TOPOGRAPHIC, GEOLOGIC MAPPING
PROSPECTING & SAMPLING REPORT

on the

JAY 1 to JAY 7 CLAIMS &
JAY 1, JAY 8, 9, 10 & 11 CLAIMS

NTS Map Sheet 092G071

by

D.K. BRAGG
OWNER-OPERATOR-AUTHOR
Surrey, B.C.

March 18 2013

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INTRODUCTION & SUMMARY

D.K. Bragg currently has tenure to the following claims in the northern part of the Sunshine Coast, bounded on the south by Sipiyus Park, on the west by Sakinaw and Ruby Lakes, on the north by Agamemnon Channel, and on the east by Sechelt Inlet.

JI 1 to JI 1 to 7 Claims, Tenure Nos. 583153, 583154, 583156, 683158, 583159, 583160 and 583162; the Jay 1 and the Jay 8, 9, 10, and 11, Tenure Nos. 787762, 787782, 787802, 787822, and 787842, for a total of 4407.2 hectares. Some of this area has been held since 2005.

The first reported work done in this area was in 1913 with nothing much more done until 1961. The greatest amount of work was done during the late 1970's and early 1980's (see Bibliography). Most of the work was concentrated between North Lake where the NL Vein was reported to carry up to eight ounces Au with some silver and copper from northward to the Beach Zone where assays ranged from one-half ounce to 5 oz per ton, Au with silver assays up to 5 oz per ton.

In 19165, Abcon Minerals Exploration shipped 106 tons of massive sulphide from the Beach Showing, and the Tacoma smelter reported the shipment contained 34 ounces of gold, 45 ounces of silver, and 170 pounds of copper.

LOCATION & ACCESSIBILITY

The JI 1 to 7, Jay 1, and Jay 8 to 11 that overlie most of the northeast end of the Sechelt Peninsula and is about 80 km northwest of Vancouver, B.C. These claims can be reached from Vancouver via ferry from Horseshoe Bay to Langdale, thence via Highway 101 to the Egmont turnoff south of Earl's Cove (see Figure 1).

The topography of the northern part of the claim block is generally low and rounded and less than 200 metres in elevation. South of North Lake and Waugh Lake, the elevations rise towards Mt. Hallowell at just over 1280 metres.

The area is typical West Coast rain forest of fir, cedar, hemlock, poplar, and alder in the lower elevations with spruce and balsam forests at higher elevations and north facing slopes.. In places there is a very dense understory or new growth after logging that can impede travel through the forest. The ground is covered for the most part by a dense mat of smaller plants and a very thick moss mat that covers most of the areas and much of the rock outcrops which requires much of this mat having to be cleaned off in order to see the outcrops.

Much of the area has been logged at different times, however many of the access roads have been either decommissioned or heavily overgrown. Still there are some accessible roads throughout the claim block.

The weather is typical West Coast rainforest but with a bit more than average of sunny days.

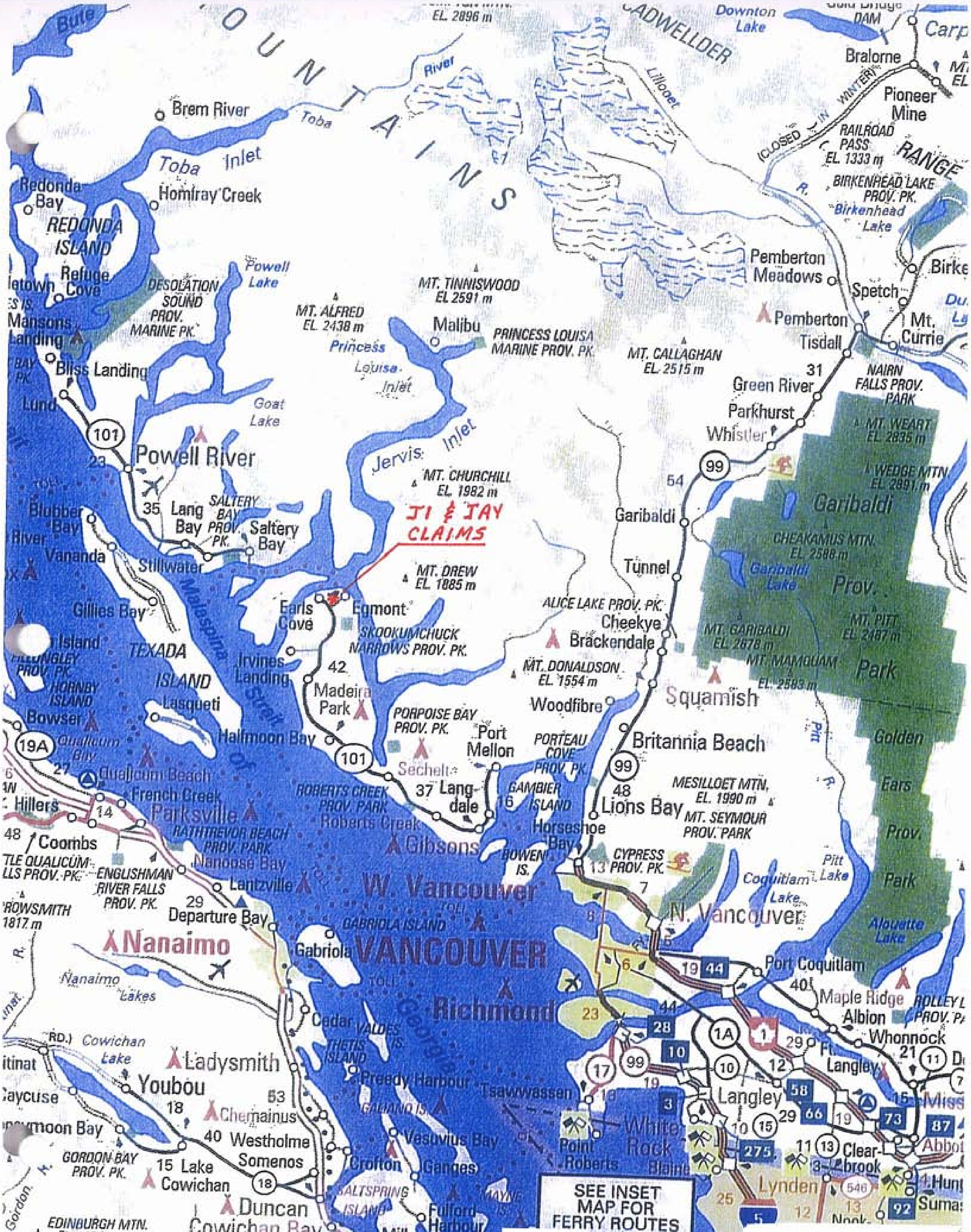

JI & JAY CLAIMS
MOUNTAINS
Toba Inlet
Brem River
Homfray Creek
Redonda Bay
REDONDA ISLAND
Refuge Cove
DESOLATION SOUND PROV. MARINE PK.
Powell Lake
Bliss Landing
Lund
Powell River
Goat Lake
Lang Bay
SALTERY BAY PROV. PK.
Saltery Bay
Blubber Bay
Vananda
Stillwater
Gillies Bay
TEXADA ISLAND
Lasqueti
Malaspina Strait
MT. ALFRED EL. 2438 m
MT. TINNISWOOD EL 2591 m
Malibu
Princess Louisa Inlet
PRINCESS LOUISA MARINE PROV. PK.
Jervis Inlet
MT. CHURCHILL EL. 1982 m
MT. DREW EL. 1885 m
Earls Cove
Egmont
SKOOKUMCHUCK NARROWS PROV. PK.
Irvines Landing
Madeira Park
Halfmoon Bay
PORPOISE BAY PROV. PK.
Sechelt
Port Mellon
Langdale
Roberts Creek
Gibsons
GAMBIER ISLAND
BOWEN IS.
MT. CALLAGHAN EL 2515 m
Pemberton Meadows
Pemberton
Spetch
Tisdall
Mt. Currie
Green River
NAIRN FALLS PROV. PARK
Parkhurst
Whistler
MT. WEART EL 2835 m
WEDGE MTN. EL 2891 m
Garibaldi
CHEAKAMUS MTN. EL 2588 m
Garibaldi Lake
Garibaldi Prov. Park
Tunnel
ALICE LAKE PROV. PK.
Cheekye
Brackendale
MT. GARIBALDI EL 2678 m
MT. PITT EL 2487 m
MT. MAMQUAM EL 2593 m
MT. DONALDSON EL 1554 m
Squamish
Woodfibre
Britannia Beach
PORTEAU COVE PROV. PK.
MESILLOET MTN. EL. 1990 m
MT. SEYMOUR PROV. PARK
Lions Bay
Horseshoe Bay
CYPRESS PROV. PK.
Golden Ears Prov. Park
Pitt Lake
Coquitlam Lake
Alouette Lake
N. Vancouver
W. Vancouver
VANCOUVER
Richmond
Port Coquitlam
Maple Ridge
Albion
Whonnock
Ft. Langley
Langley
Tsawwassen
Point Roberts
White Rock
Blaine
Lynden
Clearbrook
Abbotsford
Sumas
Bralorne
Pioneer Mine
RAILROAD PASS EL 1333 m
BIRKENHEAD LAKE PROV. PK.
Birkenhead Lake
Downton Lake
CADWELLDER RANGE
Bowser
Qualicum Beach
French Creek
Parksville
RATHTREVOR BEACH PROV. PARK
Coombs
Nanoose Bay
Lantzville
Departure Bay
Nanaimo
Nanaimo Lakes
Gabriola
GABRIOLA ISLAND
Cedar
VALDES IS.
THETIS ISLAND
Preedy Harbour
GALIANO IS.
Cowichan Lake
Ladysmith
Youbou
Chemainus
Westholme
Somenos
Crofton
Ganges
SALTSPRING ISLAND
Vesuvius Bay
Fulford Harbour
GORDON BAY PROV. PK.
Lake Cowichan
Duncan
Cowichan Bay
Mill Bay
Shawnigan Lake
EDINBURGH MTN. EL. 1134 m
MT. TODD
ENGLISHMAN RIVER FALLS PROV. PK.
SEE INSET MAP FOR FERRY ROUTES
Strait of Georgia

