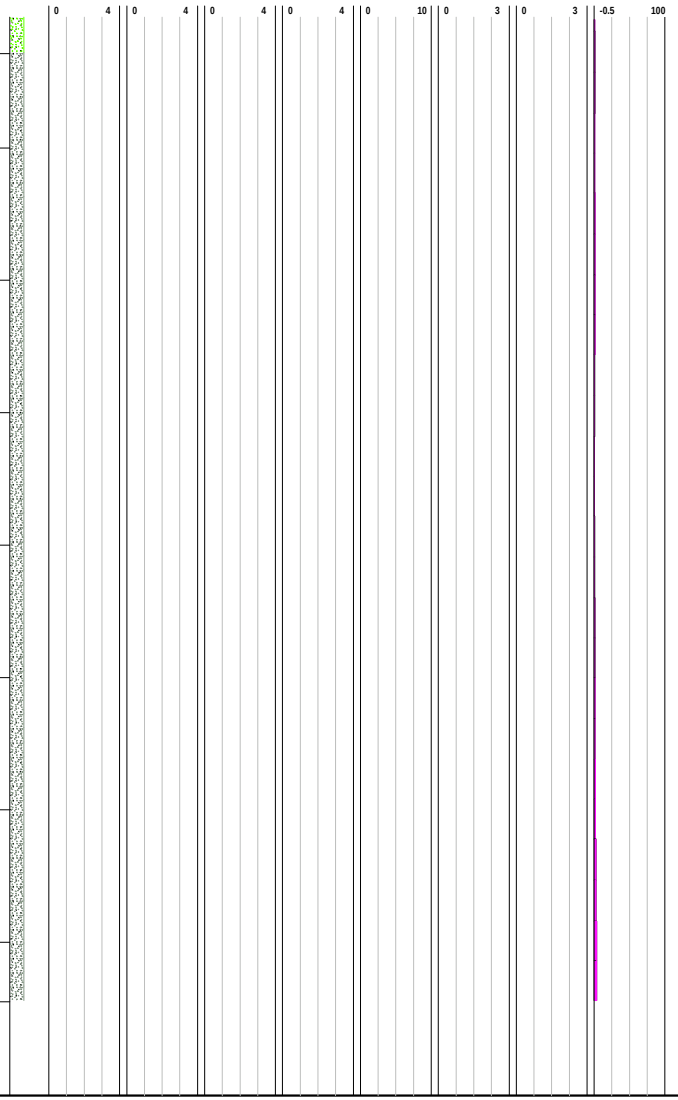
From	To	Rocktype	& Description
137.10	138.53	JB1	ANDESITE: Medium epidote green. Transition zone from underlying felsic rocks to overlying intermediate rock. Very strongly carbonate stringered and weakly brecciated near bottom of interval.« strong epidote »
138.53	156.20	JB4	DACITE LAPILLI TUFF: Light green,coarse fragmental to fine ash tuff. Fragments to 2 cm. Angular to subrounded. Numerous carbonate stringers. Hetrerolithic fragments. « 138.53- 143.50 fragments to 2cm DCLT » « 143.50- 145.20 Very fine grained , pastel green ash tuff. Becoming fragmental near base. DCAT » « Pale, coarse grained heterolithic. Angular to subrounded fragments. DCLT » < @ 156.20 contact 50° > basal contact with ash tuff
156.20	161.40	JB4	DACITE TO ANDESITE FINE ASH TUFF: Light to medium green, very fine grained. Minor coarse ash to lapilli intervals. Weak erratic epidote alteration. « epidote 1.00»



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Project: Hushamu05 **Hole Number:** R 023

From	To	Rocktype & Description
		< @ 159.80 Bedding 60° > Basal contact broken core.
161.40	197.20	JB6
		GREYWACKE: Medium grey green. Coarse to very coarse grained with conglomerate intervals. Heterolithic composition. Dominantly epiclastic. Tuff and volcanic fragments. Fragments are sub rounded to angular. Complete interval is nonmagnetic. Strongly calcite stringered from 170.0 to 184.5.
		« 165.20- 197.20 ca 2.00 », Calcite veining and moderate calcite alteration.
		< @ 168.30 bedding 50° >
		< @ 169.40 Bedding 50° >
		« 172.70- 173.70 Calcite vein breccia. hanging wall 40tca 40°»
		< @ 173.90 1cm calcite 25° >
		< @ 174.10 1.5 cm calcite 30° >
		< @ 174.20 1 cm calcite 30° >
		« 176.70- 178.50 Erratic calcite veining some sub parallel tca »
		< @ 183.6 1 cm calcite 20° >
		< @ 184.00 calcite veining and stringers 25° >
		< @ 191.30 1 cm calcite 25° >
		< @ 195.20 1 cm calcite 30° >
197.20	197.20	EOH



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Drill Log Legend


ANDS

ANLT

CASN


FLBX


FLTG


JB1


JB2


JB4


JB5


JB6


JBa1


JBa2


JBa3


JBa4


JBa5


JBa6


JI1


JI2


JI3


JI4


OVBN


Rubble


Ti


bedding


fault


fault beccia


fault breccia


fault gouge


vein


veinlet

DRILL LOG

Project: Rupert	**Collar Elevation (m):** 33.0
Hole R 024	**Azimuth (º):** 360
Location: 5605684 m North, 615417 m East	**Dip (º):** -90.0
Logged by: J. Lehtinen	**Length (m):** 33.50
Drilled by: Driftwood Drilling	**Horizontal Projection:**
Assayed by: ALS Chemex-Vancouver	**Vertical Projection:**
Core Size: NQ	
Date Started: 2005/11/18 **Date Completed:** 2005/11/19	
Dip Tests By: none	
Objective	

Summary Log:

0.0 to 27.4: CASING

EOH = 27.4, casing lost in hole, abondoned.

DRILL LOG

Project: Rupert	**Collar Elevation (m):** 33.0
Hole R 025	**Azimuth (º):** 360
Location: 5605684 m North, 615417 m East	**Dip (º):** -90.0
Logged by: J. Lehtinen	**Length (m):** 38.70
Drilled by: Driftwood Drilling	**Horizontal Projection:**
Assayed by: ALS Chemex-Vancouver	**Vertical Projection:**
Core Size: NQ	
Date Started: 2005/11/19 **Date Completed:** 2005/11/20	
Dip Tests By: none	
Objective	

Summary Log:

0.0 to 38.7: CASING

EOH = 38.7, hole abondoned at bedrock interface due to high pressure aquifer, rods twisted off.

DRILL LOG

Project: Rupert	**Collar Elevation (m):** 16.0
Hole R 026	**Azimuth (º):** 360
Location: 5605425 m North, 614846 m East	**Dip (º):** -90.0
Logged by: J.Lehtinen	**Length (m):** 151.50
Drilled by: Driftwood Drilling	**Horizontal Projection:**
Assayed by: ALS Chemex-Vancouver	**Vertical Projection:**
Core Size: NQ	
Date Started: 2005/11/20 **Date Completed:** 2005/11/23	
Dip Tests By: none	
Objective	

Summary Log:

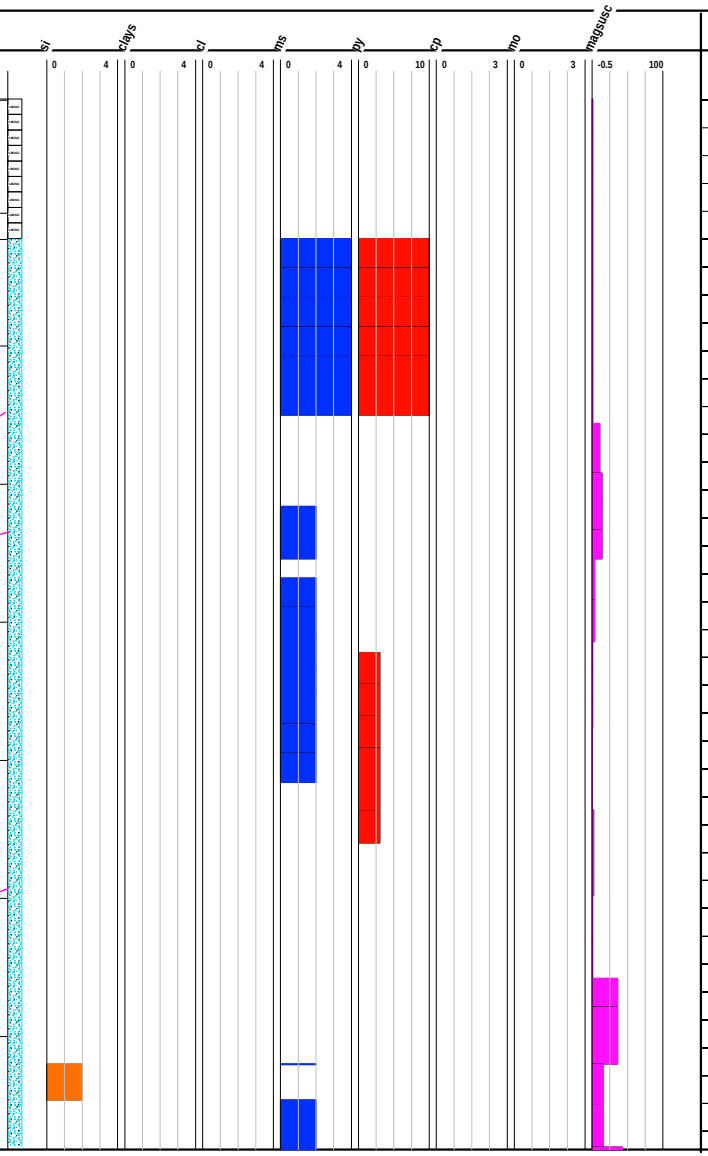
0.0 to 6.1: CASING

6.1 TO 151.5: ANDESITE (JB1): variably sericite-pyrite altered massive to fragmental volcanic rock

EOH = 151.50

Project: Hushamu05 **Hole Number:** R 026

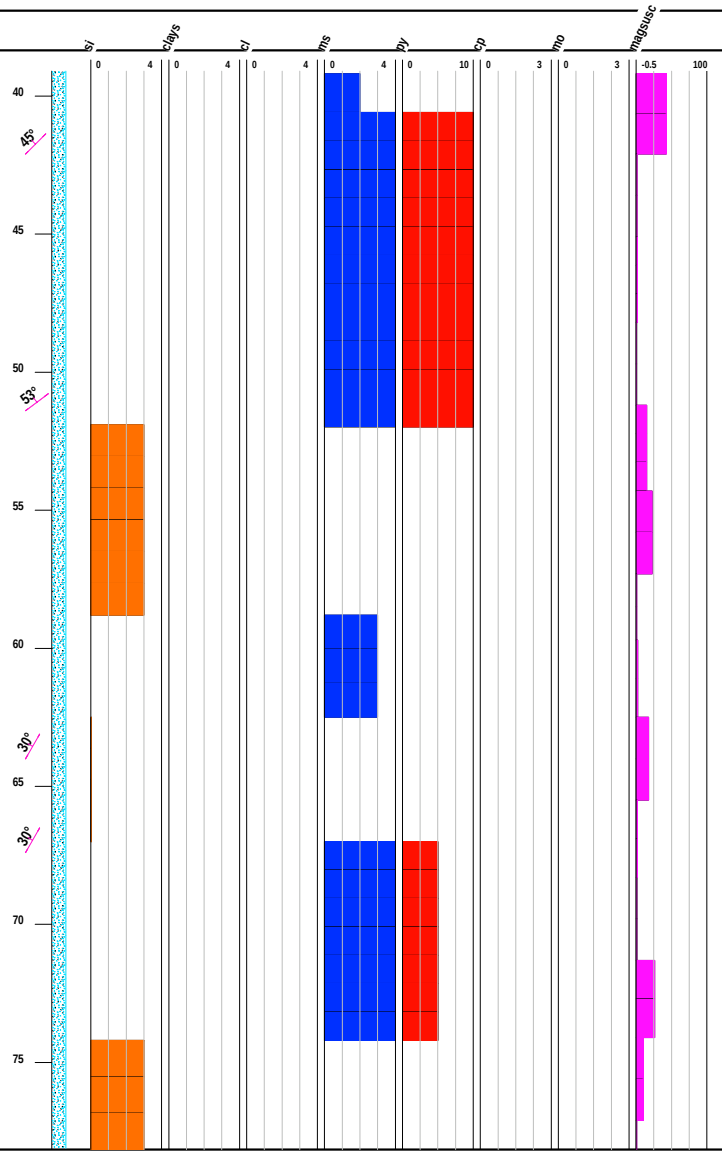
From	To	Rocktype	& Description
0.00	6.10	CASN	CASING
6.10	151.50	JB1	ANDESITE: Complete interval is composed of variably altered, fine grained andesite (?) protolith. Divisions of sub-intervals are all based on alteration. Zones of weak to moderately magnetic, fine grained dark green volcanic with hydrothermal magnetite. The magnetite zones have been later, partially altered to sericite pyrite and have commonly been faulted along these weaker competent zones and are commonly veined with late calcite and quartz-calcite-pyrite stringers and veins less than 2cm width. Minor intervals with lapilli fragments, or feldspar porphyritic. « 6.10- 12.50 sericite 4« euhedral coarse grained pyrite 10%»< @ 8.80 1cm pyrite vein 40° >» « 10.60- 11.10 strongly fractured quartz pyrite veining »< @ 11.30 clay, sericite,pyrite Fault gouge > « 12.50- 40.60 interlayered magnetite and sericite,pyrite magnetite alteration zones »< @ 13.00 pyrite stringer 55° 1cm >< @ 14.00 calcite 35° 1cm >< @ 16.40 fault gouge > « 15.20- 15.80 magnetite 2» « 15.80- 17.70 with carbonate,quartz stringers sericite 2» < @ 16.60 gouge 2cm >< @ 17.00 quartz calcite vein 75° 1cm > « 17.70- 18.40 magnetite 3» « 18.40- 25.80 carbonate, quartz stringered sericite 2»< @ 19.30 clay,pyrite gouge 5cm > « 21.10- 28.00 pyrite 3-5» « 23.90- 25.70 quartz calcite veining 30° 5mm» « 22.20- 22.70 calcite veining and clay gouge gouge,vein »< @ 27.50 20 cm stringer zone quartz calcite veining 25° > « 29.40- 33.10 strong pyrite, calcite stringer zone 30°»< @ 30.00 Quartz,pyrite vein 70° 3cm >< @ 31.50 fault gouge > « 33.10- 33.60 magnetite 3» « 36.00- 36.00 calcite pyrite stringers sericite,minor magnetite intervals 2-1» « 33.00- 41.50 ANLT »« silica 2»



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
6.10	7.90	1.80	336418	-0.010	100.0	10.00
7.90	11.00	3.10	336419	-0.010	40.0	10.00
11.00	12.50	1.50	336420	0.010	20.0	30.00
12.50	14.60	2.10	336421	-0.010	70.0	-10.00
14.60	17.70	3.10	336422	-0.010	80.0	-10.00
17.70	20.70	3.00	336423	-0.010	740.0	-10.00
20.70	23.80	3.10	336425	-0.010	120.0	-10.00
23.80	26.80	3.00	336426	-0.010	90.0	-10.00
26.80	29.90	3.10	336427	-0.010	90.0	-10.00
29.90	33.10	3.20	336428	-0.010	40.0	-10.00
33.10	33.50	0.40	336429	-0.010	90.0	-10.00
33.50	36.00	2.50	336430	0.010	70.0	-10.00
36.00	37.30	1.30	336431	-0.010	30.0	-10.00
37.30	38.40	1.10	336432	-0.010	20.0	-10.00
38.40	40.60	2.20	336433	0.010	30.0	-10.00
40.60	42.10	1.50	336434	0.010	70.0	10.00
42.10	45.10	3.00	336435	0.010	10.0	10.00
45.10	48.20	3.10	336436	0.010	80.0	10.00
48.20	51.20	3.00	336438	-0.010	30.0	10.00
51.20	54.30	3.10	336439	0.010	80.0	-10.00
64.30	67.00	2.70	336440	-0.010	50.0	-10.00
67.00	69.60	2.60	336441	0.010	100.0	10.00
74.10	77.10	3.00	336442	-0.010	70.0	-10.00
81.40	82.90	1.50	336443	0.010	40.0	-10.00
102.70	105.80	3.10	336446	-0.010	20.0	-10.00
105.80	108.80	3.00	336447	0.010	90.0	-10.00
108.80	111.90	3.10	336448	0.010	60.0	-10.00
124.10	127.10	3.00	336449	0.010	90.0	-10.00
127.10	130.10	3.00	336450	0.020	280.0	30.00
130.10	133.20	3.10	336451	0.010	40.0	10.00
133.20	136.20	3.00	336452	-0.010	50.0	10.00
136.20	139.30	3.10	336453	0.010	40.0	20.00
139.30	142.30	3.00	336454	0.010	40.0	-10.00