Fig 1

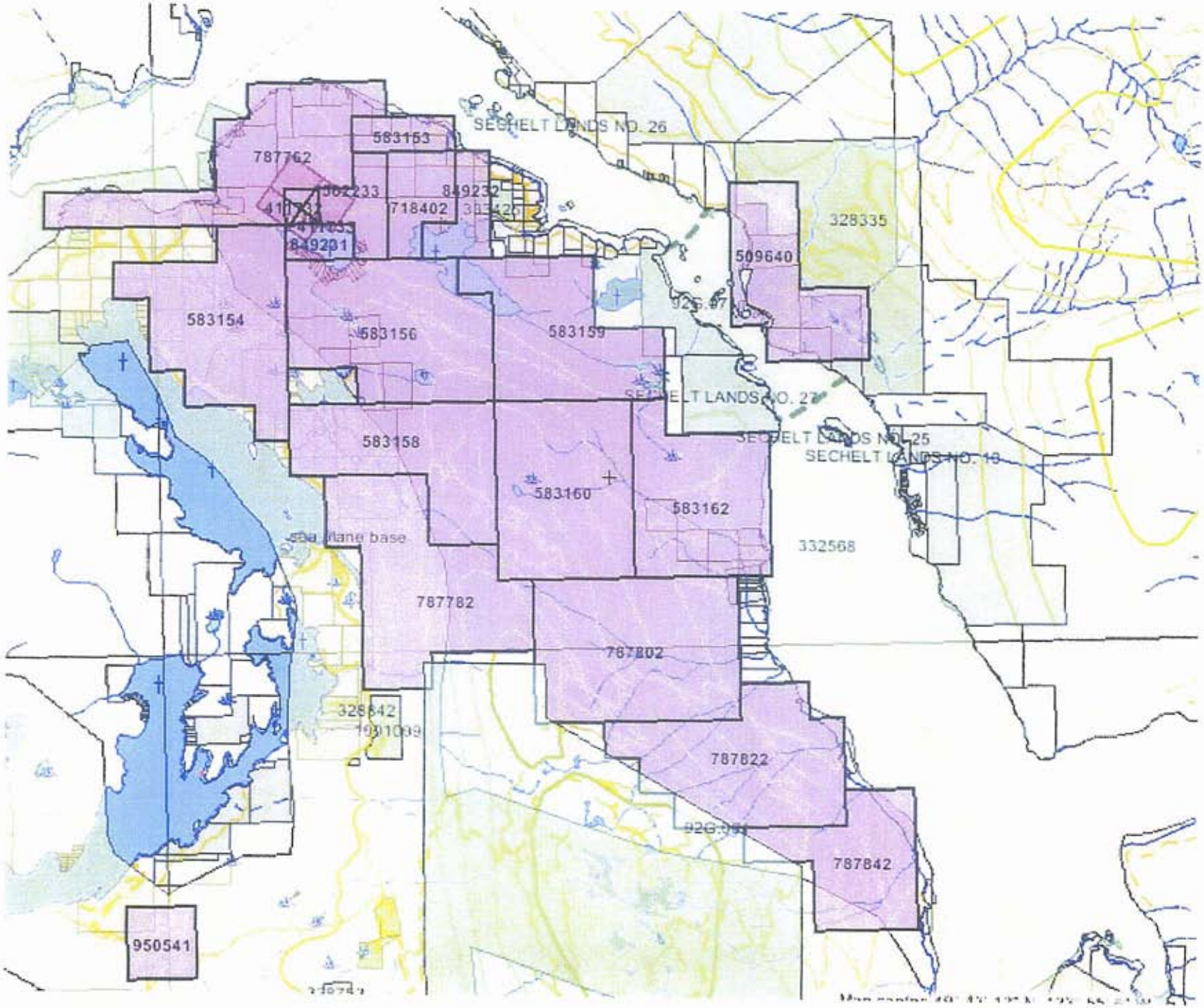

SECHELT LANDS NO. 26
583153
787762
718402
849232
849201
328335
509640
583154
583156
583159
583158
583160
583162
SECHELT LANDS NO. 25
SECHELT LANDS NO. 18
332568
787782
787802
787822
787842
950541

Fig 2

GEOLOGY & MINERALIZATION

The geology of the area has been well documented by others who have worked in the area in the past (see Bibliography).

The NL Vein is the most exposed and visible showing. Assays as high as 8.8 oz/ton Au and 10.6 oz/ton of Ag have been obtained from this showing but the writer suspects this may have been high-graded or concentrated.

In the Beach Zone, assays of showing were obtained that ranged from one-half ounce to 5 oz/ton Au with silver up to 5 oz/ton. The Beach Zone has been extensively culturally modified. These showings are very difficult to find.

In Assessment Report 14,736 Grove reports on the sampling of the DF Vein 1 stock work zone as follows:

> Two short trenches have cut across the main exposure of the new DF vein/stockwork zone. Sampling across 2 meters (6 feet) of the upper trench returned assays of up to 2.42 ounces Ag and 2.024 ounces gold per ton. A check 2 meter sample across the upper trench by a Canamax geologist gave 2.42 oz. Ag and 1.370 ounces gold/ton confirming the grade of this new zone which, like others on the property, comprises quartz-sulfide veins (trend 045°/60°W) in strongly altered granodiorite. Two core holes were drilled in an attempt to cut this new zone. Both intersected dike and mineralized granodiorite with anomalously high gold and silver values. The area aroung(sic) this new zone also requires extensive new stripping, trenching and sampling.

Grove also mentions the steep northwesterly fault pattern along with westerly-trending structures suggested by air photo interpretation. However, after eight years working in the area, it would appear that there is a more northeasterly trend to some of the faults or structures.

FIELD WORK & REPORT PREPARATION

On May 12, 2012, Don Bragg and Milton Mankowske mobilized from Surrey to Egmont to work on the JI and Jay Claims. The intent of this trip was to concentrate on the Beach Zone and the DF Vein to see if they could find some of the old workings that had been worked on during the late 1970's and early 1980's.

There was an attempt also to see of they could find in the field some of the faults and linear structures that had been mentioned in Greve's reports. Some of these had been identified over the past eight years by Bragg but there were the instances where the traces of these linear structures were not found in the field.

During the course of the field work, 23 soil samples were taken. Ten sample sites were taken to the northwest of and down slope from the FDF Vein. At each site, two samples were taken. One of the Bf horizon and one of the Ah horizon. This was done to test and see what the difference in analysis might be in this particular environment.

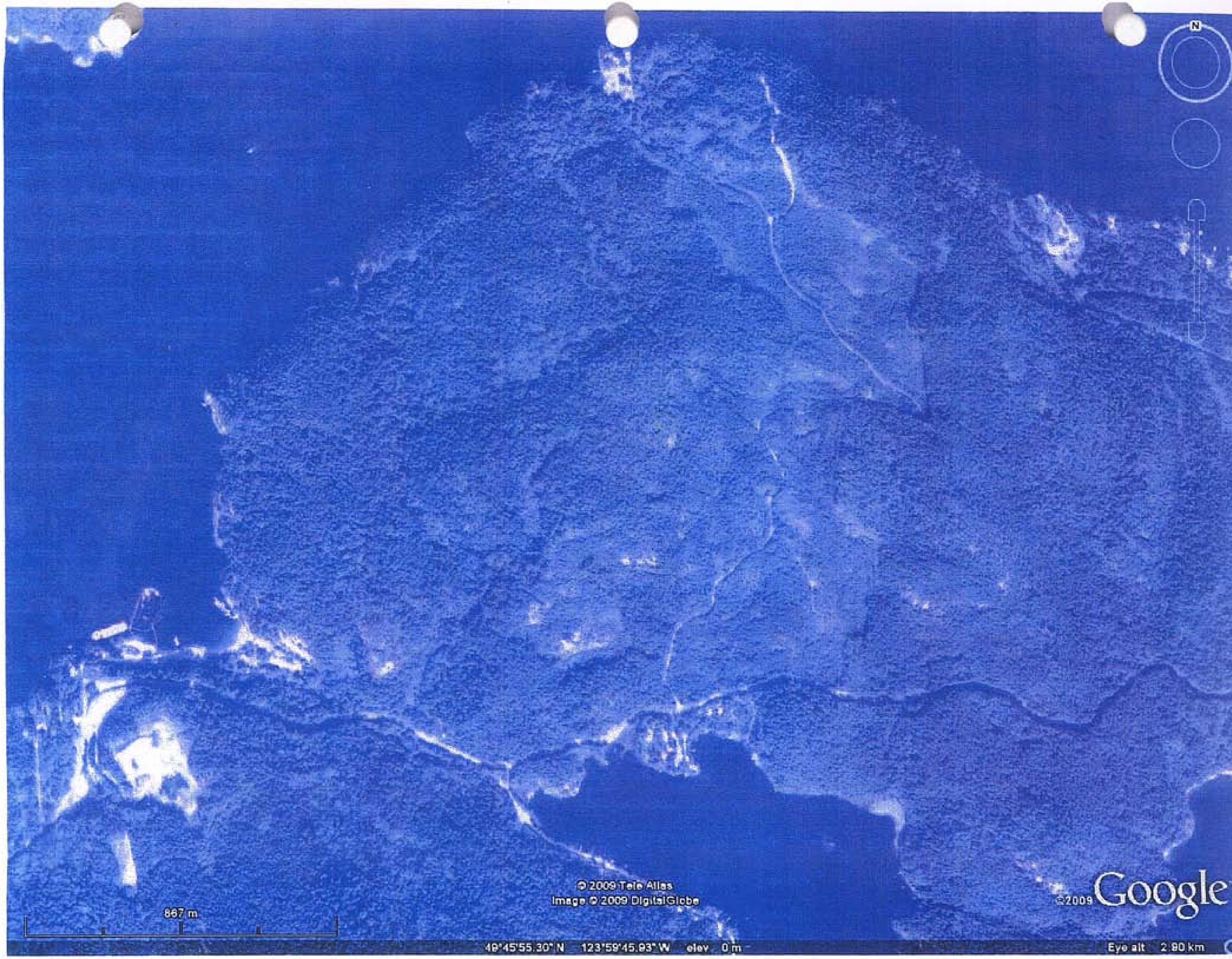
Both the samples were analysed using the IDX method (see Appendix). Then the ten Ah samples were analysed using the IF method (see Appendix).

Also, one soil sample was taken from above a ferro-crete zone in the Beach area. A large seep sample was taken from the creek above the oldest cabin on the Beach Zone. A heavy metals sample was taken from the creek where Aob and AoAh was taken.

Milton Mandowske took the 31 rock samples along with one soil sample, one seep sample and the heavy metals pan. Don Bragg mapped the area of the soil samples and took the 20 samples. Both prospectors spent considerable time prospecting the area for new showings.

Don Bragg started to prepare the rock samples for the laboratory and to describe the samples. This was completed upon return to Surrey. The soil samples were also dried in preparation for shipment to the lab.

A map on a scale of 1 - 250 was prepared of the area of the soil sampling relative to the DF Vein. Once the assay results were in, a map of the assay plan of the DF area on a scale of 1 - 2,500 was prepared.



© 2009 Tele Atlas
Image © 2009 DigitalGlobe
867 m
©2009 Google
49°45'55.30" N 123°59'45.93" W elev 0 m
Eye alt 2.90 km

Fig 3

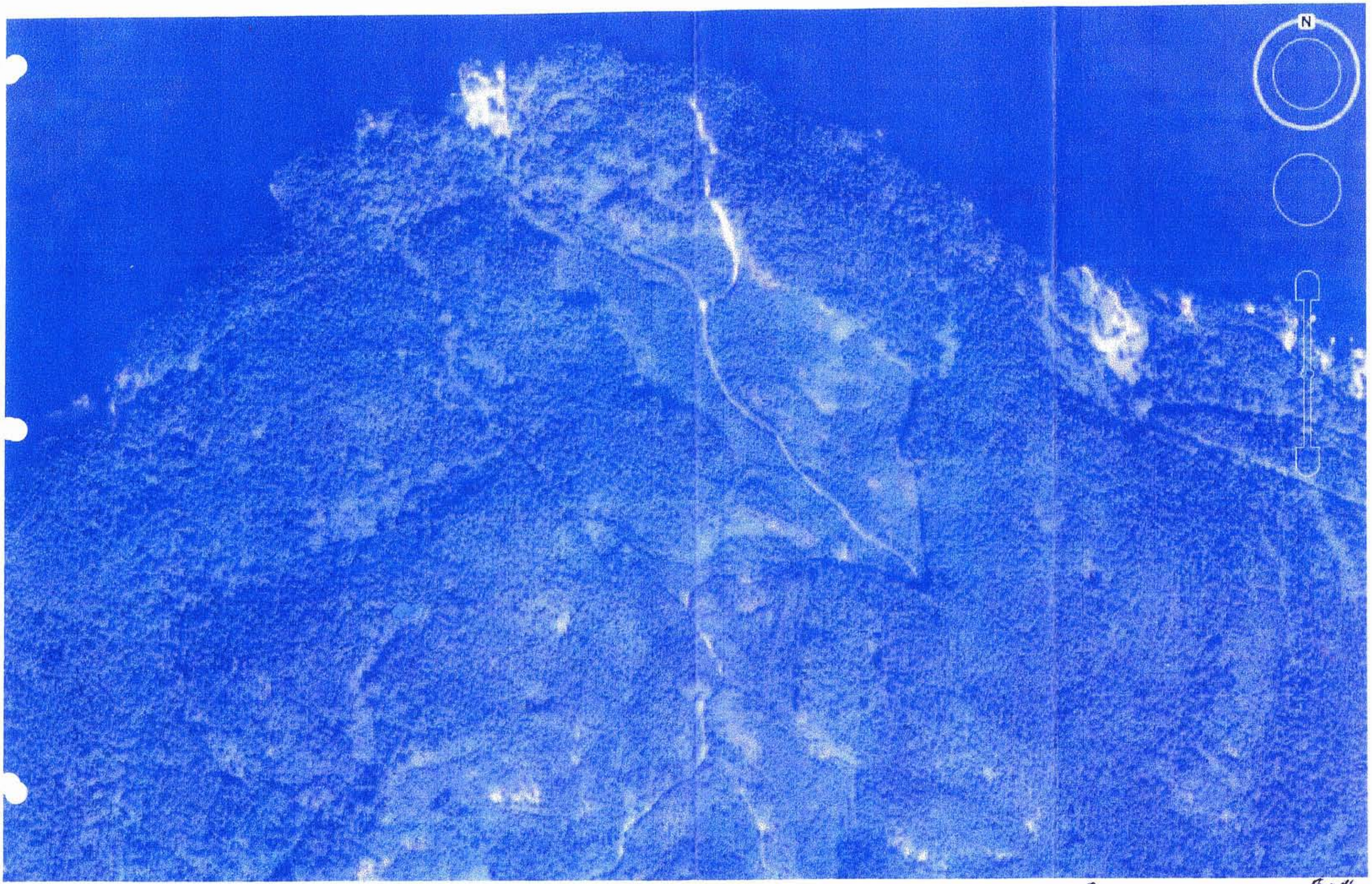
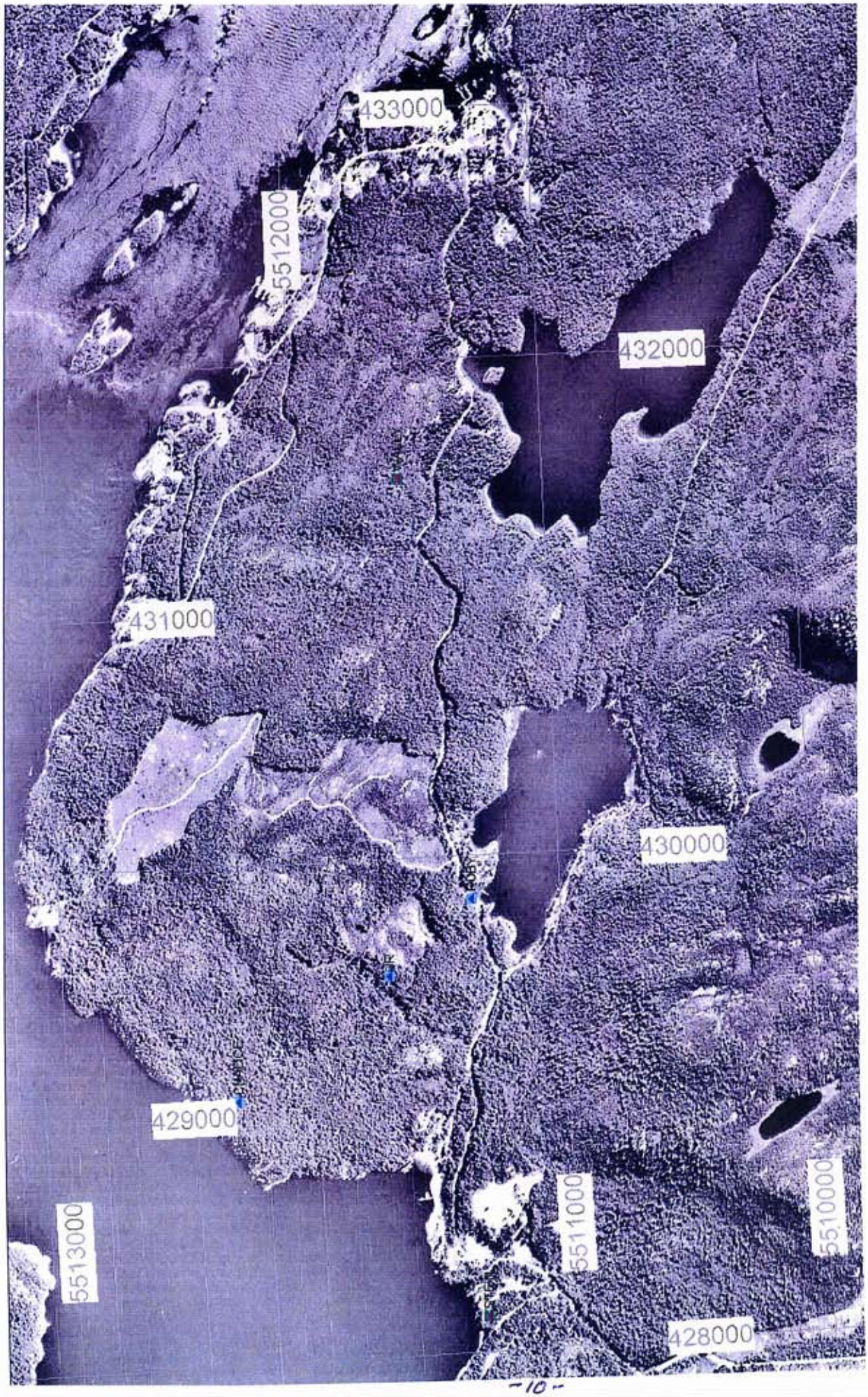


Fig 4



Scale 1 - 21,280

Fig 5

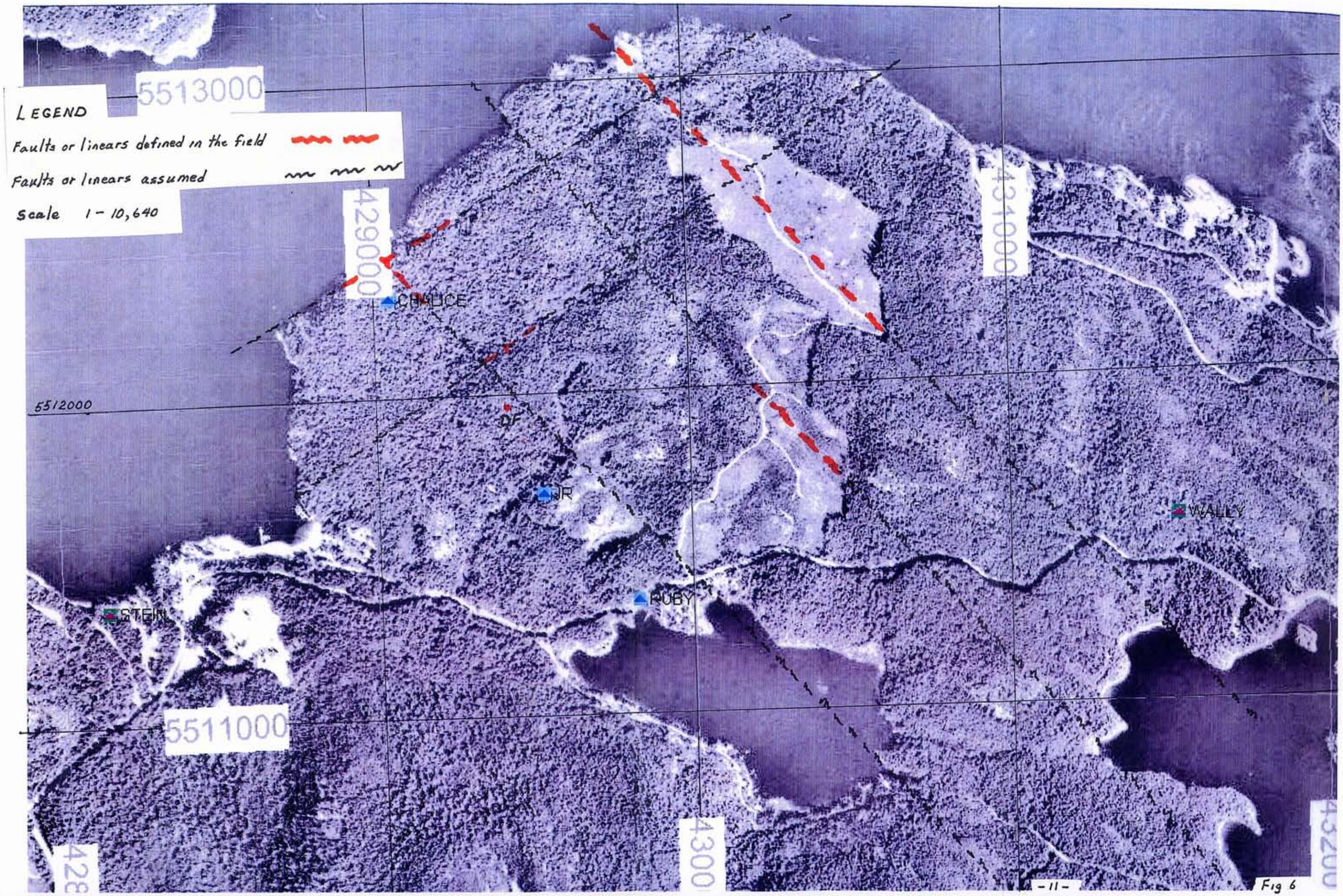
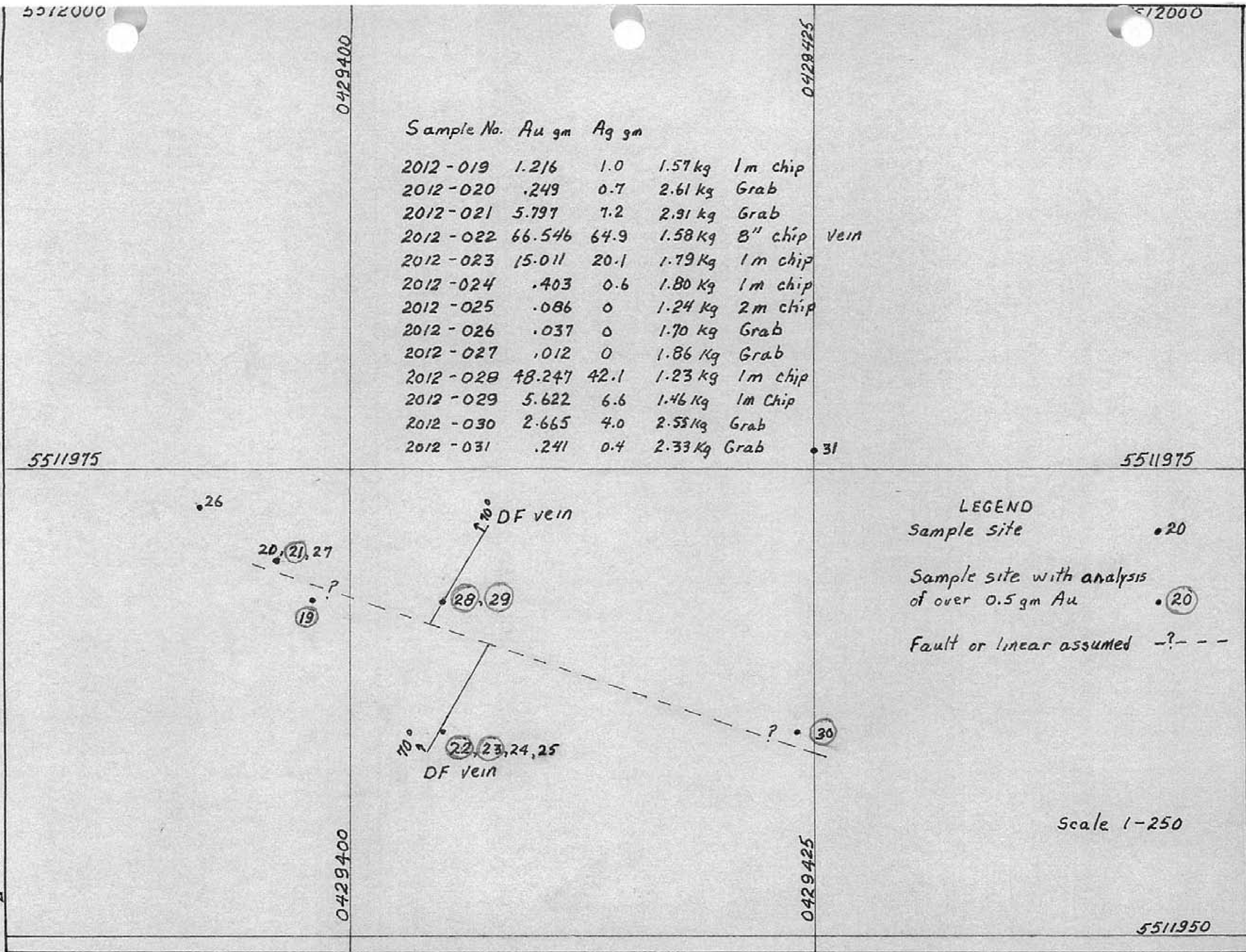