Project: Hushamu05 **Hole Number:** R 026

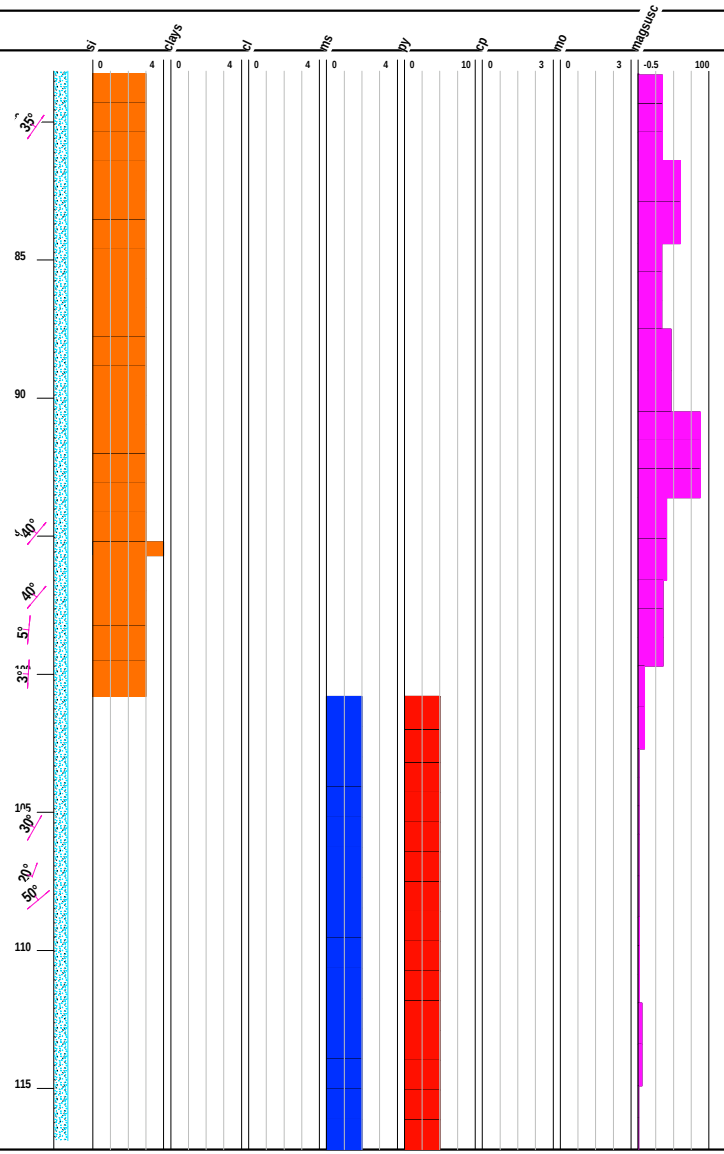
From	To	Rocktype & Description
« 37.30- 40.60 narrow alteration interbeds to30cm Magnetite, sericite pyrite 2»		
« 40.60- 51.99 strongly fractured ,pyritic Sericite 4« fracture fill and veinlets Pyrite 10-5%»»< @ 42.10 quartz pyrite vein 45° 3cm >< @ 51.40 pyrite vein 53° 2cm >		
« 51.90- 58.80 Variable magnetite minor sericite zones silica, magnetite 3»		
« 58.80- 62.50 calcite veinig erratic Sericite 3»		
« 62.50- 67.00 Minor calcite variable silica, magnetite,minor sericite »< @ 64.00 quartz calcite vein 30° 5cm >		
« 67.00- 74.20 minor silica Agglomeratic Lapilli Tuff parallel to veins Sericite 4»< @ 67.40 pyrite quartz, late calcite pyrite40 Vein 30° 10cm >« veins,fracture fill, disseminated Pyrite 5%»		
« Silica 3»« highly variable magnetite 2»« variable orientation zeolite stringers »< @ 80.60 Zeolite vein 35° 1cm >< @ 95.30 zeolite vein 40° 15mm >< @ 97.60 quartrz vein 40° 3cm >< @ 98.90 zeolite vein 5° 3cm >		
« 74.20- 100.80 zeolite veins,minor sericite pyrite intervals silica, magnetite 3»< @ 80.60 zeolite vein 35° 4cm >		
« 88.20- 88.50 fault gouge,pyrite sericite 35°»< @ 95.30 zeolite 40° 2cm >		
« 95.20- 95.70 pale, bleached colour silica 4»< @ 97.60 quartz,lesser zeolite 0ver30cm vein 40° 20cm >< @ 100.50 zeolite and fracture vein/fracture 3° 2cm >		
« 100.80- 127.10 sericite variable,minor magnetite sericite 2-3»< @ 106.00 fracture foliation/stringers pyrite veini 30° 2mm >< @ 107.80 quartz vein vein 20° 2cm >< @ 108.50 quartz vein with cp,sp, pyrite vein 50° 7mm >« variable pyrite as disseminations and fracture fill and veins pyrite 5%»		
« 100.80- 103.20 stringer, vein and disseminated pyrite 5-10%»		
« 117.90- 118.30 sericite clay quartz pyrite fault gouge and vein »		
« 118.90- 119.30 quartz clay pyrite fault gouge and vein »		
« 125.60- 126.40 pyrite strigers with minor chlorite veins 3° 1-3mm»		
« 127.10- 130.10 si 3» strong silica and quartz veining, < @ 127.10 quartz vein 40° 7cm >		
« 127.10- 130.10 pyrite 10%» vein,fracture fill,diss		
« 130.10- 150.10 sericite,pyrite weak chlorite minor hematite sericite		



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
142.30	145.40	3.10	336455	0.010	100.0	10.00
145.40	148.50	3.10	336456	0.010	140.0	10.00

Project: Hushamu05 **Hole Number:** R 026

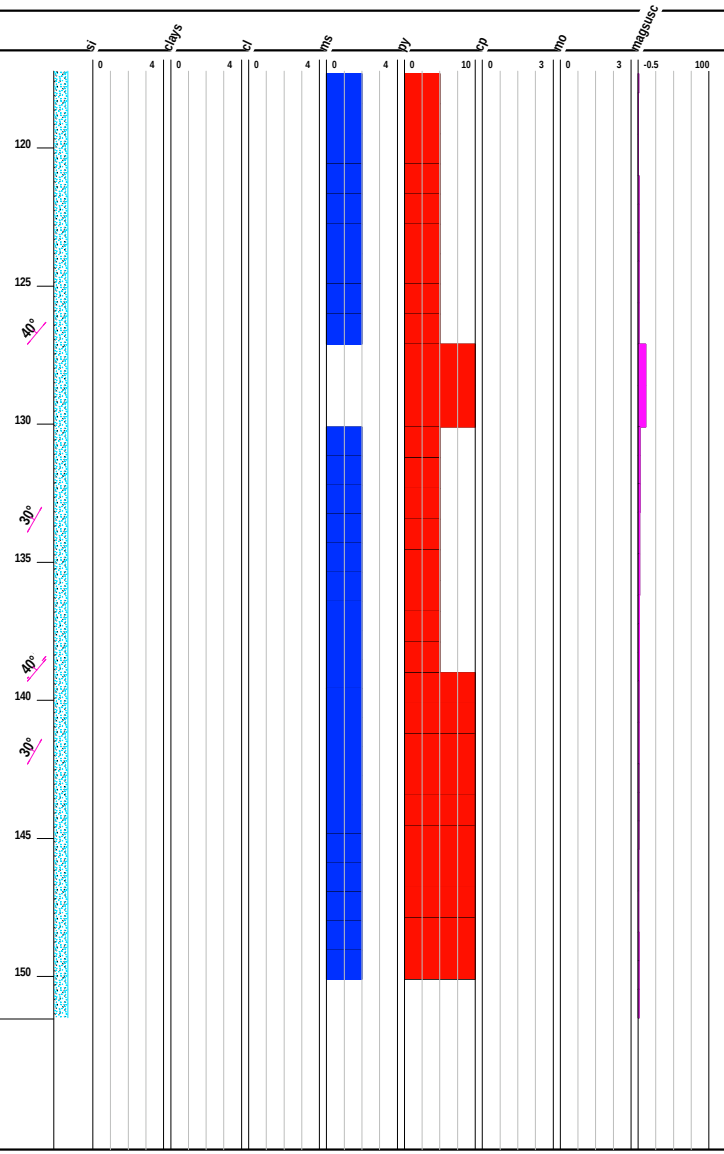
From	To	Rocktype & Description
		2-3» « 133.00- 133.20 magnetite 3» < @ 133.90 pyrite vein 30° 15mm >
		« 130.10- 139.00 fracture fill vein and disseminated pyrite 5%»
		« 135.50- 135.80 rubble and clay fault gouge »
		« 137.60- 139.00 quartz clay and breccia frags fault breccia and veining
		»< @ 139.20 pyrite vein 40° 1cm >
		« 139.00- 150.10 stringered,fracture fill and disseminated pyrite 10%»< @
		139.30 pyrite vein 40° 8mm >< @ 142.30 pyrite veins 30° 3-8mm >
		« 150.10- 151.50 strongly brecciated with clay and minor quartz
		fragments. Sericite altered frags fault breccia »



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Project: Hushamu05 **Hole Number:** R 026

From	To	Rocktype & Description
	151.50	
151.50	151.50	EOH



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Drill Log Legend


ANDS

ANLT

CASN


FLBX


FLTG


JB1


JB2


JB4


JB5


JB6


JBa1


JBa2


JBa3


JBa4


JBa5


JBa6


JI1


JI2


JI3


JI4


OVBN


Rubble


Ti


bedding


fault


fault beccia


fault breccia


fault gouge


vein


veinlet

DRILL LOG

Project: Rupert	**Collar Elevation (m):** 35.0
Hole R 027	**Azimuth (º):** 360
Location: 5604997 m North, 615796 m East	**Dip (º):** -90.0
Logged by: J.Lehtinen	**Length (m):** 139.30
Drilled by: Driftwood Drilling	**Horizontal Projection:**
Assayed by: ALS Chemex-Vancouver	**Vertical Projection:**
Core Size: NQ	
Date Started: 2005/11/23 **Date Completed:** 2005/11/27	
Dip Tests By: none	
Objective	

Summary Log:

0.0 to 64.0: CASING

64.0 to 71.8: ANDESITE LAPILLI TUFF (JB2): medium to light green, fine-grained, common calcite veins, mCL, MS, wEP, CA minor PY

71.8 to 72.2: FAULT GOUGE

72.2 to 76.6: ANDESITE (JB1): pale to dark green, sMS, local MT and HE alteration

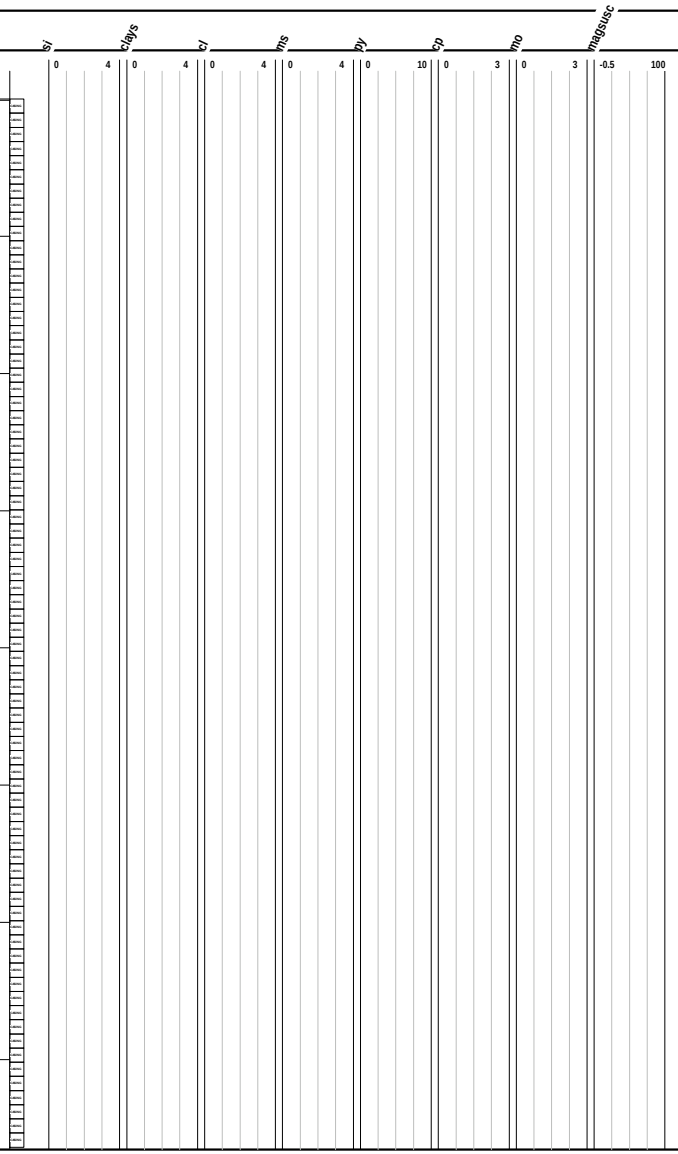
76.6 to 77.3: FAULT GOUGE

77.3 to 139.3: ANDESITE LAPILLI TUFF (JB2): medium green, fine-grained, common calcite and zeolite veins, mCL, wEP, CA minor PY, localized MS alteration

EOH = 139.30

Project: Hushamu05 **Hole Number:** R 027

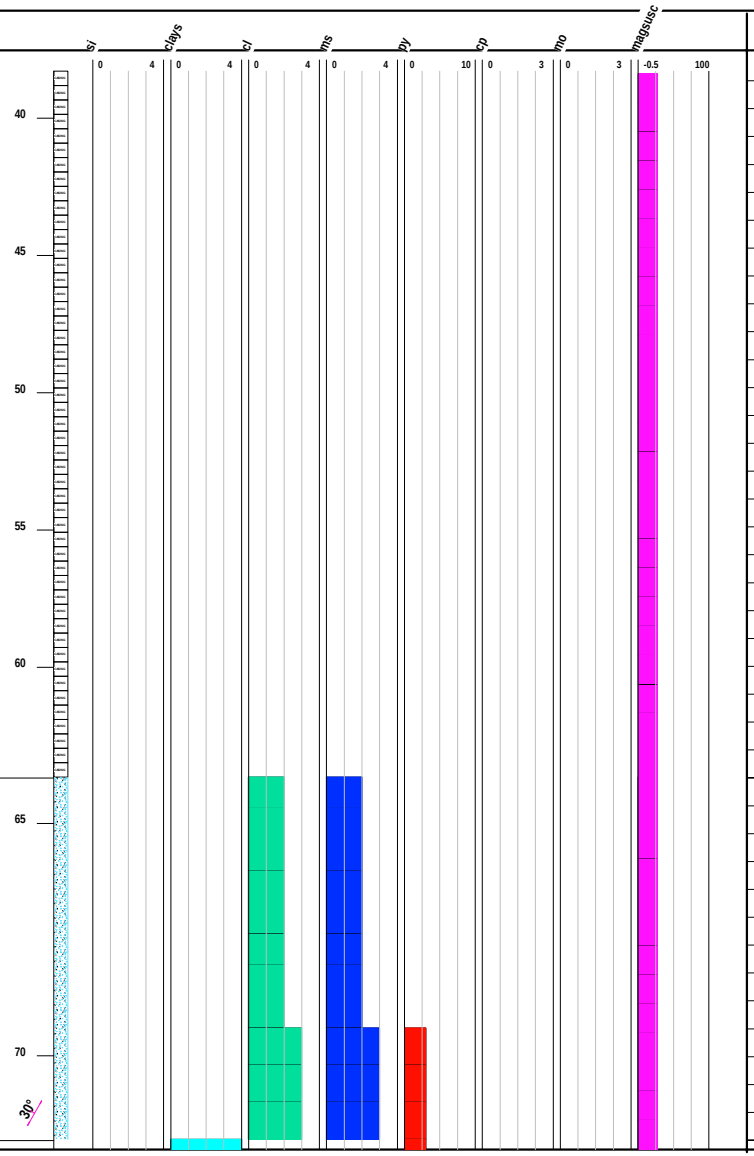
From	To	Rocktype	& Description
0.00	64.00	CASN	CASING



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Project: Hushamu05 **Hole Number:** R 027

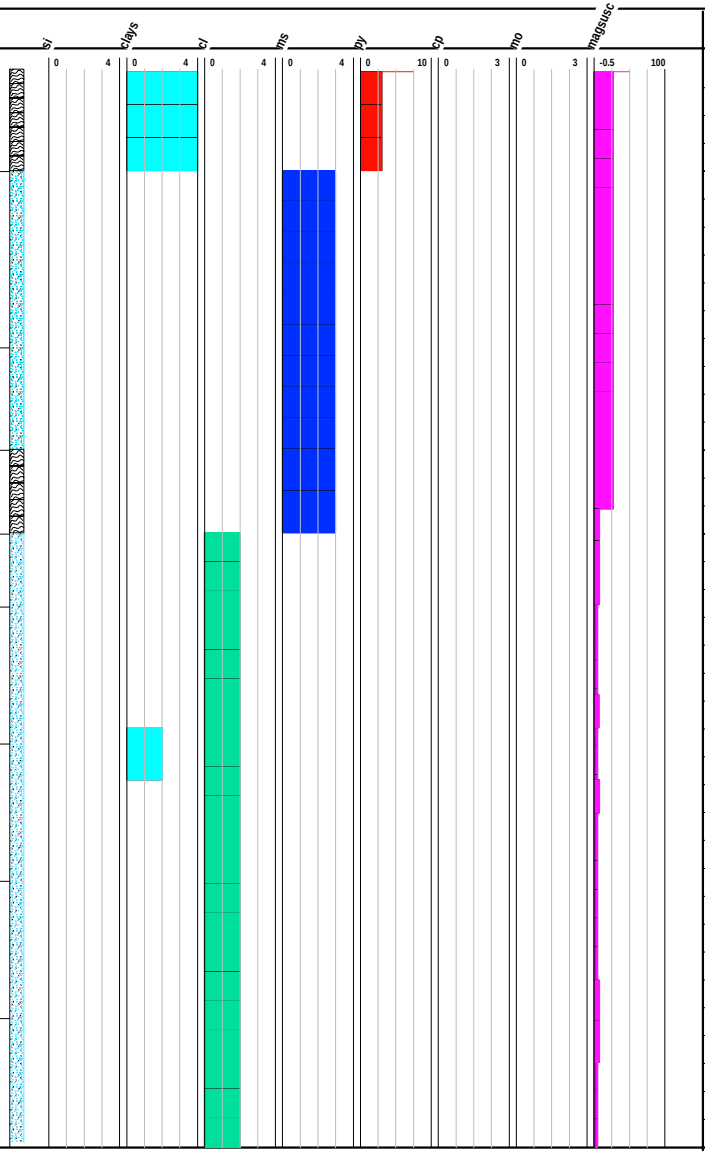
From	To	Rocktype	& Description
64.00	71.80	JB2	ANDESITE LAPILLI TUFF: Medium to light green. Fine grained, minor feldspar phyric fragments. Fine calcite stringers. Minor epidote. « 64.00- 66.00 cl 2.00» « ms 2.00» « epidote 1.00» « ca 1.00» Hematite chlorite patchy alteration in lapilli fragmental. « 66.66- 69.40 he 2.00» 69.40 to 71.80: Medium green, sericite, chlorite altered lapilli tuff strongly fracture with pyrite infill. Bleached interval near bottom. « 69.40- 71.80 cl 3.00» « ms 3.00» « pyrite 3.00%» < @ 71.50 calcite pyrite stringer 30° 4mm >
71.80	72.20	FLTG	



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Project: Hushamu05 **Hole Number:** R 027

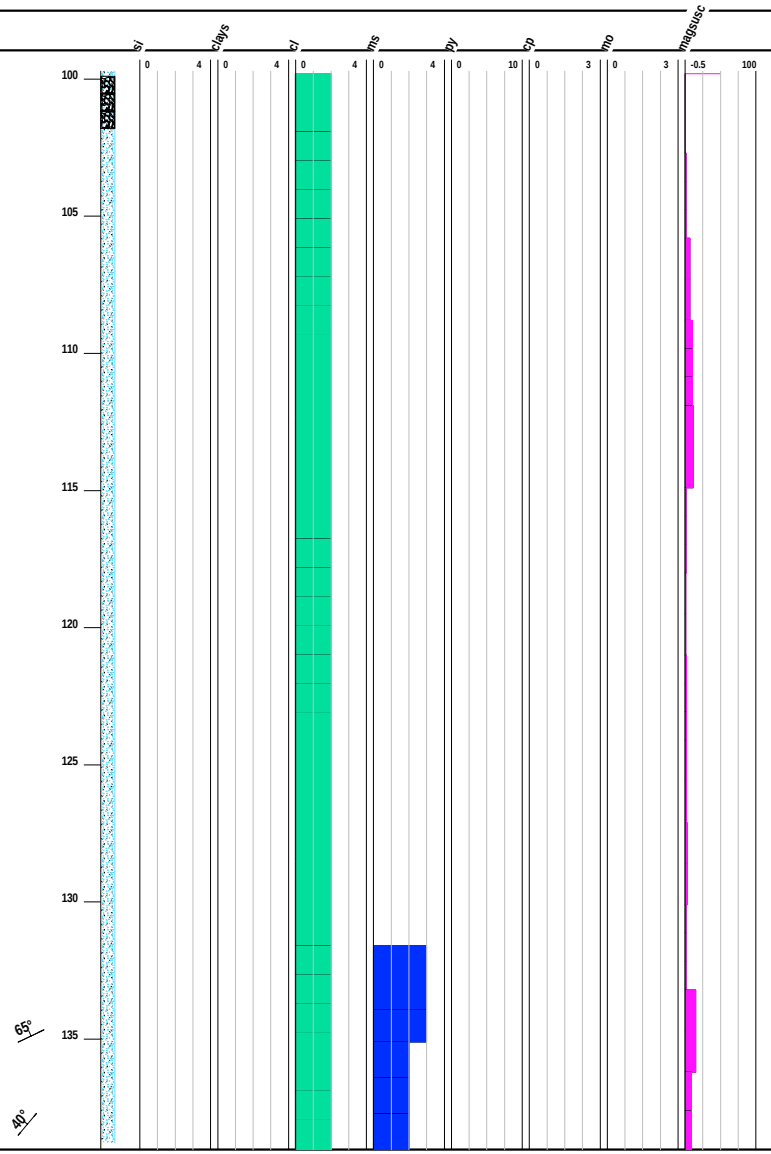
From	To	Rocktype	& Description
			FAULT GOUGE: Clayey gouge zone with pyrite stringering at HW. « pyrite 3.00%» « cy 4.00»
			< @ 72.20 fault 70° >
72.20	74.40	JB1	Pale green, sericite altered. andesite? Late calcite stringering. Minor chlorite alteration.
			« 72.20- 76.60 ms 3.00»
			< @ 73.30 clay fault gouge 90° 6cm >
			74.40 to 76.60: Dark grey-green, fine grained. Broken core. Magnetic. Gradational basal contact.
			« 74.40- 76.60 magnetite 3.00» « he 3.00»
76.60	77.30	FLTG	Vein/weak fault zone . Minor quartz and carbonate. Moderately broken. Pale coloured, bleached, sericite. « ms 3.00» « cb 2.00»
77.30	139.30	JB2	ANDESITE TUFF: mixed package of massive, ash, lapilli tuff. Medium green, « cl 2.00» « ca 1.00» « ze 1.00» « he 1.00» . Common calcite and zeolite stringer veins. Generally moderately magnetic.
			« 83.20- 83.90 magnetite 3.00» Hydrothermal? magnetite
			« 84.40- 86.30 cy 2.00» < @ 86.30 magnetite band 3 >
			90.50 to 96.40: Hematite and fault rubble. Clay gouge, rubble. Light to medium maroon.< @ 94.20 fault plane, slickensides 20° >
			« 99.90- 101.80 FLBX » Very strong clay gouge and breccia zone. contacts within fault at 50TCA.< @ 101.80 50° >
			113.60 to 131.60: Medium green, medium grained ash tuff. Fragment subangular to crystal, commonly in a vfg ash matrix. grey mottled alteration possily reflecting some primary features related to bedding and fragment size. Minor magnetic interval from 129.0-130.0m. Basal 30c.m with minor hematite
			131.60 to 135.10: Light blue green blocky to lapilli tuff. Large angular blocks to 6cm. with minor alteration rims Fragments predominantly tufaaceous and flow fragments. Very sharp basal contact. « 131.60- 135.10 ms 3.00» < @



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Project: Hushamu05 **Hole Number:** R 027

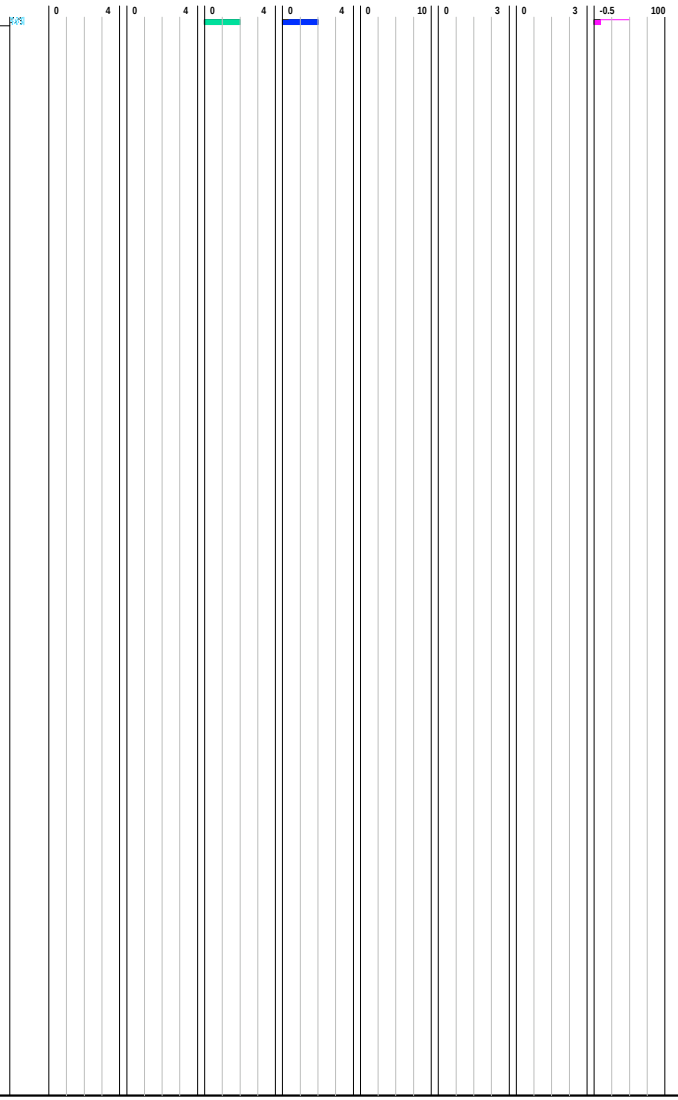
From	To	Rocktype & Description
		135.10 bedding 65° >
		Medium green. Very fine grained ash tuff. All sericite altered. Minor magnetite alteration zone.
		« 135.10- 139.30 magnetite 1.00» « ms 2.00» < @ 138.50 bedding 40° >



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Project: Hushamu05 **Hole Number:** R 027

From	To	Rocktype & Description
139.30	139.30	EOH



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Drill Log Legend


ANDS

ANLT

CASN


FLBX


FLTG


JB1


JB2


JB4


JB5


JB6


JBa1


JBa2


JBa3


JBa4


JBa5


JBa6


JI1


JI2


JI3


JI4


OVBN


Rubble


Ti


bedding


fault


fault beccia


fault breccia


fault gouge


vein


veinlet

DRILL LOG

Project: Rupert	**Collar Elevation (m):** 42.0
Hole R 028	**Azimuth (º):** 360
Location: 5605412 m North, 616330 m East	**Dip (º):** -90.0
Logged by: J.Lehtinen	**Length (m):** 66.40
Drilled by: Driftwood Drilling	**Horizontal Projection:**
Assayed by: ALS Chemex-Vancouver	**Vertical Projection:**
Core Size: NQ	
Date Started: 2005/11/28 **Date Completed:** 2005/12/04	
Dip Tests By: none	
Objective	

Summary Log:

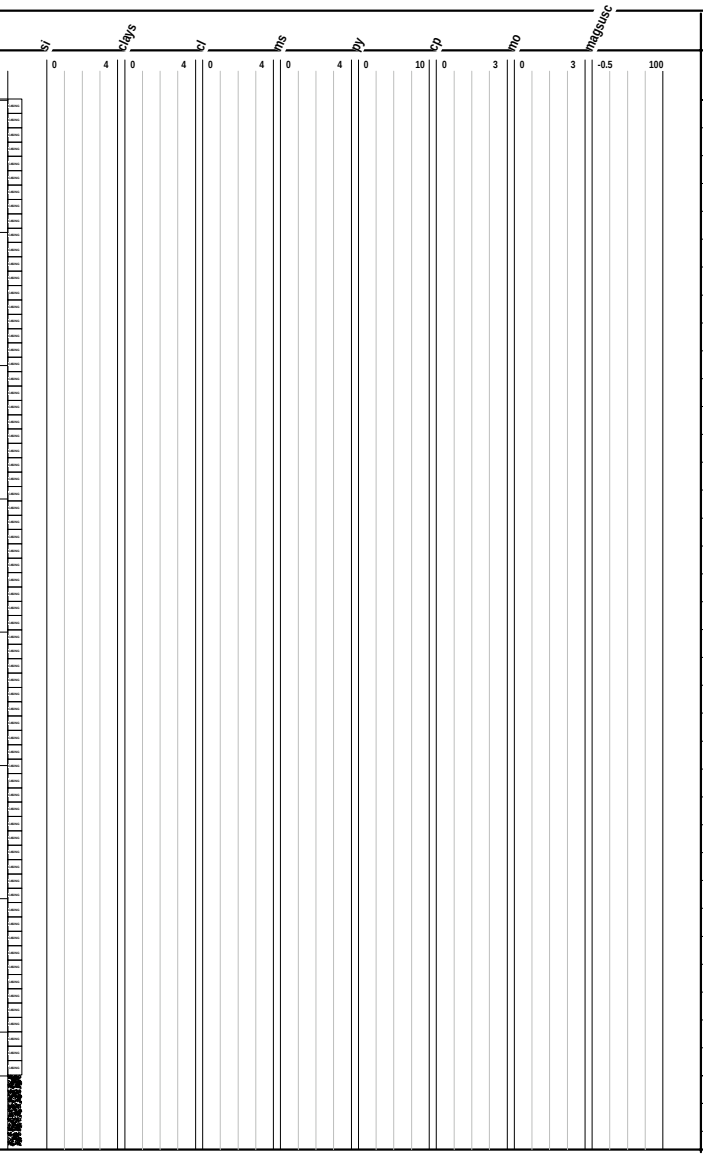
0.0 to 59.9: CASING

59.9 to 66.4: ANDESITE VOLCANIC ROCK (JB1): light to medium grey green, sSI, w MS, 2% PY

EOH = 66.40, casing twisted off, hole lost.

Project: Hushamu05 **Hole Number:** R 028

From	To	Rocktype	& Description
0.00	36.60	CASN	CASING
36.60	56.90	OVBN	casing rubble. Clay and pebbles. Dominantly dark green volcanic pebbles.



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
59.50	60.70	1.20	336457	0.150	45.0	0.90

Project: Hushamu05 **Hole Number:** R 028

From	To	Rocktype	& Description
59.90	66.40	JB1	

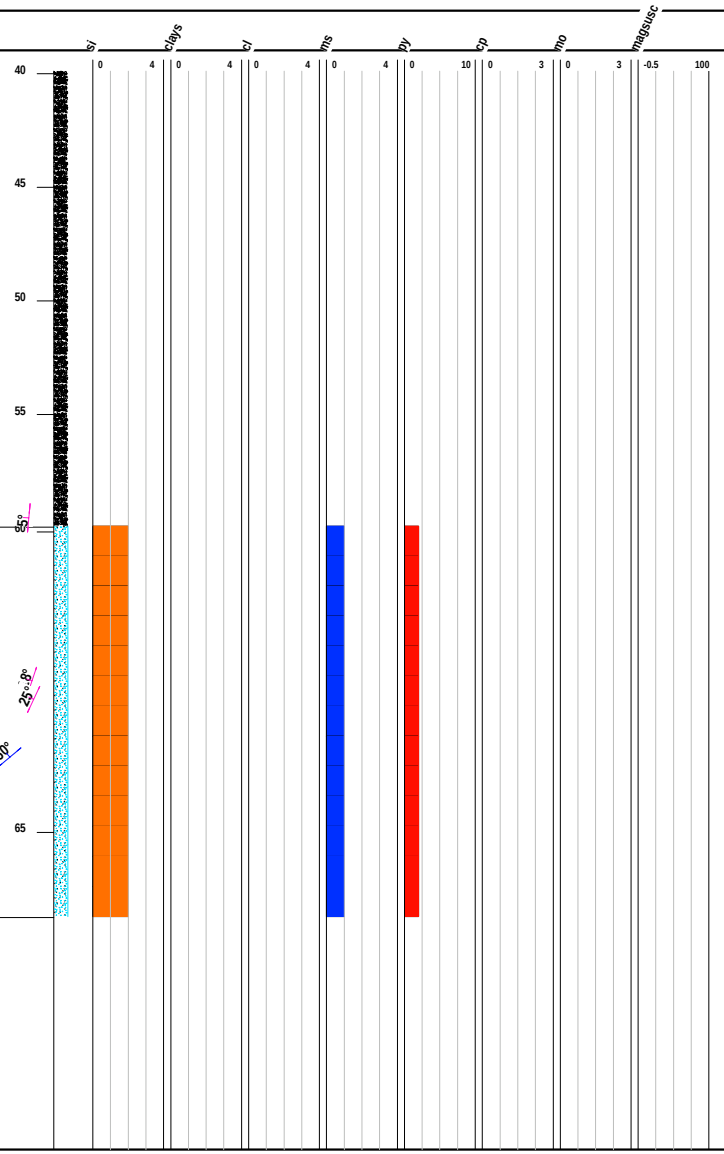
ANDESITE VOLCANIC? Complete interval light to medium grey to green grey.
Grainey appearance due to strong alteration. Quartz stringered.

« 59.90- 66.40 si 2.00» « ms 1.00» « pyrite 2.00%»

< @ 60.00 pyrite stringers 5° 2mm >
< @ 62.70 quartz pyrite stringer 18° 3mm >
< @ 63.00 quartz minor calcite vein 25° 3cm >
< @ 63.90 50° 1cm >, sericite and fault slip zone

PIMA sample:
R028-61.3 smectite, chlorite, kaolinite, zeolite

66.40	66.40	EOH	



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
60.70	63.10	2.40	336459	0.320	47.0	2.20
63.10	64.90	1.80	336460	0.010	13.0	2.70
64.90	66.40	1.50	336461	-0.010	6.0	4.00

Drill Log Legend


ANDS

ANLT

CASN


FLBX


FLTG


JB1


JB2


JB4


JB5


JB6


JBa1


JBa2


JBa3


JBa4


JBa5


JBa6


JI1


JI2


JI3


JI4


OVBN


Rubble


Ti


bedding


fault


fault beccia


fault breccia


fault gouge


vein


veinlet

DRILL LOG

Project: Rupert	**Collar Elevation (m):** 47.0
Hole R 029	**Azimuth (º):** 360
Location: 5605399 m North, 616389 m East	**Dip (º):** -90.0
Logged by: J.Lehtinen	**Length (m):** 134.40
Drilled by: Driftwood Drilling	**Horizontal Projection:**
Assayed by: ALS Chemex-Vancouver	**Vertical Projection:**
Core Size: NQ	
Date Started: 2005/12/04 **Date Completed:** 2005/12/08	
Dip Tests By: none	
Objective	

Summary Log:

0.0 to 54.9: CASING

54.9 to 90.7: ANDESITE LAPILLI TUFF (JB2): dark grey-black with minor lighter sericitized zones, mSI, sMT alteration, 5% PY throughout

90.7 to 105.5: ANDESITE (JB1): dark green to black, variably stringered with quartz, magnetite in dark intervals

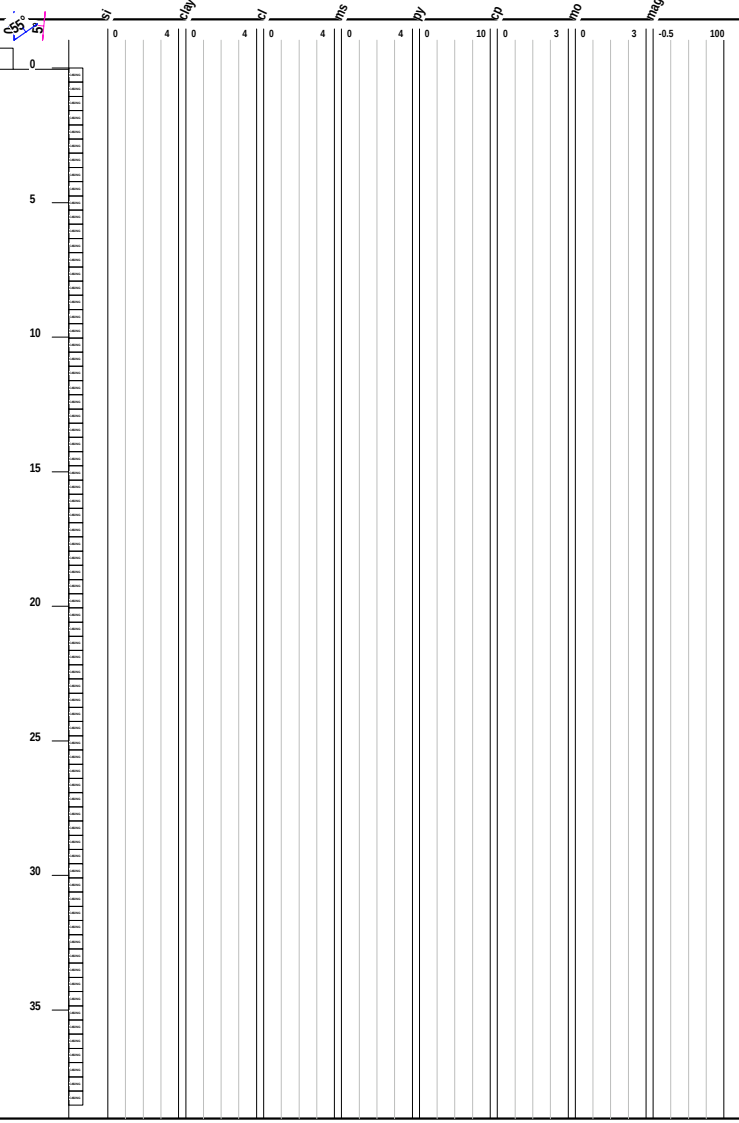
105.5 to 110.0: FAULT BRECCIA

110.0 to 134.4: ANDESITE (JB1): medium green, mHE, SI, MS altered, possible BI alteration, 3% PY