LEGEND
Faults or linears defined in the field
Faults or linears assumed
Scale 1 - 10,640
5513000
4290000
4310000
5512000
5511000
4280
4300
4320
CHALICE
DF
JR
RUBY
STEIN
WALLEY

Fig 6

Sample No.	Au gm	Ag gm		
2012-019	1.216	1.0	1.57 kg	1m chip
2012-020	.249	0.7	2.61 kg	Grab
2012-021	5.797	7.2	2.91 kg	Grab
2012-022	66.546	64.9	1.58 Kg	8" chip vein
2012-023	15.011	20.1	1.79 Kg	1m chip
2012-024	.403	0.6	1.80 Kg	1m chip
2012-025	.086	0	1.24 Kg	2m chip
2012-026	.037	0	1.70 kg	Grab
2012-027	.012	0	1.86 Kg	Grab
2012-028	48.247	42.1	1.23 kg	1m chip
2012-029	5.622	6.6	1.46 Kg	1m Chip
2012-030	2.665	4.0	2.55 Kg	Grab
2012-031	.241	0.4	2.33 Kg	Grab



12

Fig 7.

0429000 0429250 0429500

5512500 5512500

A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0 B1 C2

5512250 5512250

5512000 5512000

LEGEND

Old decommissioned logging road - - - - -

Trail .....

Stream ~~~→

intermittent stream — — →

Sample Site • A1

Fault or linear ~ ~ ~

DF zone

Scale 1- 2500

0429000 0429250 0429500

5511750 5511750

Fig 8

RESULTS

During the period in the field, Milton Mankowske did an incredible job of prospecting the area of the DF Vein and sampling with rock outcrops. Because of this work, some new showings were identified. In mapping the results of his work, it would appear that the DF Vein may be offset by a northwesterly structure that may also be mineralized with gold and silver. Sample 2012-19 ran 1.22 gm Au; Sample 2012-21 ran 5.8 gm Au, and Sample 2012 30 ran 2.66 gm Au

These and other assays around the intersect of the DF Vein suggest an area of interest 10 m by 10 m that may run better than 1.5 gm of gold per ton and 1.5 gm silver per ton.

In comparing the soil samples where both the Bf horizon and the Ah were analysed by IDX procedure, there were little differences in the result and, in most cases, the Bf results were better than the Ah, but were relatively close. The only case was with lead where the results from Ah horizon tended to be higher both with the IDX and the IF method of analysis. For most elements the results from the Ah horizon by IDX and IF were almost identical.

The soil sampling test was inconclusive, although the number of samples were small and perhaps in the future should be taken
over a larger area

In the Beach area, Sample 2012-012 from the C2 Zone, returned 86.7 gm Au and 83.6 gm Ag. The sample has up to 8% sulphides mostly fine grained pyrite and possibly some marcacite. Sample 2012-018 returned 25.563 gm Au and 59.2 gm Ag. Again, this sample had up to 5% sulphides and may be one of the zones that are mentioned by Grove in Assessment Report 14,736.

The other samples from the Beach area returned values of between 2 gm and 9.8 gm Au and with one returning 18.4 gm Ag. Of the three, 2012–14 was a 70 cm channel sample that returned 5 gm Au and 9 gm Ag. When examining and describing this sample, very little sulphides could be seen in the dust and fine chips as this sample was collected using a hand-held saw.

As most of these five samples contained sulphides up to as much as 8%, it would appear that the gold may be associated with the pyrite, no visible gold can be seen in the samples.

In future during visits to the area, some ten kilograms of sulphides should be collected so that a bench test could be conducted.

During this current visit, the area of the Beach Zone was not mapped in detail.

For some reason, the analysis of the heavy metal sample taken just north of the DF Zone did not come back from the laboratory. The sample may have been lost in transit.

CONCLUSIONS

The work done during the current investigation has certainly expanded the potential of both the areas of the DF Vein and the Beach Zone in that some new zones (mineralization) have been identified especially in the DF area.

RECOMMENDATIONS

In following up this investigation, both the DF Zone and the Beach Zone should be prospected in even more detail as new zones may be found.

In the DF area, the moss and vegetation needs to be cleaned off in order to map and sample the outcrop.

Both zones need to be mapped in more detail.

STATEMENT OF COSTS

JI PROJECT - May 8 to 18, 2012

Field Time (May 10 to 14, 2012)				
	D.K. Bragg - 62 hrs @ $40/hr		$ 2,480.00	
	Milton Mankowske - 57 hrs @ $30/hr		1,710.00	$ 4,190.00
Mobilization/Demobilization (time and expense)				
	D.K. Bragg	20 hours @ $40/hr	$ 800.00	
	Milton Mankowske - 29 hrs @ $30/hr		870.00	$ 1,670.00
Expenses	B.C. Ferries		$ 76.95	
	Gas - 75.75 l @ $1.66/l		121.20	
	Rent 2 trucks - 4 days		280.00	
	Meals and other expenses		196.00	674.15
Field Expenses	Accommodation - 2 nights		$ 358.00	
	Miscellaneous		121.09	
	Food in field - 30 meals @ $14.00 each		420.00	
	Equipment rent & field camp		250.00	1,149.09
Assays	55 samples	@ $30 each		1,650.00
Report Preparation				1,200.00
		TOTAL COST		$10,533.24
		P.A.C. - 30%		3,159.97
		TOTAL TO BE FILED		**$13,693.21**
		EVENT NO. 5313198		

QUALIFICATIONS OF DONALD K. BRAGG

I, Donald K. Bragg, Prospector, state as follows:

- Graduated Armstrong High School, Armstrong, B.C.
- Attended U.B.C. from 1958 to 1962, Faculty of Arts and Science, in Honours Geology.
- Worked in mineral exploration since 1956.
- Worked for Kenco Explorations during the summers of 1956, 1957 and 1959 in the Yukon and Northern B.C. as an assistant prospector, head prospector and geochemical sampler under the direction of Dr. R. Cambell and R. Woodcock.
- Worked as head prospector for the Nahanni Syndicate in the Northwest Territories in 1960 under the direction of Doug Wilmont.
- Worked as head prospector in the Yukon for Dualco in 1961 under the direction of E. Wozniak.
- Worked as head prospector for Mining Corp. of Canada, Southwestern B.C. in 1962 under J.S. Scott and Dr. K. Northcote.
- Worked as head prospector during the summer of 1963 for the Francis River Syndicate in central Yukon under the direction of Dr A. Aho.
- Worked as field geologist in the Greenwood area of B.C. for Scurry Rainbow Oil in 1965 under the direction of Bill Quinn.
- Worked as field supervisor for Alrae Explorations Ltd. from September 1965 to April 1967 under the direction of Rae Jury.
- Since 1956, self-employed contractor hired by various mining companies in the following fields: prospecting, property examination, claim staking, line cutting, topographical mapping, geological mapping, reconnaissance mineral sampling, draughting, air photo interpretation, geochemistry, geophysics, supervising property exploration programs, setting up bush camps, and camp manager.
- Since 1956, self-employed prospector working in various areas in British Columbia and on self-owned properties.

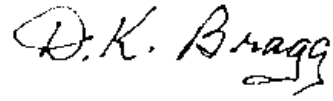
- Assisted in teaching field procedures for Geochemical Explorations Section of the Ministry of Energy, Mines and Petroleum Resources Mineral Exploration Course For Prospectors under the direction of Dr. S. Hoffman in 1984, 1985, 1986, 1987, 1988.

- Received the B.C. Provincial Grubstake Award for the years 1964, 1968, 1969, 1970, 1980, 1981, 1982, 1983, 1984, 1986, 1987, and 1988.

- Worked in the Rossland Camp from 1971 to 1991 as prospector/miner on the Snowdrop and Blue Bird Claims, and mining exploration contractor.

- Worked in the Osilinka and Cut Mountain area with Lysander Mining Corporation during the 2004, 2005, 2006, 2007, 2008 field seasons under the direction of Peter E. Fox, Ph.D., P.Eng., in setting up and managing the camp, prospecting, and mapping the area.

Respectfully submitted,



D. K. Bragg

March 18, 2013

Vancouver, B.C.

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GSC	OF	611
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Assessment Report		Report on Geophysical Work, Technical Work and First Nations Consultation re the Dancer 1-4 Claims, dated August 18, 2008 by John P. LaRue
Assessment Report		Geological Mapping, Prospecting & Sampling Report on the J2 and JI 1-7 Claims dated June 21, 2010 by D.K. Bragg
Assessment Report		Topographic, Geological Mapping, Prospecting and Sampling Report on the JI and J1-7, Jay 1 and J8-11 Claims dated April 1, 2012 by D.K. Bragg

APPENDICES

FIELD SAMPLE RECORD SHEETS

ROCK DESCRIPTIONS

ASSAY ANALYSIS

GEOCHEMICAL ANALYTIC PROCEDURES

A1

PROJECT ...JF...

SAMPLER Don + Milton
DATE ...May 13.../2010
PROPERTY ....

UTM N.............. ....
UTM E.............................
GRID N...........................
GRID E..............................

TYPE: **Soil** Silt Grab Chip Water Pan

MATERIAL: Till **Gravel** Silt **Sand** Talus Organic Bedrock Float

HORIZON: A **B** C Topsoil Humus Caliche

COLOUR: White Black Brown **Orange** Red Grey Green

TOPOGRAPHY: Hilltop **Hillside** Gulley Flat Dry Creek Bog

REMARKS: Bf horizon 15 cm

Ah grey here

A0

PROJECT ...JF...

SAMPLER
DATE ...May 13.....2010
PROPERTY ....

UTM N.............. ....
UTM E.............................
GRID N...........................
GRID E..............................

TYPE: **Soil** Silt Grab Chip Water Pan

MATERIAL: Till **Gravel** Silt **Sand** Talus Organic Bedrock Float

HORIZON: A **B** C Topsoil Humus Caliche

COLOUR: White Black **Brown** Orange **Red** Grey Green

TOPOGRAPHY: Hilltop Hillside Gulley Flat Dry Creek Bog

REMARKS: Bf horizon 15c

Also Ah

PROJECT ....

SAMPLER ....
DATE ..../2010
PROPERTY ....

UTM N.............. ....
UTM E. ....
GRID N...........................
GRID E..............................

TYPE: Soil Silt Grab Chip Water Pan

MATERIAL: Till Gravel Silt Sand Talus Organic Bedrock Float

HORIZON: A B C Topsoil Humus Calich

COLOUR: White Black Brown Orange Red Grey Green

TOPOGRAPHY: Hilltop Hillside Gulley Flat Dry Creek Bog

REMARKS: ....

A4

PROJECT ..... I.I.....

SAMPLER ..... Don & Milton
DATE ..... /2012
PROPERTY ....

UTM N..... .....
UTM E.....
GRID N.....
GRID E.....

TYPE: (Soil) Silt Grab Chip Water Pan

MATERIAL: Till (Gravel) Silt (Sand) Talus
Organic Bedrock Float

HORIZON: A (B) C Topsoil Humus Caliche

COLOUR: White Black (Brown) (Orange) Red
Grey Green

TOPOGRAPHY: (Hilltop) Hillside Gulley
Flat Dry Creek Bog

REMARKS: Bf horizon 15 cm
.....
.....
.....