EOH = 134.40

Project: Hushamu05 **Hole Number:** R 029

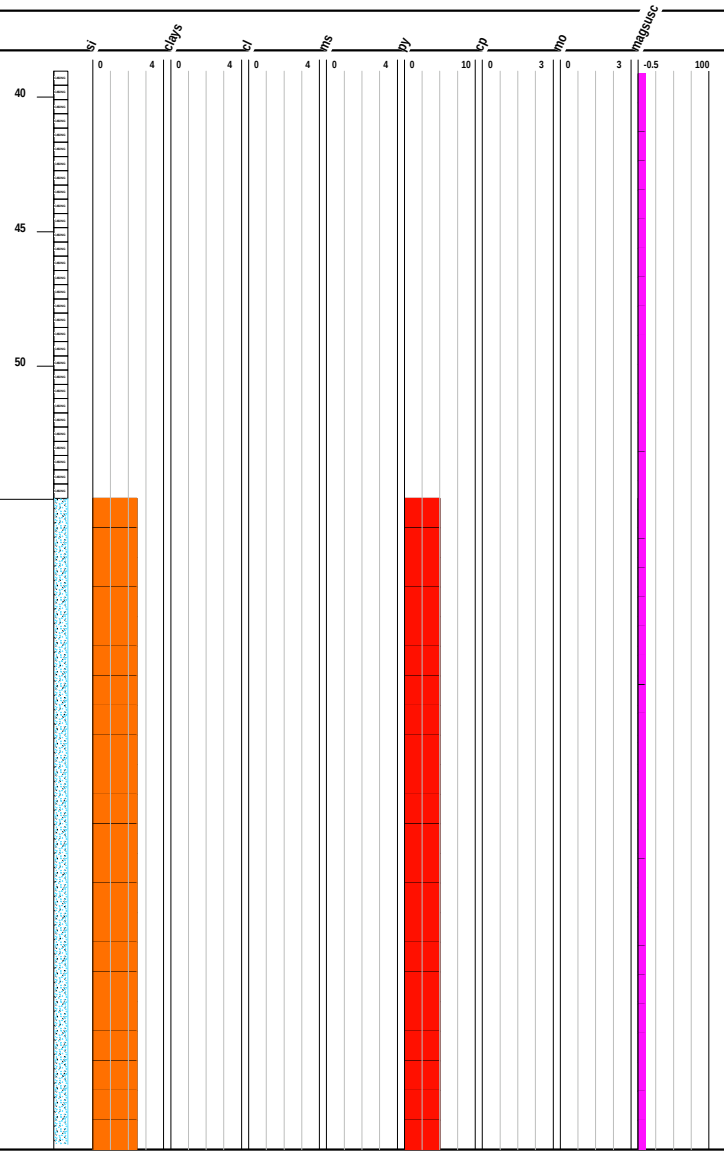
From	To	Rocktype & Description
0.00	54.90	CASN
		CASING



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Project: Hushamu05 **Hole Number:** R 029

From	To	Rocktype & Description
54.90	90.70	JB2



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
54.90	57.00	2.10	336462	0.010	53.0	0.70

Project: Hushamu05 **Hole Number:** R 029

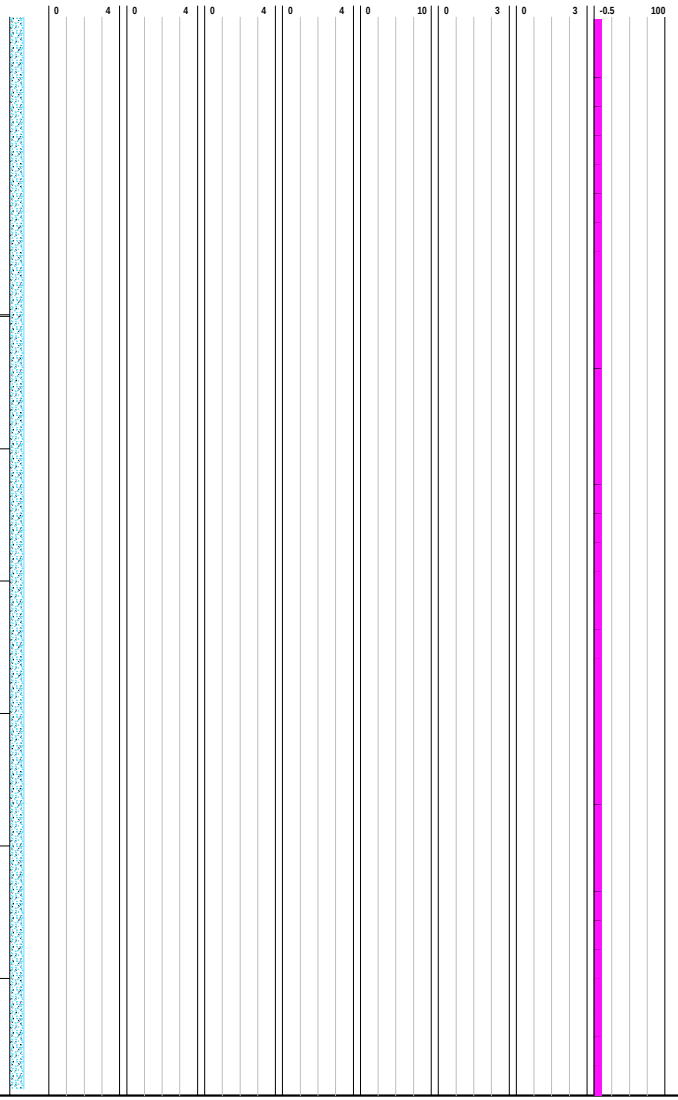
From	To	Rocktype & Description
54.90	90.70	JB2

ANDESITE LAPILLI TUFF: Dark grey-black with minor lighter zones. Remnant lapilli fragments. Variable strong to moderately magnetic. Silica-magnetite altered. Pyrite disseminated throughout up to 5%. Pyrite as fracture fill and stringers with quartz. Hematite alteration surrounding fractures. Strong brittle fracture throughout.

« 54.90- 90.70 pyrite 5.00%», fracture fill and disseminated « magnetite 3.00» « si 2.50»
« 86.40- 90.70 si 2.00» « he 2.00» « ms 2.00»

< @ 57.60 pyrite quartz vein 5.00° 3.00mm >
< @ 60.80 pyrite quartz vein 5.00° 3.00mm >
< @ 70.70 calcite quartz breccia vein 2.00° 60.00cm >
< @ 79.60 fault gouge 50.00cm > with quartz and calcite
< @ 80.60 fault breccia 55° 3cm > sericite, clay fault slip

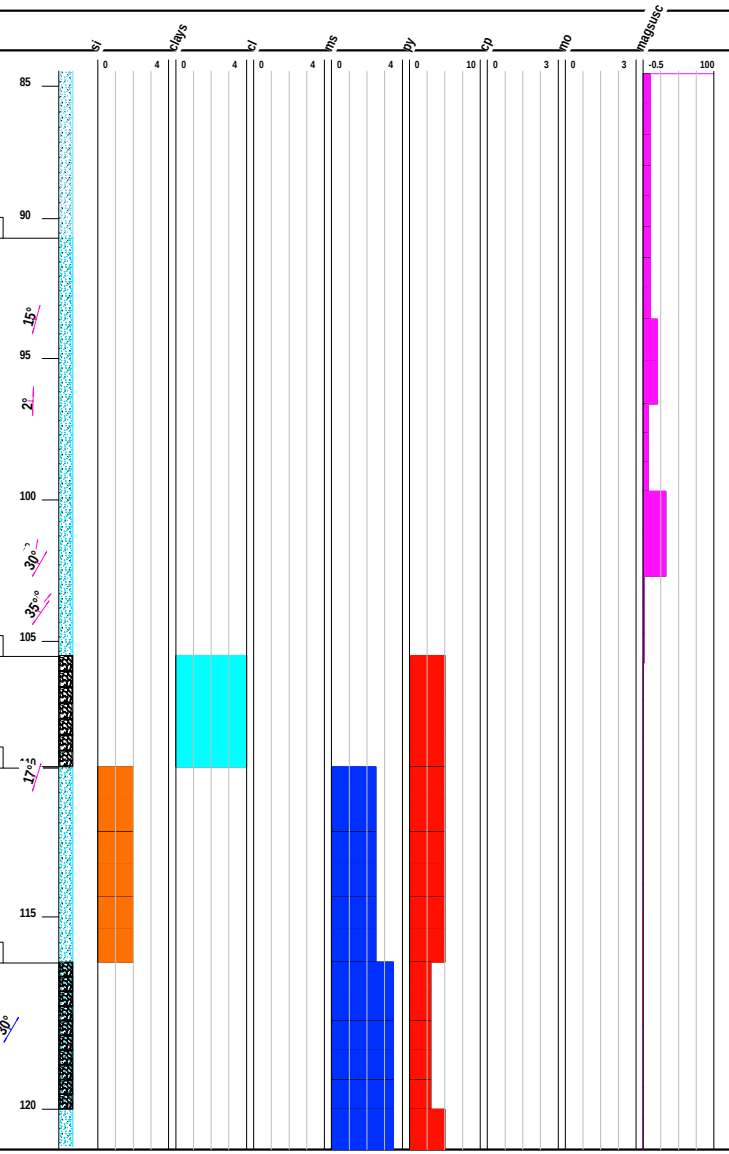
78.40- 90.70 stringer zone with quartz hematite late calcite. Basal contact appears to be gradational or difficult to determine in strongly broken quartz-hematite stringered zone.



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
54.90	57.00	2.10	336462	0.000	0.0	0.00
57.00	60.00	3.00	336463	0.010	42.0	0.90
60.00	63.10	3.10	336464	0.020	66.0	0.70
64.60	66.10	1.50	336467	0.010	29.0	0.40
66.10	69.20	3.10	336468	0.010	18.0	0.50
69.20	71.60	2.40	336469	0.010	36.0	0.40
71.60	74.70	3.10	336470	0.010	67.0	0.30
74.70	76.00	1.30	336471	0.010	89.0	0.20
76.00	78.30	2.30	336472	0.010	53.0	0.30
78.30	80.80	2.50	336473	0.010	61.0	0.80
80.80	83.00	2.20	336474	0.010	69.0	0.40
83.00	84.40	1.40	336475	0.010	50.0	0.40
84.40	86.90	2.50	336476	0.010	101.0	0.30
86.90	89.60	2.70	336477	0.010	53.0	0.70

Project: Hushamu05 **Hole Number:** R 029

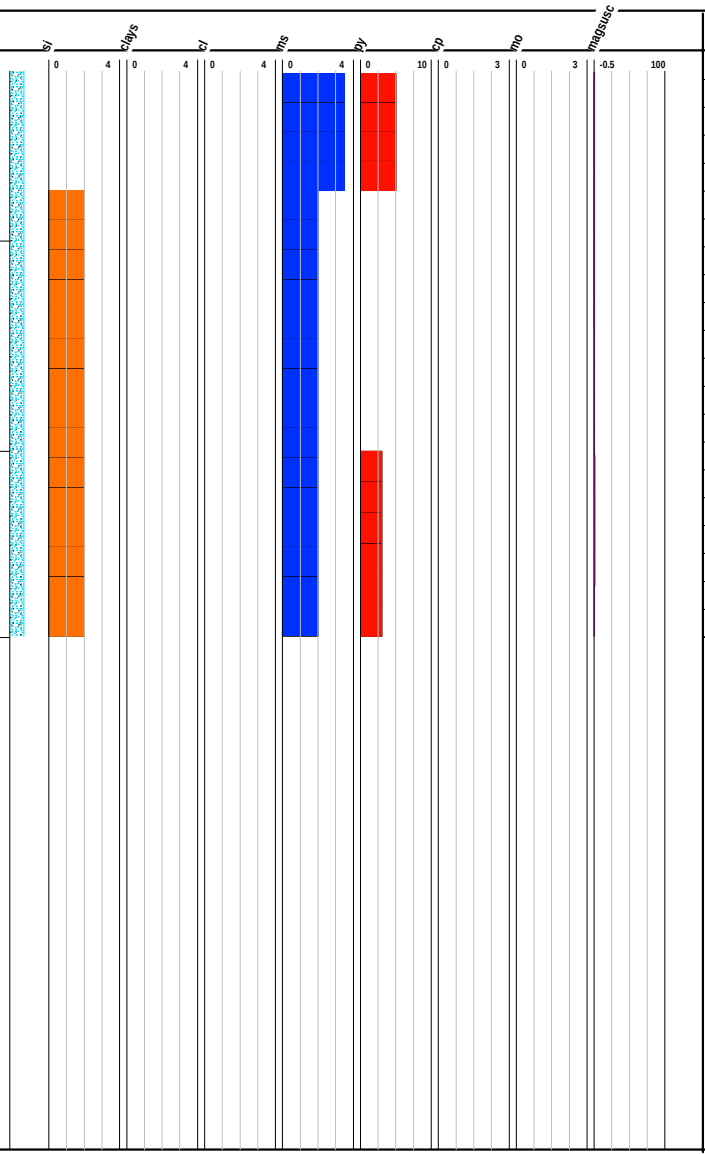
From	To	Rocktype	& Description
90.70	105.50	JB1	ANDESITE: Dark to medium green to black. Medium to coarse grained volcanic. Variably stringered with quartz. Pink quartz due to hematite +/- pyrite. Magnetic zones in dark black intervals. < @ 97.00 quartz pyrite vein 2° 3mm > with hematite 91.80- 92.40 Quartz hem. stringered sub parallel TCA 2-20°» < @ 94.10 quartz hematite calcite vein 15° 15mm > < @ 102.40 pyrite vein 10° 3mm > < @ 102.70 quartz hematite vein 30° 1cm > < @ 104.10 quartz hematite vein 40° 1cm > with calcite sericite stringer clay slip < @ 104.40 sericite vein 35° 1cm >
105.50	110.00	FLBX	Light green broken zone with strong clay alteration. Fault slip parallel TCA. Top contact 25 TCA. Strongly pyritic. Minor silica hematite fragments. « cy 4.00» « pyrite 5.00%» as fracture fill
110.00	116.50	JB1	ANDESITE: Strongly altered volcanic? Medium to light green grey with orange brown hematite silica zones. All strongly fractured. Numerous fault slips. « ms 2.50» « he 1.50» « si 2.00» « pyrite 5.00%» as stringers < @ 110.80 sericite hematite vein 17.00° 5.00cm >
116.50	134.40	JB1	ANDESITE: Strongly altered volcanic? Mottled medium to light green and orange brown. « 116.50- 120.00 FLBX » strongly broken and fault slipped at 30-40 TCA. Fragments of silica-hematite. Minor quartz pyrite stringers. « ms 3.50» « he 1.00» < @ 118.40 fault gouge 30.00° 15.00cm > « pyrite 3.00%» as stringers



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm
93.40	96.60	3.20	336478	0.010	60.0	0.50
99.20	101.50	2.30	336479	0.010	55.0	0.20
101.50	103.30	1.80	336480	0.010	63.0	1.10
103.30	105.50	2.20	336481	0.020	105.0	2.60
111.90	114.90	3.00	336483	0.010	47.0	6.00
130.10	133.20	3.10	336484	0.010	122.0	2.10

Project: Hushamu05 **Hole Number:** R 029

From	To	Rocktype & Description
		« 120.00- 123.80 ms 3.50» pale green sericite, « pyrite 5.00%» as fracture fill with quartz
		< @ 123.80 fault gouge 85° 2cm >
		« 123.80- 134.40 he 2» « si 2.00» « ms 2.00» Sericite very strong parallel to late fractures and fault slips
		< @ 129.50 fault gouge 30.00° >
		« 130.00- 134.40 bi 3.00» Darker brown possibly potassic? « pyrite 3.00%» as mm stringers 3%»
		PIMA samples:
		R029-117.8 smectite, kaolinite
		R029-122.4 smectite, kaolinite
		R029-133.7 smectite, kaolinite
134.40	134.40	EOH



From	To	Width	Sample	Au ppm	Cu ppm	Mo ppm

Drill Log Legend


ANDS

ANLT

CASN


FLBX


FLTG


JB1


JB2


JB4


JB5


JB6


JBa1


JBa2


JBa3


JBa4


JBa5


JBa6


JI1


JI2


JI3


JI4


OVBN


Rubble


Ti


bedding


fault


fault beccia


fault breccia


fault gouge


vein


veinlet

Appendix E.1: Certificates of Analysis

(Rock, Silt and Soil Samples)

VA05077085 - Finalized
CLIENT : EIA - Equity Engineering Ltd.
# of Samples : 12
DATE RECEIVED : 2005-09-12 DATE FINALIZED : 2005-10-24
PROJECT : Hushamu
CERTIFICATE COMMENTS : MS06: 0.25M NH2OH.HCl in 0.25M HCl. 1g / 25mL for 2 hr @ 60 degrees Celsius.
PO NUMBER : LCC05-01

	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06
SAMPLE	Ag	Al	As	Au	B	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe
DESCRIPT	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
HMM 1-1	0.074	7670	0.4	<0.05	<2	16.35	<0.05	0.605	32	320	0.07	1.14	0.6	7.27	0.248	42	0.156	0.076	0.052	23100
HMM 1-2	0.135	12150	0.3	<0.05	<2	16.35	0.09	0.596	32	400	0.06	2.24	0.51	5.24	0.262	45.8	0.298	0.146	0.106	16050
HMM 1-3	0.282	7750	0.2	<0.05	<2	17.75	0.07	0.393	7	470	0.09	1.925	0.57	5.56	0.269	71.3	0.218	0.105	0.072	12200
HMM 1-4	0.209	14850	0.1	<0.05	<2	9.66	0.05	0.299	35	260	0.08	1.305	0.4	15.55	0.235	79.8	0.283	0.122	0.087	23400
HMM 1-5	0.393	25800	0.4	<0.05	<2	38.5	0.19	0.313	33	9460	0.19	2.57	0.44	4.05	0.459	65.2	0.591	0.263	0.203	12800
HMM 1-6	0.338	48200	0.4	<0.05	<2	13	0.43	0.163	271	2170	0.11	8.21	0.25	7.46	0.154	62.2	1.7	0.796	0.548	8680
HMM 2-1	0.067	9660	0.1	<0.05	<2	18.95	<0.05	0.631	25	270	0.02	1.015	0.2	4.73	0.053	3.7	0.16	0.09	0.045	14400
HMM 2-2	0.206	6520	0.1	<0.05	<2	20.7	<0.05	0.378	9	1360	0.15	1.215	0.64	2.58	0.023	1.9	0.096	0.055	0.03	10950
HMM 2-3	0.374	35800	1.2	<0.05	<2	15.3	1.83	0.086	35	1250	0.8	44	5.86	2.35	0.094	32.3	13.35	7.45	2.89	1845
HMM 2-4	0.097	1390	0.1	<0.05	4	4.98	<0.05	0.15	5	320	0.19	0.627	0.17	0.32	0.014	10.4	0.108	0.058	0.028	4090
HMM 2-5	0.195	549	0.1	<0.05	3	6.57	<0.05	0.015	8	1150	0.11	0.247	0.08	0.29	0.011	0.79	0.025	0.013	0.007	393
HMM 2-6	0.118	615	<0.1	<0.05	2	9.61	<0.05	0.009	6	2000	0.1	0.19	0.05	0.24	0.009	0.62	0.014	0.009	0.005	261

	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06
SAMPLE	Ga	Gd	Ge	Hf	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb	Nd
DESCRIPT	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
HMM 1-1	4.21	0.154	<0.1	0.07	<0.1	0.028	7.1	0.115	58	0.53	0.43	0.008	598	21.8	0.57	80	0.28	0.567
HMM 1-2	2.35	0.33	<0.1	0.04	<0.1	0.058	7.6	0.12	84	1.095	0.51	0.014	380	17.7	0.61	70	0.12	1.23
HMM 1-3	2.16	0.229	<0.1	0.01	<0.1	0.041	0.8	0.101	41	1.04	0.5	0.009	493	17.6	2.29	100	0.07	0.946
HMM 1-4	3.33	0.254	<0.1	0.08	<0.1	0.056	6.3	0.176	105	0.476	0.43	0.013	332	11.6	1.17	70	0.2	0.782
HMM 1-5	1.88	0.626	<0.1	0.09	<0.1	0.104	7.4	0.109	351	1.065	0.18	0.024	62	6.8	1.74	170	0.05	1.775
HMM 1-6	1.61	1.78	0.1	0.18	<0.1	0.317	56	0.207	159	3.96	0.12	0.073	43	4.8	0.66	70	0.16	5.25
HMM 2-1	4.47	0.152	<0.1	0.04	<0.1	0.032	4.3	0.041	57	0.457	0.35	0.01	334	13.4	0.02	100	0.16	0.531
HMM 2-2	4.48	0.104	<0.1	0.01	<0.1	0.02	1.4	0.023	96	0.463	0.23	0.006	739	46.5	0.02	90	0.09	0.443
HMM 2-3	0.65	14.05	0.1	0.08	<0.1	2.84	4	0.027	44	34.9	0.15	0.562	72	10	0.18	100	0.05	39.1
HMM 2-4	0.25	0.124	<0.1	<0.01	<0.1	0.024	2.8	0.007	200	0.494	<0.05	0.005	272	7.6	0.14	100	<0.01	0.422
HMM 2-5	<0.05	0.028	<0.1	<0.01	<0.1	0.005	1.5	<0.005	278	0.166	<0.05	<0.005	2020	14.6	0.02	270	<0.01	0.114
HMM 2-6	<0.05	0.016	<0.1	<0.01	<0.1	<0.005	3.7	<0.005	165	0.135	<0.05	<0.005	2270	6.2	0.01	260	<0.01	0.088

	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06
SAMPLE	Ni	P	Pb	Pr	Rb	Re	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U
DESCRIPT	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
HMM 1-1	1.18	17	14.6	0.136	0.55	<0.001	0.012	0.6	0.154	0.07	8.98	0.01	0.027	0.05	0.03	108	0.019	0.01	0.155
HMM 1-2	1.09	27	17.8	0.297	0.99	<0.001	0.009	0.7	0.303	<0.05	9.71	<0.01	0.057	<0.05	0.03	54	0.016	0.019	0.237
HMM 1-3	1.12	29	14.7	0.232	0.62	0.002	0.006	<0.5	0.213	<0.05	12.3	<0.01	0.04	<0.05	<0.01	25	0.016	0.013	0.162
HMM 1-4	1.12	18	39.2	0.171	0.64	<0.001	0.01	0.6	0.244	0.11	8.42	0.01	0.049	0.05	0.1	48	0.027	0.017	0.283
HMM 1-5	1.1	112	33.9	0.384	1.58	<0.001	0.019	0.8	0.531	<0.05	39.5	0.01	0.108	<0.05	0.12	33	0.085	0.034	0.157
HMM 1-6	0.63	140	13.6	1.195	0.71	0.003	0.009	2.4	1.515	<0.05	10.85	0.01	0.308	0.06	0.46	92	0.046	0.1	0.306
HMM 2-1	1.14	16	4.1	0.129	0.35	<0.001	0.006	<0.5	0.148	<0.05	11.5	0.01	0.026	0.05	0.02	16	0.013	0.013	0.143
HMM 2-2	1.22	17	5.8	0.108	0.23	<0.001	0.007	<0.5	0.097	0.05	22.5	<0.01	0.015	0.06	<0.01	54	0.008	0.007	0.065
HMM 2-3	2.66	321	6.9	9.41	0.14	0.009	0.035	3.7	8.7	<0.05	12.8	0.01	2.39	<0.05	0.04	20	0.084	0.834	0.062
HMM 2-4	0.53	21	3.5	0.099	0.21	<0.001	0.006	<0.5	0.089	<0.05	3.49	<0.01	0.021	<0.05	<0.01	5	<0.005	0.007	0.034
HMM 2-5	0.58	140	4.8	0.029	0.25	<0.001	<0.005	<0.5	0.02	<0.05	25	<0.01	<0.005	<0.05	0.01	1	0.006	<0.005	0.013
HMM 2-6	0.43	103	4.3	0.022	0.2	<0.001	<0.005	<0.5	0.016	<0.05	33.1	<0.01	<0.005	<0.05	0.01	2	<0.005	<0.005	0.01

	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	pH-MS06	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
SAMPLE	V	W	Y	Yb	Zn	Zr	Final pH	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
DESCRIPT	ppm	ppm	ppm	ppm	ppm	ppm	Unity	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
HMM 1-1	43.9	<0.01	0.537	0.063	7.1	0.77	1.1	0.12	2.34	15.6	<10	20	0.09	1.49	0.17	0.15	6.63	8.4	57
HMM 1-2	42.4	<0.01	1.13	0.103	8.3	0.39	1.2	0.18	3.16	9.7	<10	30	0.13	1.4	0.12	0.11	6.54	5.9	24
HMM 1-3	77.6	<0.01	0.841	0.075	10.1	0.14	1.1	0.33	2.63	2.4	<10	30	0.1	0.92	0.15	0.16	6.2	6.5	34
HMM 1-4	34.6	<0.01	0.833	0.103	7	0.78	1.1	0.32	3.45	1.7	<10	20	0.14	0.81	0.09	0.15	6.33	6	87
HMM 1-5	6.34	<0.01	2.01	0.193	2.6	0.75	1.2	0.46	5.26	7.7	<10	70	0.25	0.94	1.24	0.38	7.34	7.5	71
HMM 1-6	9.15	0.01	7.2	0.569	2.7	1.95	1.6	0.4	7.35	2.7	<10	30	0.45	0.76	0.39	0.15	15.25	6.6	21
HMM 2-1	55.2	<0.01	0.623	0.078	3.7	0.4	1.1	0.09	2.37	4.4	<10	30	0.06	1.39	0.08	0.02	4.48	6	75
HMM 2-2	45.1	<0.01	0.442	0.046	7.2	0.16	1.1	0.25	1.59	4	<10	30	0.06	1.02	0.21	0.17	6.54	7.6	37
HMM 2-3	16.35	0.03	93.4	4.06	10.8	0.29	1.3	0.58	4.01	2	<10	20	1.36	0.31	0.14	0.8	50	10.2	7
HMM 2-4	20.1	<0.01	0.682	0.035	4.2	<0.05	1.2	0.12	0.19	16.5	<10	<10	<0.05	0.91	0.03	0.22	1.62	0.4	3
HMM 2-5	0.58	<0.01	0.153	0.008	7.5	<0.05	1.2	0.21	0.07	1.5	<10	10	<0.05	0.03	0.11	0.11	0.46	0.2	1
HMM 2-6	0.35	<0.01	0.09	0.006	8	<0.05	1.2	0.18	0.07	0.6	<10	10	<0.05	0.02	0.19	0.09	0.38	0.1	1

	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
SAMPLE	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
DESCRIPT	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
HMM 1-1	1.52	229	8.29	16.25	0.19	0.02	0.21	0.273	0.02	3.1	6.3	0.68	271	49.1	0.01	1.63	17	310
HMM 1-2	1.65	222	5.5	16.9	0.13	<0.02	0.27	0.283	0.03	3.3	11.8	0.55	224	61.5	0.01	1.77	8.3	320
HMM 1-3	1.52	199.5	3.21	15.75	0.09	<0.02	0.18	0.199	0.02	3.3	9.2	0.58	234	94.7	0.01	1.39	10.2	310
HMM 1-4	1.51	357	7.04	16.25	0.17	0.02	0.21	0.31	0.02	2.8	12.2	0.38	152	69.2	0.01	1.8	14.8	240
HMM 1-5	1.3	291	7.2	10	0.2	0.05	0.21	0.265	0.06	3.3	8.8	1.03	202	57.7	0.03	0.89	23	810
HMM 1-6	1	473	4.34	13.75	0.13	0.1	0.56	0.425	0.03	7.2	5.7	0.51	118	50.1	0.01	1.09	8.2	740
HMM 2-1	0.48	22.5	6.26	16.6	0.15	<0.02	0.16	0.099	0.02	2.1	5	0.53	277	3.45	0.01	1.72	12.3	240
HMM 2-2	0.24	23.2	5.55	14.5	0.14	0.03	0.14	0.079	0.02	2.4	2.1	0.35	174	4.08	0.01	2.27	11.6	300
HMM 2-3	0.39	173.5	0.4	2.96	0.17	0.18	0.18	0.036	0.01	37.1	2.4	0.1	48	3.07	0.01	0.4	7.7	1100
HMM 2-4	0.05	223	6.83	3.05	0.18	<0.02	0.11	0.059	0.02	0.9	0.1	0.02	11	64.5	0.01	0.22	1.8	550
HMM 2-5	<0.05	4.9	0.1	0.18	<0.05	<0.02	0.14	<0.005	0.02	0.3	0.1	0.18	15	1.03	0.02	<0.05	1.5	330
HMM 2-6	<0.05	4.1	0.05	0.14	<0.05	<0.02	0.13	<0.005	0.02	0.2	<0.1	0.2	7	0.36	0.02	<0.05	1.1	340

	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
SAMPLE	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
DESCRIPT	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
HMM 1-1	20.3	2.7	0.001	0.02	0.21	4.9	3.1	2.4	32.3	0.01	0.69	0.5	0.191	0.12	0.33	202	0.19	1.87	61	0.6
HMM 1-2	28	4.3	0.002	0.04	0.18	4	2.9	2.2	28.2	0.01	0.55	0.3	0.108	0.12	0.45	164	0.17	2.07	58	<0.5
HMM 1-3	25.5	3.3	0.012	0.05	0.14	3.4	1.9	2.1	31	<0.01	0.27	<0.2	0.075	0.1	0.37	170	0.1	1.82	62	<0.5
HMM 1-4	59	3.1	0.003	0.03	0.11	5.4	2	3.3	26.7	0.02	0.26	0.8	0.086	0.17	0.45	170	0.12	2.03	84	0.5
HMM 1-5	46.4	3.6	0.028	0.1	0.17	8.6	7.9	1.9	146	0.01	0.42	1	0.059	0.18	0.33	90	0.12	4.77	78	1.1
HMM 1-6	20.9	2.4	0.013	0.07	0.08	11.9	8.3	1.9	56.5	0.03	0.59	0.8	0.071	0.15	0.9	86	0.12	11.75	47	1.4
HMM 2-1	7.3	2.1	<0.001	0.04	0.23	4.3	2.1	2.6	27.3	<0.01	0.51	0.3	0.14	0.09	0.29	255	0.07	1.5	27	<0.5
HMM 2-2	9.3	1.5	<0.001	0.04	0.23	3	1.9	1.6	38.9	<0.01	0.47	0.6	0.18	0.04	0.19	206	0.14	1.3	22	0.9
HMM 2-3	6.9	0.5	0.061	0.34	0.16	3	24.4	0.3	20.9	0.04	0.14	<0.2	0.024	0.13	0.31	27	0.15	108	23	<0.5
HMM 2-4	3.5	0.3	0.001	0.07	0.33	0.6	4.6	1.6	3.7	<0.01	1.48	0.2	0.011	<0.02	0.09	83	0.07	0.79	5	<0.5
HMM 2-5	4.1	0.3	<0.001	0.08	0.06	0.3	2	0.2	26.7	<0.01	0.07	<0.2	<0.005	<0.02	<0.05	2	0.08	0.19	7	<0.5
HMM 2-6	2.6	0.3	<0.001	0.1	<0.05	0.2	2.4	0.2	34.8	<0.01	0.06	<0.2	<0.005	<0.02	<0.05	1	<0.05	0.1	8	<0.5

VA05077086 - Finalized
CLIENT : EIA - Equity Engineering Ltd.
# of Samples : 138
DATE RECEIVED : 2005-09-12 DATE FINALIZED : 2005-10-24
PROJECT : Hushamu
CERTIFICATE COMMENTS : MS06: 0.25M NH2OH.HCl in 0.25M HCl. 1g / 25mL for 2 hr @ 60 degrees Celsius.
PO NUMBER : LCC05-01