Also Ah

A3

PROJECT ..... I.I.....

SAMPLER ..... Don & Milton
DATE ..... May 13 ..... /2012
PROPERTY ....

UTM N..... .....
UTM E.....
GRID N.....
GRID E.....

TYPE: (Soil) Silt Grab Chip Water Pan

MATERIAL: Till (Gravel) Silt (Sand) Talus
Organic Bedrock Float

HORIZON: A (B) C Topsoil Humus Caliche

COLOUR: White Black (Brown) (Orange) Red
Grey Green

TOPOGRAPHY: (Hilltop) Hillside Gulley
Flat Dry Creek Bog

REMARKS: Bf horizon 10 cm
.....
.....
.....

Also Ah

A2

PROJECT ..... I.I.....

SAMPLER ..... Don + Milton
DATE ..... /2012
PROPERTY ....

UTM N..... .....
UTM E.....
GRID N.....
GRID E.....

TYPE: (Soil) Silt Grab Chip Water Pan

MATERIAL: Till (Gravel) Silt (Sand) Tal
Organic Bedrock Float

HORIZON: A (B) C Topsoil Humus Calic

COLOUR: White Black Brown (Orange) Re
Grey Green

TOPOGRAPHY: Hilltop (Hillside) Gulley
Flat Dry Creek Bog

REMARKS: Bf horizon 12 cm
.....
.....
.....

Ah 8 cm

A 7

PROJECT .....

SAMPLER .....
DATE ...../2012
PROPERTY ....

UTM N..... .....
UTM E.....
GRID N.....
GRID E.....

TYPE: (Soil) Silt Grab Chip Water Pan

MATERIAL: Till (Gravel) Silt (Sand) Talus
Organic Bedrock Float

HORIZON: A (B) C Topsoil Humus Caliche

COLOUR: White Black Brown (Orange Red)
Grey Green

TOPOGRAPHY: (Hilltop) Hillside Gulley
Flat Dry Creek Bog

REMARKS: B horizon 10 cm

A6

PROJECT .....

SAMPLER .....
DATE ...../2012
PROPERTY ....

UTM N..... .....
UTM E.....
GRID N.....
GRID E.....

TYPE: (Soil) Silt Grab Chip Water Pan

MATERIAL: Till (Gravel) Silt (Sand) Talus
Organic Bedrock Float

HORIZON: A (B) C Topsoil Humus Caliche

COLOUR: White Black Brown (Orange Red)
Grey Green

TOPOGRAPHY: (Hilltop) Hillside Gulley
Flat Dry Creek Bog

REMARKS: B horizon 5 cm

AH 3 cm

A5

PROJECT .....

SAMPLER .....
DATE ...../2012
PROPERTY ....

UTM N..... .....
UTM E.....
GRID N.....
GRID E.....

TYPE: (Soil) Silt Grab Chip Water Pan

MATERIAL: Till (Gravel) Silt (Sand) Talu
Organic Bedrock Float

HORIZON: A (B) C Topsoil Humus Calic

COLOUR: White Black (Brown) Orange Re
Grey Green

TOPOGRAPHY: (Hilltop) Hillside Gulley
Flat Dry Creek Bog

REMARKS: B horizon 20 cm

Line A10 -01	A9	A8
PROJECT	**PROJECT**	**PROJECT** .....
SAMPLER ..Don + Milton.....	**SAMPLER** ..Don + Milton.....	**SAMPLER** .....
DATE .....May..13...../2012	**DATE** .....May..13...../2012	**DATE** ..May..13...../2012
PROPERTY	**PROPERTY**	**PROPERTY** ....
UTM N..5521444.....	**UTM N**..5512444.....	**UTM N**.....5512409.....
UTM E...0429259.....	**UTM E**..0429200.....	**UTM E**.....0429205.....
GRID N.....	**GRID N**.....	**GRID N**.....
GRID E.....	**GRID E**.....	**GRID E**.....
TYPE: (Soil) Silt Grab Chip Water Pan	**TYPE:** (Soil) (Silt) Grab Chip Water Pan	**TYPE:** (Soil) Silt Grab Chip Water Pan
MATERIAL: Till (Gravel) Silt (Sand) Talus Organic Bedrock Float	**MATERIAL:** Till (Gravel) Silt (Sand) Talus Organic Bedrock Float	**MATERIAL:** Till (Gravel) Silt (Sand) Talt Organic Bedrock Float
HORIZON: A (B) C Topsoil Humus Caliche	**HORIZON:** A (B) C Topsoil Humus Caliche	**HORIZON:** A (B) C Topsoil Humus Calic
COLOUR: White Black Brown (Orange Red) Grey Green	**COLOUR:** White (Black Brown) Orange Red Grey Green	**COLOUR:** White Black (Brown) Orange (Re Grey Green
TOPOGRAPHY: (Hilltop) Hillside Gulley Flat Dry Creek Bog	**TOPOGRAPHY:** (Hilltop) Hillside Gulley Flat Dry Creek Bog	**TOPOGRAPHY:** (Hilltop) Hillside Gulley Flat Dry Creek Bog
REMARKS: B horizon 20 cm	**REMARKS:** B horizon 30 cm	**REMARKS:** B horizon 16 cm
Also Ah	Also Ah	Also Ah

SAMPLE DESCRIPTIONS

C1 BEACH ZONE

Much of the rock found on th beach is a medium grained grey granite with up to 5% disseminated pyrite. Within these granitic rocks are quartz stringers as much as 3 cm in width carrying anywhere from 10% pyrite to 100% pyrite. One of the rocks collected from the C1 Beach Zone was a silica-rich granitic breccia with 10% disseminated pyrite. This rock was very difficult to break. Some of these rocks are only slightly magnetic. This zone is now covered by gravel and rock below a cabin. It is believed that this zone was the source of the 106 tons of ore that was shipped to Tacoma in 1965 that gave a reported 34 ounces of gold, 45 ounces of silver, and 170 pounds copper.

2012-001 **0429134, 5512475** **Elev. 46 m**

Greenish-grey basaltic dyke rock, strongly magnetic with only minor pyrite, less than 0.5%. Fine grained.

2012-002 **0429134, 5512475** **Elev. 46 m**

Seep sample taken from the west side of the creek.

2012-003 **0429110, 5512484** **Elev. 95 m**

Fine to medium grained granodiorite, only slightly magnetic. No visible sulphides. One inch quartz vein in diorite. Strike 335° dip 90°.

2012-004 **0429061, 5512452** **Elev. 59 m**

Fine grained grey dyke rock moderately magnetic with very fine grained pyrite and with some blebs up to 2 mm. Scratches very easily. Sample contains some feldspar porphyry only slightly magnetic. No visible sulphide in the porphyry. May be some chalcopyrite in the dyke rock.

2012-005 **0429061, 5512452** **Elev. 59 m**

Medium grained granodiorite, no visible sulphides. Small quartz feldspar stringers 1 mm in width. Slightly magnetic.

2012-006 **0429059, 5512438** **Elev. 61 m**

Medium grained feldspar porphyry, slightly magnetic. No visible sulphides but there are rusty spots. Some epidote stringers. Some red staining around feldspar phenocrysts (hematite?).

2012-007 0429040, 5512440 Elev. 61 m

Quartzite feldspar vein within granodiorite, slightly magnetic. Very fine unidentifiable black mineral in vein, may be magnetite, however some specks have a peacock sheen. No pyrite or marcacite could be seen. Quartz-feldspar vein flat lying and about 5 cm thick.

2012-008 0429022, 5512469 Elev. 2 m

Quartz-feldspar vein within diorite, slightly magnetic, very similar to 2012-007. Less black mineral in this sample. Again, no pyrite or marcacite could be seen. The granodiorite is moderately magnetic. Vein dipping 10° west, striking south.

2012-009 0429042, 5512499 Elev. 23 m

Coarse grained granodiorite with disseminated pyrite up to 10%. Some of the pyrite is very yellowish so may contain copper but no malachite was observed. The samples contain quartz-feldspar vein with sulphides as well as massive sulphide veinlets. This, it is believed, is a new showing. Moderately magnetic. Quartz vein 6 inches wide, strikes east, dipping south at 50°. This vein is cut by a vertical dyke.

2012-010 0429042, 5512499 Elev. 23 m

Medium to coarse granodiorite with up to 8% disseminated pyrite along with small silica veinlets containing pyrite. Sample also contains some grey dyke rock with no visible sulphide. Chip sample across 4 metres.

2012-011 0429025, 5512486 Elev. 23 m

Quartz-feldspar dyke rock up to 1.5 m wide within medium grained granodiorite that is moderately magnetic. The quartz feldspar is not magnetic. Contains unidentifiable black minerals.

2012-012 0429094, 5512509 Elev. 0 m

C2 Massive Sulphide Grab

Medium grained granodiorite with up to 8% disseminated sulphides, slightly magnetic, with massive sulphide stringers up to 3 cm in width. Grab of rusty zones. This zone needs to be drilled to accurately test the potential here.

2012-013 0429139, 5512531 Elev. 0 m

Fine grained grey dyke rock with up to 2% sulphides, moderately magnetic. May be very fine grained sulphides in the rock that cannot be identified from the crystal faces. Small stringers of epidote in dyke mineral. Grab sample 80 m from C2.

2012-014 **0429190, 5512551** **Elev. _____ m**

Channel sample above Zoran's sample EG-09-14

Coarse grained granodiorite slightly magnetic, but with no visible sulphides. Cannot identify the chips of the small veinlets that would have the sulphides. Channel sample over 70 cm across the small veinlet of 2 cm width and both footwall and hanging wall.

2012-015 **0429194, 5512534** **Elev. 46 m**

Coarse grained granodiorite, slightly magnetic, less than 1% visible pyrite. Some epitomization.

2012-016 **0429183, 5512513** **Elev. 46 m**

Coarse grained granodiorite, moderately magnetic. Less than 1% visible pyrite, some epidotization. Pyrite along a black fracture face.

2012-017 **0429175, 5512508** **Elev. 46 m**

Medium grained granodiorite, moderately magnetic. Less than 1% visible pyrite, some epidotization. Sample from vertical cliff face. Also vertical dyke, strike N55°, dip 90°.

2012-018 **0429173, 5512525** **Elev. 75 m**

Medium grained granodiorite, slightly magnetic. Up to 5% sulphides but with veinlets of massive sulphides up to 2 cm in width. Grab of float from a 5 m x 5 m pit full of water.

2012-019 **0429398, 5511968** **Elev. 124 m**

Fine grained granodiorite, only very slightly magnetic. Very little visible sulphides. Rock slightly altered. One metre chip sample.

2012-020 **0429396, 5511970** **Elev. 133 m**

Fine grained granodiorite slightly magnetic. Less than 1% sulphides. Rusty splotches along fractures. Much epidotization. Grab sample.

2012-021 **0429396, 5511969** **Elev. 133 m**

Milton Vein

Medium grained granodiorite, slightly magnetic with less than 1% sulphides, but with a massive sulphide vein or pod 4.5 cm wide. Grab sample.

2012-022 **0429405, 5511961** **Elev. 156 m**

8 inch quartz vein at DF Zu 3

Quartz vein with boxwork, non-magnetic with about 2% pyrite.

2012-023 **0429405, 5511961** **Elev. 156 m**

Altered rusty fine grained granodiorite, slightly magnetic. Boxwork appears throughout the rock. Less than 1% sulphides. Chip sample over 1 metre length on southeast side of quartz vein.

2012-024 **0429405, 5511961** **Elev. 156 m**

Altered rusty fine grained granodiorite, only slightly magnetic. Less than 1% Sulphides. Sample also contains quartz stringers. Chip sample over 1 m length on northwest side of quartz vein.