	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06	ME-MS06
SAMPLE	Ag	Al	As	Au	B	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy
DESCRIPTION	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L5000E 2700N	0.049	12250	0.2	<0.05	<2	30.9	0.18	0.06	14	920	0.09	7.08	8.09	13.95	0.07	9.41	0.91
L5000E 2800N	0.004	389	0.1	<0.05	<2	15.4	<0.05	0.007	4	3750	0.05	0.185	0.12	0.33	0.009	0.47	0.013
L5000E 2900N	0.034	1375	0.3	<0.05	8	13.5	<0.05	0.007	3	5510	0.05	1.28	0.43	0.51	0.017	0.86	0.162
L5000E 3000N	0.025	378	<0.1	<0.05	<2	15.9	<0.05	0.009	3	3580	0.05	0.203	0.19	0.26	0.03	1.35	0.011
L5000E 3100N	0.03	20100	0.1	<0.05	<2	57.8	0.57	0.014	19	200	0.07	4.31	5.65	33.6	0.064	9.1	2.89
L5000E 3200N	0.073	20700	0.2	<0.05	<2	44.6	0.23	0.019	30	160	0.25	4.47	4.49	30.4	0.075	9.96	1.43
L5000E 3300N	0.042	23800	0.1	<0.05	2	62.6	0.37	0.027	35	470	0.15	9.78	6.78	33.5	0.13	9.45	1.82
L5000E 3400N	0.122	31700	0.8	<0.05	<2	68.1	0.68	0.01	67	220	0.19	11.75	10.3	22.8	0.076	17.4	5.05
L5000E 3400ND	0.046	40800	0.2	<0.05	<2	15.8	0.48	<0.005	64	820	0.1	8.03	3.86	23.4	0.04	7.83	1.665
L5000E 3500N	0.047	7240	0.4	<0.05	<2	29.3	0.13	0.014	11	1190	0.09	5.16	26	9.22	0.069	7.13	0.798
L5000E 3600N	0.046	7210	0.5	<0.05	<2	29.4	0.13	0.011	9	1200	0.09	5.24	25.8	9.2	0.075	7.14	0.815
L5000E 3700N	0.079	21300	0.2	<0.05	<2	78.4	0.21	0.026	43	170	0.27	6.57	2.38	38.8	0.058	12.55	1.065
L5000E 3800N	0.178	15550	3.4	<0.05	2	37.4	0.3	0.151	5	11000	0.37	6.86	9.05	3.04	0.499	15.15	0.903
L5000E 3900N	0.016	29100	0.2	<0.05	<2	6.65	0.49	0.009	19	1090	0.07	3.47	1.28	15.8	0.044	10.95	2.33
L5400E 2500N	0.005	15650	0.1	<0.05	<2	6.8	0.24	0.053	11	110	0.03	3.64	1.66	20.5	0.039	5.51	1.095
L5400E 2600N	0.029	20100	0.1	<0.05	<2	55.7	0.37	0.008	17	120	0.05	4.18	4.55	24.2	0.022	11.25	2.09
L5400E 2700N	0.037	15650	0.1	<0.05	<2	17	0.19	0.019	28	590	0.05	4.93	2.5	29	0.03	9.25	0.946
L5400E 2800N	0.013	32100	0.1	<0.05	<2	10.7	0.53	0.023	39	140	0.03	7.08	7.33	28.8	0.016	9.84	1.745
L5400E 2900N	0.046	39500	0.1	<0.05	2	5.87	0.49	0.021	54	270	0.04	4.39	6.24	32.6	0.015	8.63	1.235
L5400E 3000N	0.04	27200	0.1	<0.05	<2	10.65	0.29	0.018	44	300	0.07	4.4	1.8	35.3	0.022	5.15	0.847
L5400E 3100N	0.04	17700	0.1	<0.05	<2	22.5	0.32	0.01	15	190	0.09	4.58	6.42	30.8	0.089	6.27	1.925
L5400E 3200N	0.07	4290	0.5	<0.05	2	18.05	0.1	0.138	5	6840	0.14	3.83	3.76	1.16	0.019	1.9	0.629
L5400E 3300N	0.054	29700	0.1	<0.05	<2	20.3	0.29	0.012	13	80	0.2	7.15	2.03	40.9	0.031	6.96	1.255
L5400E 3400N	0.022	23000	0.1	<0.05	<2	80.9	0.44	0.012	44	160	0.11	6.25	6.85	30.7	0.067	14.05	2.1
L5400E 3500N	0.055	16850	0.2	<0.05	<2	38.5	0.62	0.049	13	2360	0.25	6.23	3.15	15.9	0.205	10.85	2.51
L5400E 3600N	0.093	21200	0.1	<0.05	<2	83.2	0.38	0.012	28	200	0.13	7.11	6.88	31.2	0.092	11.5	2.02
L5400E 3700N	0.041	26200	0.2	<0.05	<2	39.5	0.24	0.009	56	100	0.18	5.33	1.35	34.3	0.083	12.25	0.895
L5400E 3800N	0.05	14300	0.2	<0.05	<2	98.6	0.31	0.042	4	1500	0.3	10.8	2.48	11.6	0.045	12.9	1.55
L5400E 3900N	0.025	16500	0.1	<0.05	<2	143.5	0.44	0.079	21	1290	0.07	7.3	7.73	25.6	0.213	15.2	2.12
L5600E 2700N	0.016	10500	<0.1	<0.05	<2	17.15	0.18	0.013	9	670	0.06	2.16	1.33	15.35	0.138	5.37	0.496
L5600E 2800N	0.04	17800	0.1	<0.05	<2	17.6	0.27	0.009	25	170	0.08	2.59	6.44	22.6	0.027	7.67	1.33
L5600E 2900N	0.053	5460	0.8	<0.05	3	26.3	0.23	0.007	4	11850	0.19	7.2	3.18	1.14	0.015	2.8	1.05
L5800E 2700N	0.024	22000	0.1	<0.05	<2	7.65	0.27	0.006	34	150	0.05	4.81	1.76	28.4	0.046	8.34	1.375
L5800E 2800N	0.058	10400	1	<0.05	<2	39.3	0.23	0.014	5	5210	0.21	12.7	5.07	11.7	0.07	13.4	1.695
L5800E 2900N	0.022	1325	0.1	<0.05	2	10.05	<0.05	0.005	5	2680	0.08	0.957	0.27	0.51	0.018	1.63	0.11
L5800E 3000N	0.017	508	<0.1	<0.05	<2	9.3	<0.05	0.007	3	4100	0.03	0.252	0.07	0.5	0.01	0.23	0.021
L5800E 3100N	0.021	4410	<0.1	<0.05	<2	7.26	<0.05	0.024	5	260	0.06	1.93	0.18	5.27	0.017	1.34	0.258
L5800E 3200N	0.072	28500	0.2	<0.05	<2	15.8	0.29	0.006	56	90	0.17	4.52	2.42	34.8	0.037	8.3	0.968
L5800E 3300N	0.041	26200	0.2	<0.05	<2	78.9	0.5	0.016	38	140	0.21	7.05	6.96	34.5	0.08	9.63	2.47
L5800E 3400N	0.033	15100	0.1	<0.05	<2	72.4	0.39	0.007	32	310	0.12	6.22	5.62	28.1	0.136	7.59	2.01
L5800E 3500N	0.026	4130	0.3	<0.05	<2	21.9	0.05	0.053	7	1600	0.05	2.17	8.62	5.54	0.108	5.95	0.367
L5800E 3600N	0.011	23800	0.2	<0.05	<2	19.2	0.32	0.015	8	930	0.05	10.1	2.17	21.4	0.016	9.46	1.705
L5800E 3700N	0.047	4490	0.4	<0.05	3	20.1	0.15	<0.005	3	7740	0.17	4.17	4.64	1	0.031	3.39	0.844
L5800E 3800N	0.083	31000	0.1	<0.05	<2	38.2	0.39	<0.005	70	160	0.16	6.3	5.52	32.5	0.051	8.49	1.35
L5800E 3900N	0.064	28800	0.1	<0.05	<2	16.6	0.36	<0.005	61	140	0.12	7.39	3.11	40.3	0.058	7.95	1.785
L5800E 4100N	0.018	1145	<0.1	<0.05	<2	11.4	<0.05	<0.005	3	3990	0.07	0.267	0.45	0.81	0.024	1.14	0.027
L5800E 4200N	0.014	8000	0.1	<0.05	<2	59.9	0.23	0.016	4	2480	0.1	4.96	2.6	9.63	0.131	7.81	0.543
L5800E 4200ND	0.028	1575	0.2	<0.05	<2	22.8	<0.05	<0.005	4	2940	0.09	0.977	3.2	1.21	0.045	2.04	0.093
L5800E 4300N	0.015	599	<0.1	<0.05	<2	26	<0.05	<0.005	5	4240	0.1	0.115	0.39	0.35	0.018	0.77	0.011
L5800E 4400N	0.082	9400	0.4	<0.05	<2	39	0.28	<0.005	3	5100	0.15	6.06	1.44	2.3	0.047	5.92	0.691
L5800E 4500N	0.014	8500	0.3	<0.05	<2	41.2	0.16	0.005	8	1100	0.13	4.06	2.49	9.06	0.084	3.89	0.605
L5800E 4600N	0.14	27700	0.1	<0.05	<2	6.53	0.31	<0.005	44	230	0.15	7.74	0.96	29.9	0.036	7.38	2.26
L5800E 4700N	0.052	38000	0.2	<0.05	<2	9.1	0.45	<0.005	30	320	0.11	5.93	4.92	18.4	0.035	9.72	1.95
L5800E 4700ND	0.052	37000	0.1	<0.05	<2	11.8	0.45	<0.005	23	350	0.12	5.77	6.75	18.9	0.036	12.3	2.63
L6000E 2800N	0.004	5010	<0.1	<0.05	<2	85.1	0.11	<0.005	8	310	0.05	4.13	3.11	11.35	0.093	6.58	0.654
L6000E 2900N	0.033	5620	0.2	<0.05	<2	19.35	0.12	<0.005	4	3620	0.08	3.52	1.07	1.82	0.018	5.05	0.704
L6000E 2900ND	0.033	5150	0.1	<0.05	<2	20.9	0.14	<0.005	3	4330	0.09	3.2	1.2	1.57	0.025	4.42	0.649
L6000E 3000N	0.022	30000	0.1	<0.05	<2	37.6	0.39	<0.005	56	80	0.07	4.24	3.67	32.4	0.058	5.02	0.979
L6000E 3100N	0.108	19900	0.3	<0.05	<2	38.9	0.17	<0.005	52	290	0.2	6.29	1.38	35.6	0.061	5.95	1.275
L6000E 3200N	0.028	24400	0.2	<0.05	<2	68	0.25	0.005	46	140	0.13	8.11	2.73	39.9	0.031	16	1.205
L6000E 3300N	0.007	4130	0.1	<0.05	<2	24.1	<0.05	0.02	5	780	0.05	0.664	0.95	6.02	0.036	1.85	0.075
L6000E 3400N	0.028	32700	0.1	<0.05	<2	9.73	0.36	<0.005	27	190	0.11	5.22	2.69	30.6	0.049	9.85	1.88
L6000E 3500N	0.01	26600	0.3	<0.05	<2	10.35	0.46	<0.005	18	240	0.04	9.35	2.09	21.9	0.033	18.85	1.705
L6000E 3600N	0.015	4500	0.4	<0.05	<2	19.25	0.08	0.005	10	1370	0.05	2.6	24	6.8	0.093	6.42	0.43
L6000E 3700N	0.08	24400	0.2	<0.05	<2	71.1	0.55	0.006	31	190	0.17	6.98	6.38	33.2	0.087	12.15	1.78
L6000E 3800N	0.044	22000	0.1	<0.05	<2	30.3	0.24	0.006	38	140	0.12	5.37	1.42	36.9	0.065	9.94	0.864
L6000E 3900N	0.03	31800	0.1	<0.05	<2	52.5	0.75	<0.005	45	260	0.08	5.1	7.42	32.7	0.07	8.66	1.77
L6000E 4000N	0.06	26700	0.1	<0.05	<2	43.9	0.44	0.006	42	90	0.12	4.93	4.33	28.8	0.053	16.75	2.76
L6000E 4000ND	0.066	25100	0.1	<0.05	<2	41	0.36	0.007	43	90	0.14	5.53	4.02	30.9	0.049	17	2.27
L6000E 4100N	0.046	860	<0.1	<0.05	<2	26.1	<0.05	<0.005	3	2630	0.15	0.175	0.4	0.36	0.036	1.43	0.021
L6000E 4200N	0.04	10650	0.2	<0.05	<2	32.6	0.41	<0.005	4	9180	0.08	10.35	1	2.87	0.071	7.01	1.435
L6000E 4300N	0.006	13950	0.1	<0.05	<2	183.5	0.36	0.006	12	360	0.06	9.91	21.9	20.6	0.211	17.35	0.98
L6000E 4400N	0.021	18450	0.3	<0.05	<2	33.2	0.25	<0.005	18	580	0.07	5.89	5.77	17.05	0.047	9.69	1.14
L6000E 4500N	0.016	3540	<0.1	<0.05	<2	48.3	0.2	0.017	7	1220	0.07	2.52	2.42	4.7	0.02	5.23	0.41
L6000E 4600N	0.018	17150	0.2	<0.05	<2	64.8	0.32	<0.005	16	370	0.08	6.9	5.55	12.65	0.035	30.9	1.48
L6200E 2000N	0.035	14500	0.1	<0.05	<2	9.38	0.08	<0.005	27	470	0.04	2.19	0.69	23.2	0.016	8.76	0.399
L6200E 2100N	0.093	28400	0.2	<0.05	2	48.7	0.56	<0.005	30	3490	0.1	11.75	241	23.7	0.045	5.76	1.21
L6200E 2200N	0.052	2340	<0.1	<0.05	<2	14.2	<0.05	0.007	3	1980	0.05	0.56	1.47	4.45	0.015	1.3	0.057
L6200E 2300N	0.062	14650	0.1	<0.05	<2	6.41	0.09	0.005	16	450	0.05	1.365	0.69	23.5	0.016	4.58	0.32
L6200E 2400N	0.019	8190	0.1	<0.05	<2	115	0.18	<0.005	9	1230	0.07	4.23	7.5	23.6	0.16	19.35	0.895
L6200E 2500N	0.085	27400	0.1	<0.05	<2	7.25	0.23	<0.005	27	1260	0.08	2.26	2.15	27.1	0.024	8.46	0.554
L6200E 2600N	0.095	30400	0.2	<0.05	<2	18.2	0.23	<0.005	45	370	0.09	3.47	2.8	31.2	0.029	7.81	0.793
L6200E 2700N	0.035	13650	0.7	<0.05	<2	27.4	0.78	<0.005	5	3370	0.11	28	1.24	7.42	0.037	17.9	5.36
L6200E 2800N	0.035	35700	0.1	<0.05	<2	18.55	0.52	<0.005	31	70	0.06	5.76	4.13	29.9	0.041	10.2	2.3
L6200E 2900N	0.01	2670	0.1	<0.05	<2	20.4	0.07	0.005	5	4390	0.06	1.53	0.93	0.71	<0.005	0.6	0.303
L6200E 3000N	0.067	797	<0.1	<0.05	<2	17.65	<0.05	<0.005	4	3250	0.09	0.215	0.88	0.28	0.02	0.78	0.017
L6200E 3100N	0.07	32100	0.2	<0.05	<2	13.3	0.24	<0.005	64	460	0.11	5.98	2.56	31.5	0.011	13.65	1.275
L6200E 3200N	0.039	29000	0.1	<0.05	<2	12.5	0.28	<0.005	46	140	0.1	4.61	8	30.1	0.03	9.9	1.035
L6200E 3300N	0.035	22500	0.1	<0.05	<2	7.37	0.18	<0.005	40	100	0.06	4.16	1.53	27.6	0.025	6.83	0.723
L6200E 3400N	0.056	4870	0.1	<0.05	<2	22.4	<0.05	0.016	3	580	0.07	1.22	0.81	6.15	0.043	1.61	0.039
L6200E 3500N	0.031	1355	<0.1	<0.05	<2	11	<0.05	<0.005	2	1000	0.04	0.45	0.32	0.84	0.032	1.8	0.036
L6200E 3600N	0.075	33500	0.3	<0.05	<2	38.9	1.25	<0.005	36	440	0.09	27.6	247	26	0.171	29	5.36
L6200E 3700N	0.029	10250	0.1	<0.05	<2	8.04	0.05	0.013	28	150	0.05	3.77	1.82	28.1	0.024	5.84	0.397
L6200E 3800N	0.012	7380	<0.1	<0.05	<2	169	0.44	0.01	6	1440	0.09	9.2	20.9	14.6	0.183	10.1	1.35
L6200E 3900N	0.095	797	<0.1	<0.05	<2	41.1	<0.05	<0.005	4	1770	0.09	0.162	1.2	0.31	0.023	1.71	0.011
L6200E 4000N	0.074	5590	0.1	<0.05	<2	21.6	0.11	<0.005	10	6120	0.15	3.76	3.89	3.28	0.026	3.83	0.629
L6200E 4100N	0.074	7940	0.1	<0.05	<2	17.15	0.31	0.018	25	1520	0.07	3.45	54.2	18.95	0.05	5.48	0.595
L6200E 4200N	0.036	4610	0.1	<0.05	<2	26.5	0.17	0.021	6	5310	0.03	3.03	23.6	7.15	0.072	5.84	0.386
L6800E 2100N	0.063	27200	0.1	<0.05	<2	9.63	0.3	<0.005	41	560	0.05	4.02	2.24	25.3	0.037	9.68	1.09
L6800E 2200N	0.04	10000	0.1	<0.05	<2	48.9	0.3	<0.005	2	3310	0.03	8.4	2.92	0.56	<0.005	1.84	1.495
L6800E 2300N	0.054	22300	0.1	<0.05	<2	5.01	0.2	<0.005	53	120	0.07	3.15	0.48	20.5	0.012	9.61	0.884
L6800E 2400N	0.06	12450	0.1	<0.05	<2	12.2	0.08	0.011	29	140	0.02	2.22	0.6	23.8	0.049	4.05	0.357
L6800E 2500N	0.073	25100	0.1	<0.05	<2	7.82	0.14	<0.005	34	180	0.05	2.78	0.64	33	0.014	6.02	0.646
L6800E 2600N	0.061	29200	0.1	<0.05	<2	8.77	0.29	<0.005	18	90	0.05	5.59	4.91	23.3	0.017	13.45	2.31
L6800E 2700N	0.078	32700	0.1	<0.05	<2	14.85	0.41	<0.005	28	380	0.05	4.05	9.45	17.75	0.013	10.7	1.645
L6800E 2800N	0.04	20800	0.1	<0.05	<2	6.87	0.3	<0.005	19	120	0.08	2.89	1.45	19.4	0.036	13.35	0.98
L6800E 2900N	0.015	826	<0.1	<0.05	<2	13.2	<0.05	0.017	2	1590	0.05	0.184	0.3	0.34	0.017	1.12	0.016
L6800E 3000N	0.051	15050	<0.1	<0.05	<2	11.15	0.15	0.007	16	110	0.08	3.17	1.15	31.2	0.073	6.18	0.538
L6800E 3100N	0.031	29600	0.1	<0.05	<2	6.79	0.33	<0.005	42	90	0.05	3.72	4.24	30.2	0.014	9.33	1.22
L6800E 3200N	0.046	27600	0.1	<0.05	<2	10.55	0.44	<0.005	22	340	0.06	4.21	11.1	22.5	0.035	24.3	2.81
L6800E 3300N	0.065	34500	0.1	<0.05	<2	12	0.39	<0.005	62	390	0.06	4.4	6.46	18.9	0.019	12.55	1.255
L6800E 3400N	0.067	7870	0.1	<0.05	<2	13.8	0.06	0.008	12	990	0.07	1.295	0.89	13.7	0.013	3.86	0.219
L6800E 3500N	0.046	6340	0.1	<0.05	<2	5.57	<0.05	<0.005	12	370	0.07	2.02	0.54	13.1	0.015	4.69	0.245
L6800E 3600N	0.041	17650	0.2	<0.05	<2	51.2	0.15	0.006	43	140	0.12	6.65	1.22	24.2	0.023	8.2	1.205
L6800E 3700N	0.01	7680	0.1	<0.05	<2	9.77	0.08	<0.005	10	190	0.04	3.36	0.63	10.45	0.023	3.85	0.635
L6800E 3800N	0.06	2890	<0.1	<0.05	<2	15.25	<0.05	<0.005	3	3860	0.05	0.768	0.65	4.02	0.01	2.09	0.063
L6800E 3900N	0.082	35700	0.1	<0.05	<2	6.73	0.45	<0.005	69	160	0.11	6.11	2.84	27.8	0.011	9.79	1.99
L6800E 3900ND	0.07	40700	0.1	<0.05	<2	6.61	0.55	<0.005	39	160	0.08	4.89	2.94	28.2	0.017	7.02	1.84
L6800E 4000N	0.004	12650	0.4	<0.05	<2	4.64	0.09	<0.005	10	490	0.04	2.71	1.05	8.68	0.046	13.1	0.562
L6800E 4100N	0.04	22900	0.1	<0.05	<2	38.7	0.49	<0.005	25	530	0.07	7.77	2.99	20.6	0.039	5.57	3.44
L6800E 4300N	0.021	14350	0.1	<0.05	<2	7.12	0.27	0.006	26	200	0.05	3	0.58	12.55	0.031	7.05	0.596
L7000E 2700N	0.043	15350	<0.1	<0.05	<2	7.93	0.18	0.006	7	150	0.05	2.84	1.66	22.9	0.04	5.43	0.743
L7000E 2800N	0.043	504	0.1	<0.05	<2	10.95	<0.05	<0.005	2	2820	0.04	0.118	0.13	0.38	0.016	0.99	0.013
L7000E 2900N	0.029	31200	0.1	<0.05	<2	5.67	0.26	<0.005	19	110	0.04	4.12	0.55	32.3	0.052	7.99	0.985
L7000E 3000N	0.031	17600	0.1	<0.05	<2	5.87	0.14	<0.005	43	560	0.05	2.77	0.47	21.9	0.034	7.16	0.573
L7000E 3100N	0.176	11600	0.1	<0.05	<2	9.27	0.15	<0.005	22	260	0.1	3.67	0.56	12.1	0.013	9.11	0.637
L7000E 3200N	0.006	9820	0.4	<0.05	<2	7.87	0.13	<0.005	5	570	0.03	4.15	2.52	3.72	0.032	24.7	0.825
L7000E 3300N	0.024	10000	0.2	<0.05	<2	32.3	0.25	<0.005	8	1500	0.06	8.9	6.16	6.58	0.061	22.1	1.48
L7000E 3400N	0.02	4530	0.1	<0.05	<2	12.4	0.08	<0.005	9	430	0.04	2.08	6.5	9.67	0.051	5.6	0.499
L7000E 3500N	0.067	28500	0.1	<0.05	<2	9.51	0.32	<0.005	54	110	0.04	4.51	4.69	17	0.016	8.13	1.365
L7000E 3700N	0.031	29900	0.1	<0.05	<2	9.18	0.3	0.005	49	280	0.06	4.94	2.29	22.4	0.012	11.35	1.285
L7000E 3800N	0.04	1640	<0.1	<0.05	<2	12.2	<0.05	<0.005	2	4480	0.06	0.355	0.8	0.94	0.011	2.99	0.053
L7000E 3900N	0.019	16700	0.1	<0.05	<2	66.2	0.18	0.006	37	190	0.08	4.19	5.74	27.7	0.028	17	0.932
L7000E 4000N	0.048	23600	0.1	<0.05	<2	95.1	0.47	<0.005	42	200	0.1	7.8	5.2	20.3	0.049	13.65	2.29
L7000E 4100N	0.04	17100	0.5	<0.05	<2	41.8	0.34	0.013	13	280	0.11	6.96	4.1	24.4	0.209	13.35	1.28
L7000E 4200N	0.056	43600	0.1	<0.05	3	4.65	0.47	<0.005	15	130	0.04	6.37	0.62	26.1	0.043	6.82	1.935
L7000E 4200ND	0.058	43100	0.1	<0.05	3	4.73	0.56	<0.005	25	120	0.04	7.26	0.71	26.3	0.044	7.31	2.22
L7000E 4300N	0.035	1110	<0.1	<0.05	4	22.7	<0.05	<0.005	4	11200	0.14	0.453	0.33	0.8	0.023	1.13	0.041

Appendix E.2: Certificates of Analysis

(Drill Core Samples)

VA05102319 - Finalized
CLIENT : EIA - Equity Engineering Ltd.
# of Samples : 14
DATE RECEIVED : 2005-11-23 DATE FINALIZED : 2005-11-29
PROJECT : Hushamu
CERTIFICATE COMMENTS :
PO NUMBER : LCC05-01

	Au-AA25	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
SAMPLE	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	V	Zn
DESCRIPTION	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
N336401	0.17	1	5.26	760	3300	<10	<20	2.14	<10	10	120	70	3.29	1.6	0.91	930	10	0.33	50	200	0.4	450	230	0.27	130	260
N336402	0.01	<1	8.16	<50	500	<10	<20	4.73	<10	20	10	130	4.39	0.8	1.72	1270	<10	2.7	10	<20	0.5	<50	440	0.35	120	70
N336403	<0.01	1	8.49	<50	700	<10	<20	5.19	<10	10	20	<10	4.65	1.1	1.88	1290	<10	2.61	<10	<20	0.3	<50	450	0.39	130	70
N336404	0.01	1	8.17	<50	800	<10	<20	6.05	<10	10	10	10	5.08	1.8	1.72	1560	<10	0.76	<10	<20	1.2	<50	340	0.37	140	80
N336406	<0.01	1	8.1	<50	600	<10	<20	4.52	<10	20	20	<10	4.31	1.8	1.59	970	<10	1.75	<10	<20	0.6	<50	380	0.35	140	60
N336407	0.01	1	8.21	<50	400	<10	<20	5.43	<10	20	20	10	4.78	1.1	1.78	1010	<10	2.19	10	<20	0.3	<50	300	0.38	160	50
N336408	<0.01	<1	8.31	<50	900	<10	<20	5.26	<10	20	50	130	5.41	2.7	1.96	1260	<10	1.89	10	<20	1.5	<50	460	0.42	190	70
N336409	<0.01	<1	0.06	<50	<100	<10	<20	<0.05	<10	<10	<10	<10	<0.05	<0.1	<0.05	<10	<10	<0.05	<10	<20	<0.1	<50	<10	<0.05	<10	<20
N336410	0.01	1	7.77	<50	600	<10	<20	4.79	<10	20	50	50	4.58	1.5	2.12	1040	<10	2.33	10	<20	0.2	<50	430	0.38	160	70
N336411	<0.01	1	7.51	<50	700	<10	<20	3.96	<10	20	50	40	4.54	1.9	2.16	1080	<10	2.62	10	<20	0.2	<50	440	0.39	160	70
N336412	<0.01	<1	7.77	<50	700	<10	<20	4.08	<10	20	50	30	4.67	1.9	2.16	1110	<10	2.85	20	<20	0.1	<50	470	0.39	160	70
N336414	<0.01	<1	8.03	<50	300	<10	<20	6.3	<10	30	70	40	5.21	0.9	2.72	1100	<10	1.85	20	<20	0.1	<50	360	0.43	210	70
N336416	0.05	<1	7.47	<50	300	<10	<20	6.05	<10	20	100	40	5.51	0.8	2.85	1220	<10	1.45	10	<20	0.2	<50	330	0.45	220	80
N336417	0.01	<1	7.7	<50	300	<10	<20	5.89	<10	30	90	40	5.49	0.9	2.9	1190	<10	1.74	20	<20	0.2	<50	350	0.45	210	70

VA05104840 - Finalized
CLIENT : EIA - Equity Engineering Ltd.
# of Samples : 39
DATE RECEIVED : 2005-11-30 DATE FINALIZED : 2005-12-09
PROJECT : Hushamu
CERTIFICATE COMMENTS :
PO NUMBER : LCC05-01

	Au-AA25	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
SAMPLE	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	V	Zn
DESCRIPTION	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
N336418	<0.01	<1	8.49	<50	300	<10	<20	4.56	<10	20	10	100	7.25	1.6	2.18	1080	10	0.7	20	30	3.3	<50	760	0.58	210	60
N336419	<0.01	1	8.42	<50	500	<10	<20	1.95	<10	30	10	40	8.67	2.6	1.18	370	10	0.2	10	<20	9.3	<50	160	0.48	240	60
N336420	0.01	1	7.24	<50	200	<10	<20	1.61	<10	20	10	20	12.15	2.4	0.82	280	30	0.11	10	<20	13.6	<50	80	0.32	180	40
N336421	<0.01	<1	8.9	<50	300	<10	<20	3.99	<10	20	<10	70	7.42	1.3	1.98	1180	<10	0.91	10	<20	4.5	<50	400	0.56	260	70
N336422	<0.01	<1	9.19	<50	100	<10	<20	5.23	<10	30	30	80	7.62	0.5	2.12	1390	<10	1.84	30	<20	3.7	<50	590	0.58	280	80
N336423	<0.01	<1	8.64	<50	200	<10	<20	4.7	<10	30	40	740	7.49	0.7	2.22	940	<10	1.24	30	<20	5.7	<50	550	0.52	260	70
N336424	0.02	43	4.48	50	600	<10	<20	1.12	<10	<10	20	4770	1.57	2.2	0.13	240	210	1.16	<10	60	0.7	100	320	0.06	30	60
N336425	<0.01	<1	8.38	<50	200	<10	<20	4.65	<10	20	10	120	6.93	0.9	1.45	580	<10	1.4	10	<20	6.4	<50	540	0.43	180	60
N336426	<0.01	<1	8.93	<50	100	<10	<20	4.85	<10	20	10	90	6.22	0.3	1.53	790	<10	2.32	20	<20	3.9	<50	610	0.51	210	50
N336427	<0.01	<1	8.58	<50	200	<10	<20	4.58	<10	20	10	90	6.22	1	1.58	710	<10	1.75	10	<20	4.1	<50	460	0.5	200	50
N336428	<0.01	<1	8.9	<50	300	<10	<20	4.16	<10	20	10	40	7.43	1.2	1.92	820	<10	0.78	<10	<20	5.8	<50	360	0.5	210	50
N336429	<0.01	<1	9.23	<50	200	<10	<20	4.93	<10	20	10	90	6.83	0.4	2.56	920	<10	1.18	10	<20	1	<50	490	0.52	200	40
N336430	0.01	<1	8.68	<50	400	<10	<20	2.83	<10	20	10	70	7.37	1.4	2.82	910	<10	0.71	10	30	4.2	<50	440	0.49	200	80
N336431	<0.01	<1	9.66	<50	400	<10	<20	3.37	<10	20	10	30	7.14	0.7	2.34	750	<10	1.72	10	<20	2.4	<50	610	0.53	200	40
N336432	<0.01	<1	9.64	<50	200	<10	<20	4.12	<10	20	10	20	7.39	0.4	2.34	770	<10	1.69	10	<20	0.5	<50	510	0.53	210	40
N336433	0.01	<1	9.86	<50	300	<10	<20	3.87	<10	20	10	30	6.51	0.6	2.52	900	<10	1.71	10	<20	0.8	<50	580	0.53	210	40
N336434	0.01	<1	8.27	<50	600	<10	<20	1.81	10	20	10	70	9.27	1.7	1.66	430	10	0.67	10	<20	7.8	<50	230	0.35	160	670
N336435	0.01	1	8.34	<50	300	<10	<20	1.48	<10	20	10	10	9.01	2.8	1	360	10	0.15	10	<20	9.7	<50	170	0.34	200	110
N336436	0.01	<1	8.4	<50	300	<10	<20	1.35	<10	30	30	80	9.32	2.6	1.35	410	10	0.2	10	<20	9.8	<50	160	0.31	190	130
N336437	<0.01	<1	0.05	<50	<100	<10	<20	<0.05	<10	<10	<10	<10	<0.05	<0.1	<0.05	<10	<10	<0.05	<10	<20	<0.1	<50	10	<0.05	<10	<20
N336438	<0.01	<1	8.22	<50	400	<10	<20	1.35	<10	20	10	30	7.84	2.6	1.28	300	10	0.2	10	<20	8.4	<50	90	0.34	190	40
N336439	0.01	<1	8.73	60	300	<10	<20	3.77	<10	20	10	80	7.76	0.8	1.38	490	<10	1.48	30	<20	6.1	<50	560	0.47	240	40
N336440	<0.01	<1	9.32	<50	200	<10	<20	5.16	<10	20	<10	50	6.94	0.2	2.24	1160	<10	1.92	<10	<20	2	<50	660	0.55	260	50
N336441	0.01	<1	7.76	<50	400	<10	<20	3.78	<10	30	10	100	9.73	1.4	1.08	490	10	0.67	10	<20	10	<50	250	0.42	190	80
N336442	<0.01	<1	8.77	<50	200	<10	<20	3.36	<10	20	10	70	5.89	0.5	2.19	770	<10	1.93	10	20	1.6	<50	460	0.5	200	50
N336443	0.01	<1	9.05	<50	400	<10	<20	3.92	<10	10	20	40	6.94	0.5	2.06	1070	<10	2.31	20	<20	0.3	<50	720	0.53	220	60
N336444	0.01	<1	9.22	<50	400	<10	<20	2.3	<10	30	30	70	8.2	2.4	1.1	340	<10	0.69	10	20	7.9	<50	320	0.4	230	170
N336445	0.01	<1	8.86	<50	400	<10	<20	2.23	<10	30	30	80	9.47	2.1	1.13	370	<10	0.79	<10	<20	9.6	<50	290	0.39	210	220
N336446	<0.01	<1	9.29	<50	400	<10	<20	2.28	<10	30	30	20	7.3	2.6	1.44	270	<10	0.56	10	<20	7.1	<50	230	0.39	220	40
N336447	0.01	<1	8.82	<50	300	<10	<20	3.33	10	20	40	90	6.96	1.3	2.01	410	<10	1.2	10	20	6.1	<50	580	0.4	230	520
N336448	0.01	<1	9.09	<50	100	<10	<20	4.46	<10	30	30	60	6.56	0.7	2.28	700	<10	1.57	30	<20	3.9	<50	490	0.48	250	50
N336449	0.01	<1	8.86	<50	300	<10	<20	3.33	<10	40	20	90	7.86	1.9	1.94	550	<10	0.53	30	20	6.3	<50	180	0.4	240	60
N336450	0.02	1	6.75	<50	300	<10	<20	1	<10	50	130	280	8.39	2.5	0.56	280	30	0.1	50	<20	8	<50	50	0.25	200	30
N336451	0.01	<1	8.76	<50	700	<10	<20	2.25	<10	30	40	40	7.41	2.4	1.17	750	10	0.47	40	<20	6	<50	170	0.46	230	40
N336452	<0.01	<1	8.79	<50	400	<10	<20	2.84	<10	30	30	50	7.85	1.9	2.36	1670	10	0.25	30	<20	4.6	<50	110	0.48	250	140
N336453	0.01	<1	7.81	<50	300	<10	<20	1.79	<10	20	40	40	9.59	2.5	1.18	690	20	0.08	30	<20	9	<50	60	0.4	230	60
N336454	0.01	<1	7.8	<50	500	<10	<20	0.6	<10	20	20	40	7.47	1.8	0.8	270	<10	0.07	30	<20	7.2	<50	40	0.24	180	30
N336455	0.01	<1	8.68	<50	600	<10	<20	1.76	<10	30	40	100	8.9	2.4	2.12	920	10	0.26	20	<20	7.5	<50	100	0.42	270	110
N336456	0.01	<1	8.72	<50	600	<10	<20	1.91	<10	40	30	140	8.66	2.2	2.25	1000	10	0.38	20	<20	6.4	<50	140	0.42	240	100

VA05104840 - Finalized
CLIENT : EIA - Equity Engineering Ltd.
# of Samples : 39
DATE RECEIVED : 2005-11-30 DATE FINALIZED : 2005-12-09
PROJECT : Hushamu
CERTIFICATE COMMENTS :
PO NUMBER : LCC05-01

	Au-AA25	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
SAMPLE	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	V	Zn
DESCRIPTION	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
N336418	<0.01	<1	8.49	<50	300	<10	<20	4.56	<10	20	10	100	7.25	1.6	2.18	1080	10	0.7	20	30	3.3	<50	760	0.58	210	60
N336419	<0.01	1	8.42	<50	500	<10	<20	1.95	<10	30	10	40	8.67	2.6	1.18	370	10	0.2	10	<20	9.3	<50	160	0.48	240	60
N336420	0.01	1	7.24	<50	200	<10	<20	1.61	<10	20	10	20	12.15	2.4	0.82	280	30	0.11	10	<20	13.6	<50	80	0.32	180	40
N336421	<0.01	<1	8.9	<50	300	<10	<20	3.99	<10	20	<10	70	7.42	1.3	1.98	1180	<10	0.91	10	<20	4.5	<50	400	0.56	260	70
N336422	<0.01	<1	9.19	<50	100	<10	<20	5.23	<10	30	30	80	7.62	0.5	2.12	1390	<10	1.84	30	<20	3.7	<50	590	0.58	280	80
N336423	<0.01	<1	8.64	<50	200	<10	<20	4.7	<10	30	40	740	7.49	0.7	2.22	940	<10	1.24	30	<20	5.7	<50	550	0.52	260	70
N336424	0.02	43	4.48	50	600	<10	<20	1.12	<10	<10	20	4770	1.57	2.2	0.13	240	210	1.16	<10	60	0.7	100	320	0.06	30	60
N336425	<0.01	<1	8.38	<50	200	<10	<20	4.65	<10	20	10	120	6.93	0.9	1.45	580	<10	1.4	10	<20	6.4	<50	540	0.43	180	60
N336426	<0.01	<1	8.93	<50	100	<10	<20	4.85	<10	20	10	90	6.22	0.3	1.53	790	<10	2.32	20	<20	3.9	<50	610	0.51	210	50
N336427	<0.01	<1	8.58	<50	200	<10	<20	4.58	<10	20	10	90	6.22	1	1.58	710	<10	1.75	10	<20	4.1	<50	460	0.5	200	50
N336428	<0.01	<1	8.9	<50	300	<10	<20	4.16	<10	20	10	40	7.43	1.2	1.92	820	<10	0.78	<10	<20	5.8	<50	360	0.5	210	50
N336429	<0.01	<1	9.23	<50	200	<10	<20	4.93	<10	20	10	90	6.83	0.4	2.56	920	<10	1.18	10	<20	1	<50	490	0.52	200	40
N336430	0.01	<1	8.68	<50	400	<10	<20	2.83	<10	20	10	70	7.37	1.4	2.82	910	<10	0.71	10	30	4.2	<50	440	0.49	200	80
N336431	<0.01	<1	9.66	<50	400	<10	<20	3.37	<10	20	10	30	7.14	0.7	2.34	750	<10	1.72	10	<20	2.4	<50	610	0.53	200	40
N336432	<0.01	<1	9.64	<50	200	<10	<20	4.12	<10	20	10	20	7.39	0.4	2.34	770	<10	1.69	10	<20	0.5	<50	510	0.53	210	40
N336433	0.01	<1	9.86	<50	300	<10	<20	3.87	<10	20	10	30	6.51	0.6	2.52	900	<10	1.71	10	<20	0.8	<50	580	0.53	210	40
N336434	0.01	<1	8.27	<50	600	<10	<20	1.81	10	20	10	70	9.27	1.7	1.66	430	10	0.67	10	<20	7.8	<50	230	0.35	160	670
N336435	0.01	1	8.34	<50	300	<10	<20	1.48	<10	20	10	10	9.01	2.8	1	360	10	0.15	10	<20	9.7	<50	170	0.34	200	110
N336436	0.01	<1	8.4	<50	300	<10	<20	1.35	<10	30	30	80	9.32	2.6	1.35	410	10	0.2	10	<20	9.8	<50	160	0.31	190	130
N336437	<0.01	<1	0.05	<50	<100	<10	<20	<0.05	<10	<10	<10	<10	<0.05	<0.1	<0.05	<10	<10	<0.05	<10	<20	<0.1	<50	10	<0.05	<10	<20
N336438	<0.01	<1	8.22	<50	400	<10	<20	1.35	<10	20	10	30	7.84	2.6	1.28	300	10	0.2	10	<20	8.4	<50	90	0.34	190	40
N336439	0.01	<1	8.73	60	300	<10	<20	3.77	<10	20	10	80	7.76	0.8	1.38	490	<10	1.48	30	<20	6.1	<50	560	0.47	240	40
N336440	<0.01	<1	9.32	<50	200	<10	<20	5.16	<10	20	<10	50	6.94	0.2	2.24	1160	<10	1.92	<10	<20	2	<50	660	0.55	260	50
N336441	0.01	<1	7.76	<50	400	<10	<20	3.78	<10	30	10	100	9.73	1.4	1.08	490	10	0.67	10	<20	10	<50	250	0.42	190	80
N336442	<0.01	<1	8.77	<50	200	<10	<20	3.36	<10	20	10	70	5.89	0.5	2.19	770	<10	1.93	10	20	1.6	<50	460	0.5	200	50
N336443	0.01	<1	9.05	<50	400	<10	<20	3.92	<10	10	20	40	6.94	0.5	2.06	1070	<10	2.31	20	<20	0.3	<50	720	0.53	220	60
N336444	0.01	<1	9.22	<50	400	<10	<20	2.3	<10	30	30	70	8.2	2.4	1.1	340	<10	0.69	10	20	7.9	<50	320	0.4	230	170
N336445	0.01	<1	8.86	<50	400	<10	<20	2.23	<10	30	30	80	9.47	2.1	1.13	370	<10	0.79	<10	<20	9.6	<50	290	0.39	210	220
N336446	<0.01	<1	9.29	<50	400	<10	<20	2.28	<10	30	30	20	7.3	2.6	1.44	270	<10	0.56	10	<20	7.1	<50	230	0.39	220	40
N336447	0.01	<1	8.82	<50	300	<10	<20	3.33	10	20	40	90	6.96	1.3	2.01	410	<10	1.2	10	20	6.1	<50	580	0.4	230	520
N336448	0.01	<1	9.09	<50	100	<10	<20	4.46	<10	30	30	60	6.56	0.7	2.28	700	<10	1.57	30	<20	3.9	<50	490	0.48	250	50
N336449	0.01	<1	8.86	<50	300	<10	<20	3.33	<10	40	20	90	7.86	1.9	1.94	550	<10	0.53	30	20	6.3	<50	180	0.4	240	60
N336450	0.02	1	6.75	<50	300	<10	<20	1	<10	50	130	280	8.39	2.5	0.56	280	30	0.1	50	<20	8	<50	50	0.25	200	30
N336451	0.01	<1	8.76	<50	700	<10	<20	2.25	<10	30	40	40	7.41	2.4	1.17	750	10	0.47	40	<20	6	<50	170	0.46	230	40
N336452	<0.01	<1	8.79	<50	400	<10	<20	2.84	<10	30	30	50	7.85	1.9	2.36	1670	10	0.25	30	<20	4.6	<50	110	0.48	250	140
N336453	0.01	<1	7.81	<50	300	<10	<20	1.79	<10	20	40	40	9.59	2.5	1.18	690	20	0.08	30	<20	9	<50	60	0.4	230	60
N336454	0.01	<1	7.8	<50	500	<10	<20	0.6	<10	20	20	40	7.47	1.8	0.8	270	<10	0.07	30	<20	7.2	<50	40	0.24	180	30
N336455	0.01	<1	8.68	<50	600	<10	<20	1.76	<10	30	40	100	8.9	2.4	2.12	920	10	0.26	20	<20	7.5	<50	100	0.42	270	110
N336456	0.01	<1	8.72	<50	600	<10	<20	1.91	<10	40	30	140	8.66	2.2	2.25	1000	10	0.38	20	<20	6.4	<50	140	0.42	240	100

Appendix F: Quality Control / Quality Assurance

QUALITY CONTROL / QUALITY ASSURANCE

I Chain of Custody

All samples were packed in rice sacks and sealed with uniquely-numbered non-resealable security straps. Rice sacks were trucked to the Greyhound station in Port Hardy and then transported via bus to ALS Chemex Labs in North Vancouver. ALS Chemex reported that all bags were received in good condition, with all security straps intact, and with no evidence of tampering.