2012-025 **0429405, 5511961** **Elev. 156 m**

Very fine grained, possibly late stage dyke of granodiorite. Very little visible sulphides. Chip sample across 2 metres of intrusive dyke.

2012-026 **0429392, 5511973** **Elev. 134 m**

Fine grained granodiorite, slightly magnetic. Almost no visible sulphides. Very white, less than 5% mafics.

2012-027 **0429396, 5511969** **Elev. 133 m**

Very fine grained granodiorite, slightly magnetic. Almost no visible sulphides. Very white, less than 5% mafics. Grab of wall rock, hanging wall above rim.

2012-028 **0429405, 5511968** **Elev. 124 m**

DF 1 - 1 metre sample of footwall of vein.

Highly altered and rusty, medium grained granodiorite with boxwork, slightly magnetic, less than 1% visible sulphides.

2012-029 **0429405, 5511968** **Elev. 124 m**

DF 1 - 1 medium sample of hanging wall of vein

Altered rusty medium grained granodiorite, slightly magnetic. No visible sulphides.

2012-030 **0429424, 5511961** **Elev. 150 m**

Medium grained rusty granodiorite, slightly magnetic. Contains silica (vein?) with boxwork. Less than 1% visible sulphides. May be another new showing. Grab sample.

2012-031 **0429425, 5511976** **Elev. 136 m**

Fine grained felspathic rock, slightly magnetic. Contains about 1% sulphides.

2012-S01 **0429041, 5512478** **Elev. 7 m**

Soil sample from above the ferro-crete zone in the Beach area.

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Bragg, Don**
6588 152nd Street
Surrey BC V3S 3L1 Canada

Submitted By: Don Bragg
Receiving Lab: Canada-Vancouver
Received: May 22, 2012
Report Date: June 08, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN12002344.1

CLIENT JOB INFORMATION

Project: JI
Shipment ID:
P.O. Number
Number of Samples: 30

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	30	Crush, split and pulverize 250 g rock to 200 mesh			VAN
3B02	30	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
1DX1	30	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
1F04	2	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Bragg, Don
6588 152nd Street
Surrey BC V3S 3L1
Canada

CC: Barry Price

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Bragg, Don**
6586 152nd Street
Surrey BC V3S 3L1 Canada

Project: JI
Report Date: June 08, 2012

CERTIFICATE OF ANALYSIS VAN12002344.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	2	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
2012-001	Rock	138	2.57	0.097	5	16	1.99	37	0.171	<20	4.61	0.372	0.09	0.2	<0.01	6.1	<0.1	<0.05	14	<0.5	<0.2
2012-003	Rock	23	0.39	0.034	6	2	0.26	34	0.062	<20	0.77	0.062	0.17	0.4	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
2012-004	Rock	98	1.35	0.101	4	27	1.85	44	0.129	<20	2.79	0.171	0.12	0.2	<0.01	6.2	<0.1	<0.05	9	<0.5	<0.2
2012-005	Rock	40	0.52	0.057	6	2	0.58	44	0.135	<20	1.05	0.083	0.13	<0.1	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
2012-006	Rock	46	0.71	0.065	7	6	0.56	28	0.157	<20	1.14	0.110	0.11	0.3	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
2012-007	Rock	13	0.10	0.010	11	2	0.13	32	0.044	<20	0.31	0.067	0.16	<0.1	<0.01	0.5	<0.1	<0.05	1	<0.5	<0.2
2012-008	Rock	16	0.39	0.014	9	3	0.16	26	0.040	<20	0.32	0.087	0.16	<0.1	<0.01	0.5	<0.1	<0.05	1	<0.5	<0.2
2012-009	Rock	41	1.23	0.058	5	6	0.53	36	0.116	<20	2.32	0.293	0.24	2.3	0.01	2.3	<0.1	1.72	8	<0.5	3.2
2012-010	Rock	55	1.10	0.062	4	10	0.74	50	0.135	<20	2.43	0.254	0.27	2.1	<0.01	2.9	<0.1	0.37	8	<0.5	1.3
2012-011	Rock	17	0.41	0.014	3	3	0.21	28	0.056	<20	0.37	0.081	0.16	<0.1	<0.01	0.6	0.2	<0.05	2	<0.5	<0.2
2012-012	Rock	28	1.03	0.055	4	4	0.54	19	0.087	<20	1.57	0.058	0.19	2.1	0.48	1.6	<0.1	9.67	5	1.0	111.1
2012-013	Rock	50	1.16	0.096	4	7	0.75	14	0.174	<20	1.86	0.161	0.05	0.3	<0.01	3.6	<0.1	<0.05	8	<0.5	<0.2
2012-014	Rock	46	0.55	0.060	7	4	0.43	82	0.143	<20	1.04	0.116	0.29	0.7	<0.01	1.3	<0.1	0.13	5	<0.5	9.1
2012-015	Rock	40	1.03	0.070	7	4	0.50	46	0.116	<20	1.26	0.093	0.19	1.2	<0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
2012-016	Rock	52	0.82	0.086	7	4	0.64	77	0.139	<20	1.36	0.171	0.36	0.5	<0.01	3.3	<0.1	0.06	6	<0.5	<0.2
2012-017	Rock	69	1.32	0.130	4	2	0.88	134	0.133	<20	2.44	0.322	0.31	0.8	0.03	3.0	<0.1	0.13	8	<0.5	18.8
2012-018	Rock	14	0.86	0.055	3	1	0.21	80	0.036	<20	1.31	0.112	0.37	1.9	0.07	1.2	<0.1	7.38	4	<0.5	41.4
2012-019	Rock	16	0.32	0.058	4	2	0.38	44	0.053	<20	1.02	0.023	0.33	2.3	0.01	0.9	<0.1	0.09	3	<0.5	2.8
2012-020	Rock	13	0.44	0.054	5	3	0.27	57	0.051	<20	1.38	0.033	0.38	1.5	<0.01	1.1	<0.1	0.08	4	<0.5	1.0
2012-021	Rock	22	0.33	0.062	4	2	0.41	122	0.085	<20	1.30	0.044	0.32	2.2	0.04	0.9	<0.1	0.92	5	<0.5	11.0
2012-022	Rock	4	<0.01	0.004	<1	1	0.01	20	0.007	<20	0.14	0.005	0.11	0.5	0.52	0.2	<0.1	0.72	<1	0.6	64.5
2012-023	Rock	21	0.25	0.049	4	2	0.28	64	0.061	<20	1.32	0.030	0.28	1.3	0.14	1.1	<0.1	<0.05	4	<0.5	5.2
2012-024	Rock	16	0.43	0.059	5	2	0.34	53	0.063	<20	1.35	0.050	0.34	1.4	<0.01	1.0	<0.1	0.07	4	<0.5	1.1
2012-025	Rock	9	0.18	0.025	5	1	0.26	38	0.057	<20	0.67	0.071	0.14	0.2	<0.01	0.9	<0.1	<0.05	3	<0.5	<0.2
2012-026	Rock	6	0.15	0.024	6	<1	0.23	41	0.060	<20	0.65	0.068	0.13	<0.1	<0.01	0.9	<0.1	<0.05	3	<0.5	<0.2
2012-027	Rock	7	0.15	0.024	5	<1	0.23	34	0.067	<20	0.67	0.066	0.13	0.1	<0.01	0.8	<0.1	<0.05	3	<0.5	<0.2
2012-028	Rock	9	0.10	0.038	3	1	0.10	57	0.017	<20	0.62	0.013	0.31	0.4	0.41	0.5	<0.1	<0.05	2	<0.5	35.8
2012-029	Rock	16	0.65	0.067	5	2	0.33	61	0.025	<20	2.01	0.105	0.37	1.3	0.07	0.9	<0.1	<0.05	4	0.7	20.0
2012-030	Rock	16	0.44	0.057	4	2	0.22	57	0.046	<20	1.57	0.088	0.30	0.8	0.02	0.9	<0.1	0.14	5	<0.5	5.0
2012-031	Rock	20	1.25	0.066	5	2	0.42	31	0.067	<20	2.51	0.158	0.31	3.3	<0.01	1.2	<0.1	0.13	7	<0.5	0.7

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	2	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
2012-001	Rock	138	2.57	0.087	5	16	1.99	37	0.171	<20	4.61	0.372	0.09	0.2	<0.01	6.1	<0.1	<0.05	14	<0.5	<0.2
2012-003	Rock	23	0.39	0.034	6	2	0.28	34	0.062	<20	0.77	0.052	0.17	0.4	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
2012-004	Rock	96	1.35	0.101	4	27	1.95	44	0.129	<20	2.79	0.171	0.12	0.2	<0.01	5.2	<0.1	<0.05	9	<0.5	<0.2
2012-005	Rock	40	0.52	0.057	6	2	0.58	44	0.135	<20	1.05	0.083	0.13	<0.1	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
2012-006	Rock	46	0.71	0.065	7	6	0.56	28	0.157	<20	1.14	0.110	0.11	0.3	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
2012-007	Rock	13	0.10	0.010	11	2	0.13	32	0.044	<20	0.31	0.067	0.16	<0.1	<0.01	0.5	<0.1	<0.05	1	<0.5	<0.2
2012-008	Rock	16	0.39	0.014	9	3	0.16	26	0.040	<20	0.32	0.087	0.16	<0.1	<0.01	0.5	<0.1	<0.05	1	<0.5	<0.2
2012-009	Rock	41	1.23	0.058	5	6	0.53	36	0.116	<20	2.32	0.293	0.24	2.3	0.01	2.3	<0.1	1.72	8	<0.5	3.2
2012-010	Rock	55	1.10	0.062	4	10	0.74	50	0.135	<20	2.43	0.254	0.27	2.1	<0.01	2.9	<0.1	0.37	8	<0.5	1.3
2012-011	Rock	17	0.41	0.014	3	3	0.21	28	0.056	<20	0.37	0.081	0.16	<0.1	<0.01	0.6	0.2	<0.05	2	<0.5	<0.2
2012-012	Rock	28	1.03	0.055	4	4	0.54	19	0.097	<20	1.57	0.058	0.19	2.1	0.48	1.6	<0.1	9.67	5	1.0	111.1
2012-013	Rock	50	1.16	0.096	4	7	0.75	14	0.174	<20	1.86	0.161	0.05	0.3	<0.01	3.6	<0.1	<0.05	8	<0.5	<0.2
2012-014	Rock	46	0.55	0.060	7	4	0.43	82	0.143	<20	1.04	0.116	0.29	0.7	<0.01	1.3	<0.1	0.13	5	<0.5	9.1
2012-015	Rock	40	1.03	0.070	7	4	0.50	46	0.116	<20	1.26	0.093	0.19	1.2	<0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
2012-016	Rock	52	0.82	0.066	7	4	0.64	77	0.139	<20	1.36	0.171	0.36	0.5	<0.01	3.3	<0.1	0.06	6	<0.5	<0.2
2012-017	Rock	69	1.32	0.130	4	2	0.88	134	0.133	<20	2.44	0.322	0.31	0.8	0.03	3.0	<0.1	0.13	8	<0.5	18.8
2012-018	Rock	14	0.66	0.055	3	1	0.21	60	0.036	<20	1.31	0.112	0.37	1.9	0.07	1.2	<0.1	7.38	4	<0.5	41.4
2012-019	Rock	16	0.32	0.058	4	2	0.38	44	0.053	<20	1.02	0.023	0.33	2.3	0.01	0.9	<0.1	0.09	3	<0.5	2.8
2012-020	Rock	13	0.44	0.054	5	3	0.27	57	0.051	<20	1.38	0.033	0.38	1.5	<0.01	1.1	<0.1	0.08	4	<0.5	1.0
2012-021	Rock	22	0.33	0.062	4	2	0.41	122	0.085	<20	1.30	0.044	0.32	2.2	0.04	0.9	<0.1	0.92	5	<0.5	11.0
2012-022	Rock	4	<0.01	0.004	<1	1	0.01	20	0.007	<20	0.14	0.005	0.11	0.5	0.52	0.2	<0.1	0.72	<1	0.6	64.5
2012-023	Rock	21	0.25	0.049	4	2	0.28	64	0.061	<20	1.32	0.030	0.28	1.3	0.14	1.1	<0.1	<0.05	4	<0.5	5.2
2012-024	Rock	16	0.43	0.059	5	2	0.34	53	0.063	<20	1.35	0.050	0.34	1.4	<0.01	1.0	<0.1	0.07	4	<0.5	1.1
2012-025	Rock	9	0.18	0.025	5	1	0.26	38	0.057	<20	0.67	0.071	0.14	0.2	<0.01	0.9	<0.1	<0.05	3	<0.5	<0.2
2012-026	Rock	6	0.15	0.024	6	<1	0.23	41	0.060	<20	0.65	0.068	0.13	<0.1	<0.01	0.9	<0.1	<0.05	3	<0.5	<0.2
2012-027	Rock	7	0.15	0.024	5	<1	0.23	34	0.067	<20	0.67	0.066	0.13	0.1	<0.01	0.8	<0.1	<0.05	3	<0.5	<0.2
2012-028	Rock	9	0.10	0.038	3	1	0.10	57	0.017	<20	0.62	0.013	0.31	0.4	0.41	0.5	<0.1	<0.05	2	<0.5	35.8
2012-029	Rock	16	0.65	0.057	5	2	0.33	61	0.025	<20	2.01	0.105	0.37	1.3	0.07	0.9	<0.1	<0.05	4	0.7	20.0
2012-030	Rock	16	0.44	0.057	4	2	0.22	57	0.046	<20	1.57	0.068	0.30	0.8	0.02	0.9	<0.1	0.14	5	<0.5	5.0
2012-031	Rock	20	1.25	0.066	5	2	0.42	31	0.067	<20	2.51	0.158	0.31	3.3	<0.01	1.2	<0.1	0.13	7	<0.5	0.7

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Project: JI
Report Date: June 08, 2012

CERTIFICATE OF ANALYSIS VAN12002344.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
2012-001	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-003	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-004	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-005	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-006	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-007	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-008	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-009	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-010	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-011	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-012	Rock	1.23	31.70	12.65	49.2	73126	7.0	49.3	417	10.12	4.5	0.6	76814	1.5	33.2	0.04	0.12	21.15	25	0.94	0.051
2012-013	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-014	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-015	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-016	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-017	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-018	Rock	1.08	101.8	5.17	18.0	55716	3.0	12.6	200	7.38	2.9	1.2	26410	2.5	27.0	0.24	0.07	5.01	13	0.65	0.057
2012-019	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-020	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-021	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-022	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-023	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-024	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-025	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-026	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-027	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-028	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-029	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-030	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-031	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A	N.A	N.A	N.A	N.A

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Project: JI
Report Date: June 08, 2012

CERTIFICATE OF ANALYSIS VAN12002344.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
2012-001	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A	N.A.	N.A.	N.A.	N.A.	N.A.
2012-003	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-004	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-005	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-006	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-007	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-008	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-009	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-010	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-011	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-012	Rock	3.9	3.6	0.49	16.2	0.081	<20	1.39	0.050	0.47	2.0	1.8	0.05	8.73	456	1.1	102.8	4.8	0.12	<0.1	0.08
2012-013	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-014	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-015	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-016	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-017	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-018	Rock	3.5	1.8	0.20	62.8	0.035	<20	1.25	0.111	0.35	1.9	1.3	0.05	7.12	86	0.8	45.32	3.4	0.17	<0.1	0.07
2012-019	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-020	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-021	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-022	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-023	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-024	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-025	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-026	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-027	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-028	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-029	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-030	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-031	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Project: JI
Report Date: June 08, 2012

CERTIFICATE OF ANALYSIS VAN12002344.1

Method		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2012-001	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-003	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-004	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-005	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-006	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-007	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-008	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-009	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-010	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-011	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-012	Rock	0.16	5.2	0.2	<0.05	1.3	2.30	6.8	<0.02	<1	0.4	6.2	<10	<2
2012-013	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-014	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-015	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-016	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-017	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-018	Rock	0.10	8.8	0.1	<0.05	1.0	2.37	6.0	<0.02	<1	0.3	7.0	<10	<2
2012-019	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-020	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-021	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-022	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-023	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-024	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-025	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-026	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-027	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-028	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-029	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-030	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012-031	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Project: JI
Report Date: June 08, 2012

QUALITY CONTROL REPORT VAN12002344.1

	Method	WGHT	3B	3B	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1
Pulp Duplicates																					
2012-001	Rock	2.39	2	<3	2	0.3	37.4	2.3	80	<0.1	17.0	21.5	987	4.53	4.4	<0.5	0.6	270	<0.1	<0.1	<0.1
REP 2012-001	QC		2	<3	<2																
2012-013	Rock	2.57	58	3	<2	0.2	10.0	5.6	108	<0.1	3.4	9.2	493	2.76	3.4	47.9	0.5	144	0.5	0.4	<0.1
REP 2012-013	QC					0.1	9.6	5.6	104	<0.1	3.1	9.1	491	2.74	3.0	114.6	0.5	139	0.4	0.3	<0.1
2012-023	Rock	1.79	>10000	<3	<2	3.6	103.3	4.9	25	20.1	1.7	3.9	251	2.11	2.0	15011	1.9	21	<0.1	0.2	2.8
REP 2012-023	QC		>10000	<3	<2																
Core Reject Duplicates																					
2012-031	Rock	2.33	143	<3	<2	0.2	113.0	8.5	73	0.4	1.6	4.8	531	1.67	0.6	241.5	1.7	49	0.2	<0.1	0.5
DUP 2012-031	QC		145	<3	<2	0.2	117.3	8.4	71	0.3	1.7	5.0	554	1.77	0.8	150.9	1.9	51	0.2	0.1	0.3
Reference Materials																					
STD CDN-PGMS-19	Standard		192	107	479																
STD CDN-PGMS-19	Standard		319	105	517																
STD CDN-PGMS-19	Standard		226	119	493																
STD DS9	Standard					16.0	123.4	148.2	362	2.2	43.4	8.4	647	2.66	28.8	139.2	7.5	88	2.7	6.1	6.9
STD DS9	Standard																				
STD OREAS45CA	Standard					1.0	498.5	22.3	65	0.3	251.3	91.0	940	15.89	3.8	47.4	7.7	17	<0.1	0.1	0.2
STD OREAS45CA	Standard																				
STD PD1	Standard		553	490	570																
STD PD1	Standard		565	484	609																
STD PD1	Standard		554	475	579																
STD PD1 Expected			542	456	563																
STD CDN-PGMS-19			230	108	476																
STD DS9 Expected						12.74	104	126	322	1.89	39.5	7.6	586	2.37	27	102	7.15	76.1	2.3	4.84	6.78
STD OREAS45CA Expected						1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19
BLK	Blank					<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1
BLK	Blank		<2	<3	<2																
BLK	Blank		3	<3	<2																
BLK	Blank		<2	<3	<2																

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QUALITY CONTROL REPORT VAN12002344.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	2	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																					
2012-001	Rock	138	2.57	0.097	5	16	1.99	37	0.171	<20	4.61	0.372	0.09	0.2	<0.01	6.1	<0.1	<0.05	14	<0.5	<0.2
REP 2012-001	QC																				
2012-013	Rock	50	1.16	0.096	4	7	0.75	14	0.174	<20	1.86	0.161	0.05	0.3	<0.01	3.6	<0.1	<0.05	8	<0.5	<0.2
REP 2012-013	QC	52	1.14	0.094	4	7	0.74	13	0.174	<20	1.82	0.162	0.05	0.3	<0.01	3.5	<0.1	<0.05	7	<0.5	<0.2
2012-023	Rock	21	0.25	0.049	4	2	0.28	64	0.061	<20	1.32	0.030	0.28	1.3	0.14	1.1	<0.1	<0.05	4	<0.5	5.2
REP 2012-023	QC																				
Core Reject Duplicates																					
2012-031	Rock	20	1.25	0.066	5	2	0.42	31	0.067	<20	2.51	0.158	0.31	3.3	<0.01	1.2	<0.1	0.13	7	<0.5	0.7
DUP 2012-031	QC	21	1.30	0.064	6	2	0.42	33	0.068	<20	2.52	0.163	0.32	3.6	<0.01	1.2	<0.1	0.14	7	<0.5	0.4
Reference Materials																					
STD CDN-PGMS-19	Standard																				
STD CDN-PGMS-19	Standard																				
STD CDN-PGMS-19	Standard																				
STD DS9	Standard	45	0.81	0.096	14	135	0.70	358	0.141	<20	1.07	0.091	0.45	2.9	0.25	2.6	6.5	0.19	5	7.1	5.8
STD DS9	Standard																				
STD OREAS45CA	Standard	212	0.43	0.039	18	625	0.17	173	0.158	<20	3.82	0.010	0.08	<0.1	0.03	45.4	<0.1	<0.05	19	0.5	<0.2
STD OREAS45CA	Standard																				
STD PD1	Standard																				
STD PD1	Standard																				
STD PD1	Standard																				
STD PD1 Expected																					
STD CDN-PGMS-19																					
STD DS9 Expected		40	0.776	0.0844	15.7	119	0.6437	308	0.1239		0.9915	0.0905	0.3874	3	0.225	2.8	5.48	0.1737	4.84	5.4	5
STD OREAS45CA Expected		215	0.4265	0.0385	15.6	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5	
BLK	Blank	<2	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																				
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	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
2012-001	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 2012-001	QC																				
2012-013	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 2012-013	QC																				
2012-023	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 2012-023	QC																				
Core Reject Duplicates																					
2012-031	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
DUP 2012-031	QC	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Reference Materials																					
STD CDN-PGMS-19	Standard																				
STD CDN-PGMS-19	Standard																				
STD CDN-PGMS-19	Standard																				
STD DS9	Standard																				
STD DS9	Standard	12.42	117.4	139.7	331.3	1963	42.2	8.0	580	2.37	26.7	2.7	165.2	5.7	75.7	2.57	4.66	7.60	37	0.70	0.088
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard	0.77	491.6	19.24	56.7	287	246.0	88.9	897	15.69	3.3	1.1	52.4	6.3	15.5	0.11	0.12	0.17	213	0.40	0.038
STD PD1	Standard																				
STD PD1	Standard																				
STD PD1	Standard																				
STD PD1 Expected																					
STD CDN-PGMS-19																					
STD DS9 Expected		12.74	104	126	322	1690	39.5	7.6	586	2.37	27	2.9	102	7.15	76.1	2.3	4.84	5.78	40	0.776	0.0844
STD OREAS45CA Expected		1	494	20	60	275	240	92	943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265	0.0385
BLK	Blank																				
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	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
2012-001	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 2012-001	QC																				
2012-013	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 2012-013	QC																				
2012-023	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 2012-023	QC																				
Core Reject Duplicates																					
2012-031	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
DUP 2012-031	QC	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Reference Materials																					
STD CDN-PGMS-19	Standard																				
STD CDN-PGMS-19	Standard																				
STD CDN-PGMS-19	Standard																				
STD DS9	Standard																				
STD DS9	Standard	12.8	128.7	0.62	361.2	0.117	<20	0.94	0.081	0.40	2.8	2.6	5.91	0.16	211	5.2	5.15	4.7	2.63	<0.1	0.07
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard	15.4	677.4	0.14	159.9	0.142	<20	3.56	0.009	0.07	<0.1	41.6	0.05	<0.02	23	0.2	0.06	17.8	1.06	<0.1	0.52
STD PD1	Standard																				
STD PD1	Standard																				
STD PD1	Standard																				
STD PD1 Expected																					
STD CDN-PGMS-19																					
STD DS9 Expected		15.7	119	0.6437	308	0.1239		0.9915	0.0905	0.3874	3	2.8	5.48	0.1737	225	5.4	5	4.84	2.48	0.1	0.11
STD OREAS45CA Expected		15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11	0.5
BLK	Blank																				
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QUALITY CONTROL REPORT VAN12002344.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Se	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
2012-001	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 2012-001	QC													
2012-013	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 2012-013	QC													
2012-023	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 2012-023	QC													
Core Reject Duplicates														
2012-031	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
DUP 2012-031	QC	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Reference Materials														
STD CDN-PGMS-19	Standard													
STD CDN-PGMS-19	Standard													
STD CDN-PGMS-19	Standard													
STD DS9	Standard													
STD DS9	Standard	1.02	35.1	7.3	<0.05	2.0	5.67	25.2	2.29	60	5.8	26.9	122	368
STD OREAS45CA	Standard													
STD OREAS45CA	Standard	0.24	8.5	1.8	<0.05	21.9	7.58	34.4	0.07	<1	0.7	6.2	34	53
STD PD1	Standard													
STD PD1	Standard													
STD PD1	Standard													
STD PD1 Expected														
STD CDN-PGMS-19														
STD DS9 Expected		1.38	35	6.4	0.003	2	7.5	28.97	2.21	55	5.9	27.25	130	320
STD OREAS45CA Expected		0.22	8.2	1.8		21.6	7.84	35	0.09			6.2	36	61
BLK	Blank													
BLK	Blank													
BLK	Blank													
BLK	Blank													