II Blank Samples

Blanks are samples which are known to be barren of mineralization and are inserted into the sample stream to determine whether contamination has occurred after sample collection.

a. Drill Core Blanks

Two blank samples (one every 40 samples) were inserted into the Rupert drill core sample sequence during the 2005 drill program. Silica sand of the type used in swimming pool filters was used for the blank material. The two samples returned below detection values for gold, arsenic, copper, molybdenum, lead, zinc and most other elements. Thus, there is no evidence of contamination.

III Lab Duplicate Analysis

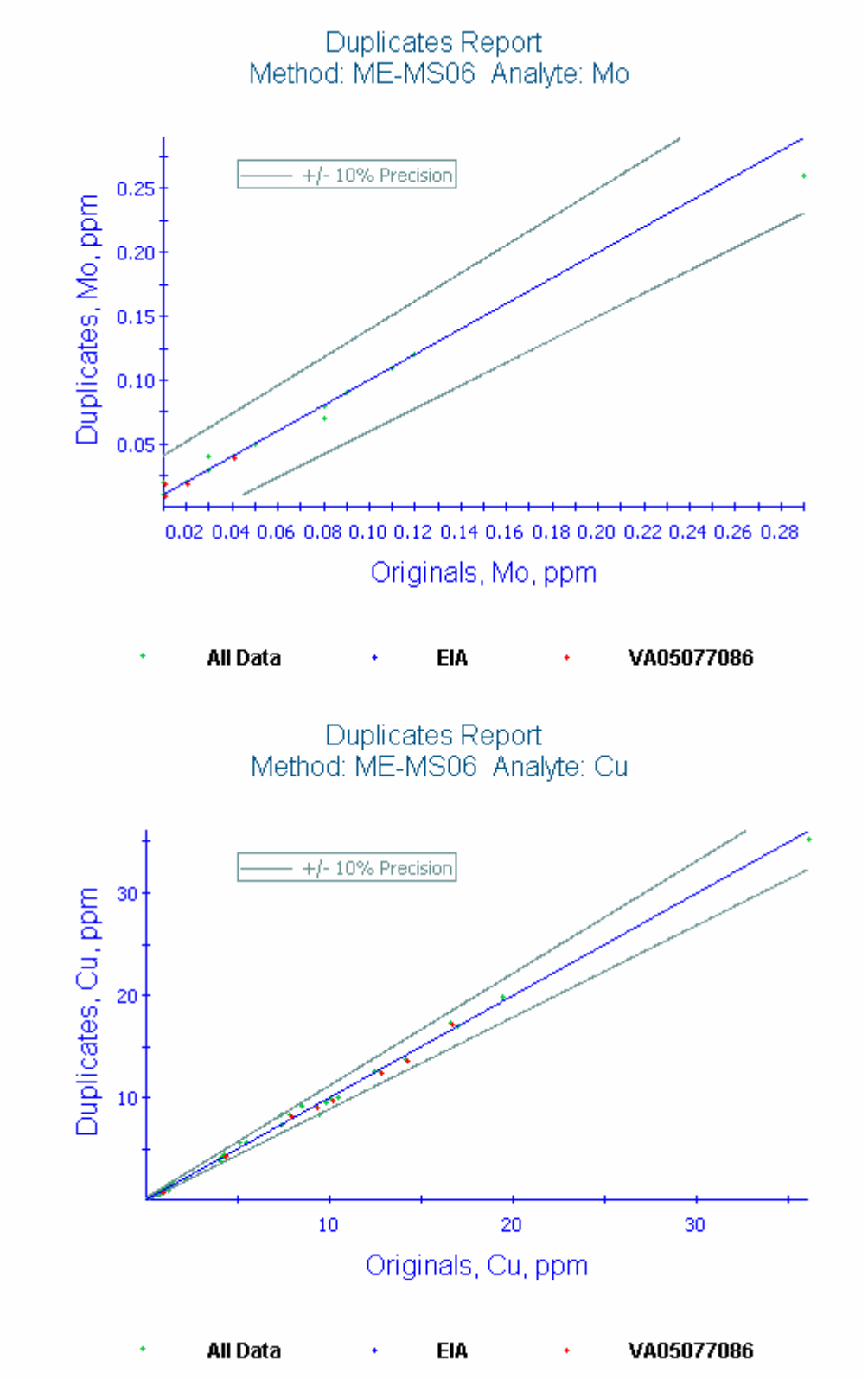
Lab duplicates are separate analyses of two portions of a prepared sample. They are used to measure the reproducibility of laboratory analyses. ALS Chemex Labs conducts duplicate analyses of random samples at varying frequencies depending on the particular sample preparation code. For example, the ICP analysis that was conducted on core samples (code ICP61a) is run in batches of 40 samples–one of which will be duplicated. Other analyses, such as fire assays of Au, are run in larger batches with more frequent duplicates.

a. Soil Samples

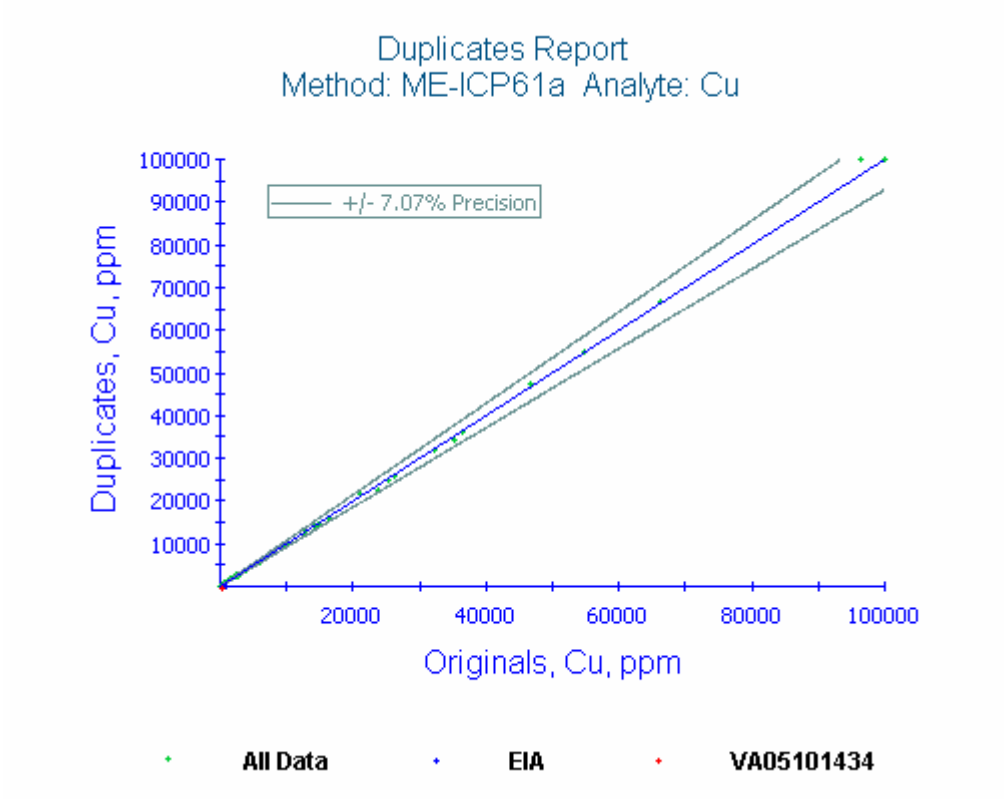
Charts 1 and 2 show ALS Chemex duplicate data for the ME-MS06 analytical code (hot hydroxylamine leach soil analysis) for the a five week period. The Rupert samples were analysed in the middle of this period. All analyses fall within a 10% precision envelop.

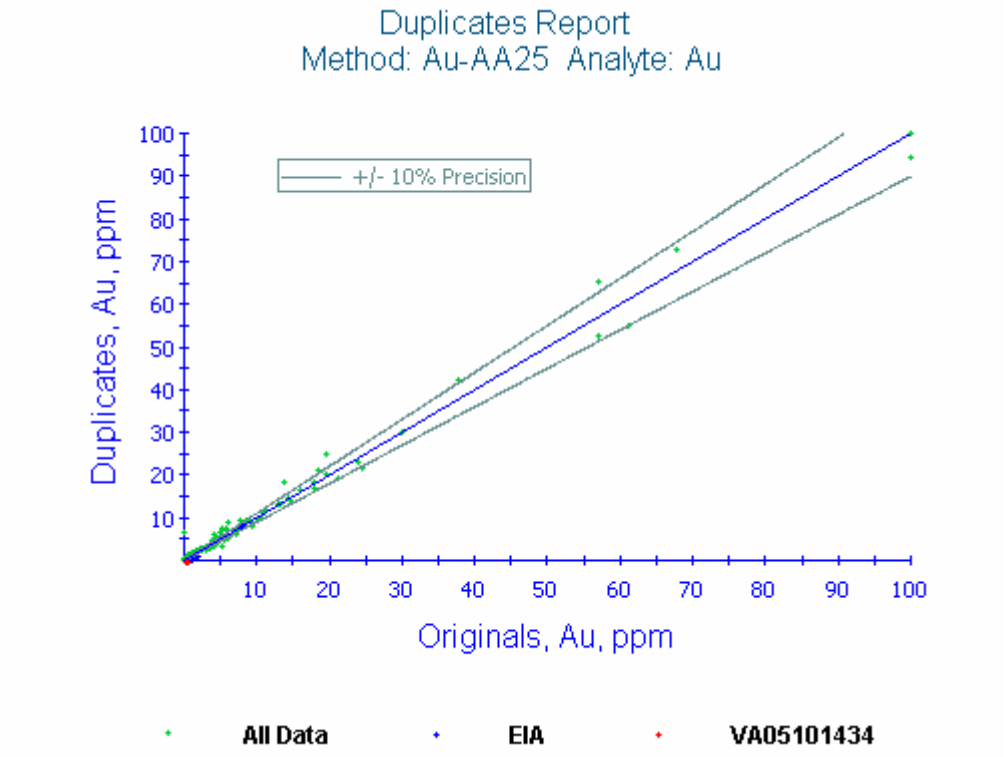
b. Drill Core Samples

Examination of Chemex's duplicates show that copper and molybdenum analyses neatly fall within the 10% precision envelop. Chart 3 shows the data for Cu but similar results occur for other metals of interest. Gold, by contrast is not reproducible at 10% precision, particularly at lower values. Nonetheless, the levels of precision shown by the charts are consistent with long-term laboratory performance.



Charts 1-2: Soil lab duplicates. Graphs from ALS Chemex's internal QA/QC program downloaded via the online Webtrieve system for Mo and Cu (ME-MS06 method). These data comprse all Chemex internal duplicate samples analyses during the time period from September 18 to October 24 during which the Rupert soil samples were analysed.





Charts 3-4: Core lab duplicates. Graphs from ALS Chemex's internal QA/QC program downloaded via the online Webtrieve system for Cu (ME-MS06 method) and Au (Au-AA23 method). These data comprise all Chemex internal duplicate samples analyses during the time period from November 23 to December 20, 2005 – the same period during which the Rupert core samples were analysed.

IV Field Duplicate Samples

Field duplicates are collected and analysed as two separate samples from the same material. They are used to measure the reproducibility of sampling, which includes both laboratory variation and sample variation. Soil duplicates involve bagging two samples in the field from the same sight and core duplicates involve quartering of drill core.

a. Soil Samples

Seven field duplicate soil samples were collected (approximately every 20th sample) during the 2005 program and submitted for analysis.

For the selective leach method, the elements of interest exhibit variable reproducibility. Most elements, including Mo, Pb, As, Zn and Ag are reproducible at 40% whereas Cu is reproducible at 80%. All Au samples returned results below detection limits. These data are typical of soil sample precision levels, although Cu is typically more precise than 80%.

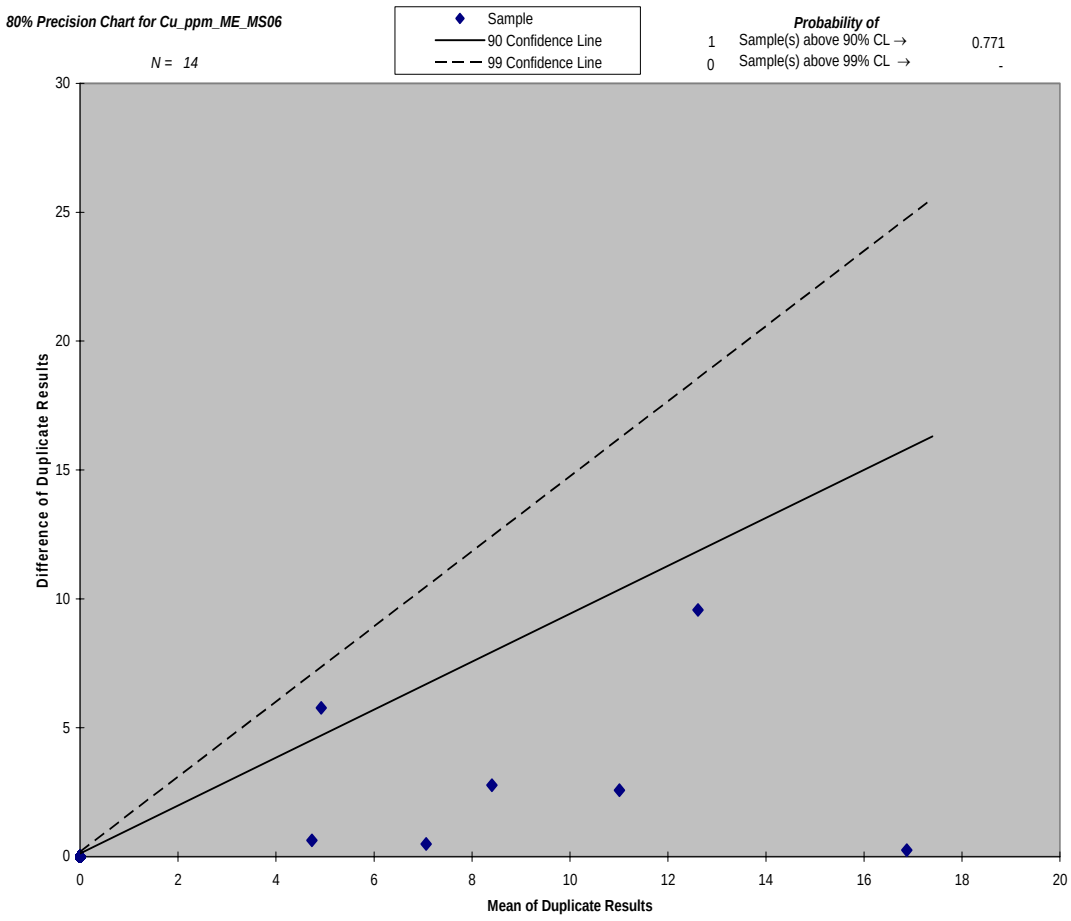


Chart 5: Graph illustrating Thompson and Howarth estimation of analytical precision, method two. The data points represent duplicate pairs, the solid line represents the 90th percentile of the population, and the dashed line the 99th percentile of the population (n=7 duplicate pairs). In this instance, the precision was set at 80%, and at this level within the given dataset, 1 sample falls above the 90th percentile line. From the binomial probability it can be read that at 80% precision, the probability of 1 sample out of 25 falling above the 90th percentile is 77.1%.

b. Drill Core Samples

Two duplicate sample pairs were collected during the 2005 Rupert drill campaign (about one duplicate per 40 samples. The two pairs generally showed consistency of analyses and are reproducible at about 40% precision for the main elements of interest.

V Standard Samples

Three separate commercially available Cu or Au standards were inserted into the Rupert sample sequence at a frequency of about one standard per 30 samples. This resulted in three standard samples (one of each standard used). All returned analyses were within 10% of the accepted value for Cu and Au.

VI Conclusions

- There is no evidence of tampering with the samples between collection and laboratory.
- Laboratory preparation and analysis is reproducible at varied levels of precision, however it is considered that all elements attained an acceptable level of precision for soil and core samples.
- Silica sand is suitably devoid of metals and served as good blank material.
- Consistently low values for all metals of interest in blank analyses indicate that contamination of core or soil samples did not take place in the field, or in the lab.

Appendix G: Compact Disc

Report text, geochemical and drill databases, geophysical files, drafting and plot files, photographs

Appendix H: Geologist's Certificates

GEOLOGIST'S CERTIFICATE

I, Darcy Baker, of 1003/1127 Barclay Street, Vancouver, in the province of British Columbia, DO HEREBY CERTIFY:

THAT I am a Geoscientist employed by Equity Engineering Ltd., with offices at #700-700 West Pender Street in the City of Vancouver, B.C., in the Province of British Columbia.

THAT I am a graduate of Dalhousie University (1997) with an Honours Bachelor of Science degree in Geology, and am a graduate of the University of Newcastle, Australia (2003) with a Doctor of Philosophy degree in Geology, and I have practiced my profession continuously since 1997.

THAT I am presently a Consulting Geologist and have been so since May 2003.

THAT this report is based on work carried out by Equity from February to December, 2005, and under my direction from August to December, 2005, on publicly available reports and on historical data provided to me by Lumina. I have examined the property in the field.

Dated at Vancouver, British Columbia, this 23rd day of May, 2006.

Darcy Baker, Ph.D.