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Project: JI
Report Date: June 08, 2012

QUALITY CONTROL REPORT VAN12002344.1

		WGHT	3B	3B	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1
BLK	Blank		<2	<3	<2																
BLK	Blank		<2	5	<2																
BLK	Blank		<2	<3	<2																
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	<2	<3	<2	<0.1	2.4	3.2	47	<0.1	2.7	4.0	595	2.06	<0.5	<0.5	5.6	76	<0.1	0.1	<0.1
G1	Prep Blank	<0.01	<2	<3	<2	<0.1	2.3	2.9	44	<0.1	2.1	3.8	555	1.93	0.5	<0.5	5.4	69	<0.1	<0.1	<0.1

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		1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001	1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Sc ppm 0.1	1DX Tl ppm 0.1	1DX S % 0.05	1DX Ga ppm 1	1DX Se ppm 0.5	1DX Te ppm 0.2
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	41	0.52	0.076	13	4	0.52	169	0.152	<20	0.96	0.091	0.51	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	39	0.48	0.072	12	4	0.49	161	0.142	<20	0.90	0.084	0.49	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2

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		1F Mo ppm 0.01	1F Cu ppm 0.01	1F Pb ppm 0.01	1F Zn ppm 0.1	1F Ag ppb 2	1F Ni ppm 0.1	1F Co ppm 0.1	1F Mn ppm 1	1F Fe % 0.01	1F As ppm 0.1	1F U ppm 0.1	1F Au ppb 0.2	1F Th ppm 0.1	1F Sr ppm 0.5	1F Cd ppm 0.01	1F Sb ppm 0.02	1F Bi ppm 0.02	1F V ppm 2	1F Ca % 0.01	1F P % 0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	0.10	2.60	3.07	52.8	27	2.6	4.1	515	2.11	0.5	1.6	2.2	5.6	75.6	0.01	0.11	0.08	38	0.53	0.088
G1	Prep Blank	0.11	2.72	3.13	47.8	17	2.4	4.0	559	1.99	0.3	1.5	<0.2	5.4	66.6	<0.01	0.05	0.07	36	0.50	0.073

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		1F La ppm 0.5	1F Cr ppm 0.5	1F Mg % 0.01	1F Ba ppm 0.5	1F Ti % 0.001	1F B ppm 20	1F Al % 0.01	1F Na % 0.001	1F K % 0.01	1F W ppm 0.1	1F Sc ppm 0.1	1F Tl ppm 0.02	1F S % 0.02	1F Hg ppb 5	1F Se ppm 0.1	1F Te ppm 0.02	1F Ga ppm 0.1	1F Cs ppm 0.02	1F Ge ppm 0.1	1F Hf ppm 0.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
Prep Wash																					
G1	Prep Blank	13.9	4.4	0.53	199.0	0.144	<20	1.00	0.097	0.52	<0.1	2.9	0.37	<0.02	<5	<0.1	<0.02	5.4	3.32	0.1	0.12
G1	Prep Blank	11.7	4.0	0.51	169.8	0.136	<20	0.93	0.085	0.49	<0.1	2.6	0.33	<0.02	<5	<0.1	<0.02	4.8	2.91	0.1	0.09

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		1F Nb ppm 0.02	1F Rb ppm 0.1	1F Sn ppm 0.1	1F Ta ppm 0.05	1F Zr ppm 0.1	1F Y ppm 0.01	1F Ce ppm 0.1	1F In ppm 0.02	1F Re ppb 1	1F Be ppm 0.1	1F Li ppm 0.1	1F Pd ppb 10	1F Pt ppb 2
BLK	Blank													
BLK	Blank													
BLK	Blank													
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
Prep Wash														
G1	Prep Blank	0.44	47.4	0.7	<0.05	1.6	5.91	23.9	<0.02	<1	0.3	33.4	<10	<2
G1	Prep Blank	0.40	42.8	0.5	<0.05	1.4	5.40	21.3	<0.02	<1	0.2	30.6	<10	<2

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Submitted By: Don Bragg
Receiving Lab: Canada-Vancouver
Received: May 22, 2012
Report Date: May 29, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN12002345.1

CLIENT JOB INFORMATION

Project: JI
Shipment ID:
P.O. Number
Number of Samples: 24

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	24	Dry at 60C			VAN
SS80	24	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	24	Saving all or part of Soil Reject			VAN
3B02	24	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
1DX1	24	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
1F04	11	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Bragg, Don
6588 152nd Street
Surrey BC V3S 3L1
Canada

CC: Barry Price

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Bragg, Don**
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Project: JI
Report Date: May 29, 2012

CERTIFICATE OF ANALYSIS VAN12002345.1

	Method	3B	3B	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	2	3	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
2012-002	Soil	26	<3	<2	10.0	35.2	6.2	28	0.2	5.4	9.6	173	2.88	12.1	31.2	2.5	26	0.2	<0.1	<0.1	66
A0 B	Soil	<2	<3	<2	1.8	20.2	12.5	71	0.1	9.7	18.4	2957	2.37	1.2	<0.5	0.9	16	0.2	0.1	0.2	48
A1 B	Soil	<2	<3	<2	1.3	8.2	3.6	47	0.1	7.9	5.0	120	1.88	1.0	<0.5	0.8	11	<0.1	<0.1	<0.1	54
A2 B	Soil	<2	<3	<2	1.3	11.0	3.5	21	0.2	8.2	5.9	116	1.73	0.8	1.2	1.6	8	<0.1	<0.1	<0.1	47
A3 B	Soil	<2	<3	2	1.3	9.2	5.4	39	0.1	6.8	5.5	179	2.62	1.2	<0.5	1.2	8	<0.1	<0.1	<0.1	65
A4 B	Soil	<2	<3	5	0.5	16.3	3.8	45	0.3	8.6	5.7	160	1.84	1.3	<0.5	1.6	10	<0.1	<0.1	<0.1	54
A5 B	Soil	<2	<3	3	1.3	14.9	5.0	48	0.2	8.6	6.8	293	2.46	1.8	0.9	1.3	10	0.1	<0.1	<0.1	61
A6 B	Soil	<2	6	<2	1.3	11.8	4.3	43	0.1	8.3	5.6	206	2.68	1.2	<0.5	1.1	8	0.1	<0.1	<0.1	69
A7 B	Soil	<2	6	<2	2.1	13.8	6.6	49	0.2	8.8	9.1	324	4.13	2.7	<0.5	1.6	12	0.1	<0.1	<0.1	93
A8 B	Soil	<2	5	<2	0.9	28.6	8.9	31	0.2	4.8	8.8	606	1.19	2.8	0.9	<0.1	18	<0.1	<0.1	<0.1	25
A9 B	Soil	3	3	3	3.6	19.3	5.6	40	0.2	12.9	11.7	244	2.91	0.9	<0.5	0.6	22	<0.1	<0.1	<0.1	77
A10 B	Soil	<2	3	4	2.7	11.5	5.5	27	0.1	8.2	6.5	188	2.77	1.5	<0.5	1.0	13	<0.1	<0.1	<0.1	65
2012 SS01	Soil	7	8	7	10.5	21.2	2.8	41	<0.1	10.9	11.3	264	3.24	4.1	7.1	2.0	20	<0.1	<0.1	<0.1	80
A0 AH	Soil	<2	4	2	1.5	12.4	10.5	43	0.1	7.7	11.2	736	1.72	1.3	<0.5	0.5	21	<0.1	0.2	<0.1	44
A1 AH	Soil	<2	<3	4	0.5	2.0	2.4	8	<0.1	1.4	1.3	76	1.14	0.5	<0.5	0.7	12	<0.1	<0.1	<0.1	36
A2 AH	Soil	<2	3	<2	2.1	7.9	7.9	18	0.2	5.4	2.8	73	1.46	1.7	1.5	0.6	15	<0.1	<0.1	<0.1	38
A3 AH	Soil	<2	<3	4	0.7	9.4	12.7	27	0.1	5.5	3.3	127	1.74	2.0	<0.5	0.5	12	<0.1	0.1	<0.1	48
A4 AH	Soil	<2	3	4	0.5	9.2	12.6	33	0.1	5.6	3.2	124	1.63	2.6	<0.5	0.4	14	<0.1	0.1	<0.1	44
A5 AH	Soil	<2	<3	<2	1.2	12.5	10.9	40	0.2	7.9	5.6	252	2.06	1.8	2.1	0.8	10	<0.1	0.1	<0.1	53
A6 AH	Soil	<2	5	5	1.1	6.6	11.5	23	<0.1	5.5	2.9	147	1.86	3.6	<0.5	0.4	12	<0.1	0.2	<0.1	57
A7 AH	Soil	<2	<3	3	1.0	12.8	8.7	34	0.2	6.7	4.9	483	1.74	2.4	<0.5	0.6	10	0.1	0.1	<0.1	51
A8 AH	Soil	<2	<3	<2	1.0	12.9	9.2	32	<0.1	4.5	12.8	1026	1.47	2.9	2.6	0.2	11	<0.1	<0.1	<0.1	34
A9 AH	Soil	<2	<3	6	3.4	18.2	7.0	38	0.2	9.4	10.7	287	2.34	0.7	<0.5	0.4	26	0.2	<0.1	<0.1	63
A10 AH	Soil	<2	<3	4	1.1	9.4	6.6	27	<0.1	5.4	4.1	433	1.61	1.0	0.6	0.5	17	<0.1	<0.1	<0.1	46

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Client: **Bragg, Don**
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Project: JI
Report Date: May 29, 2012

CERTIFICATE OF ANALYSIS VAN12002345.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1F
Analyte		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Mo
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01
2012-002	Soil	0.32	0.132	6	14	0.07	50	0.075	<20	>10	0.006	0.01	0.3	0.23	3.5	<0.1	<0.05	8	2.1	<0.2	N.A.
A0 B	Soil	0.17	0.049	9	14	0.19	103	0.093	<20	2.48	0.010	0.04	<0.1	0.16	2.1	0.1	<0.05	8	0.6	<0.2	N.A.
A1 B	Soil	0.14	0.017	3	14	0.21	52	0.110	<20	1.40	0.011	0.03	<0.1	0.06	1.3	<0.1	<0.05	7	<0.5	<0.2	N.A.
A2 B	Soil	0.09	0.027	4	16	0.24	35	0.076	<20	2.45	0.012	0.03	0.2	0.11	2.0	<0.1	<0.05	4	0.6	<0.2	N.A.
A3 B	Soil	0.09	0.022	4	15	0.22	45	0.119	<20	1.60	0.009	0.02	<0.1	0.05	1.4	<0.1	<0.05	9	<0.5	<0.2	N.A.
A4 B	Soil	0.10	0.050	5	16	0.28	53	0.090	<20	2.66	0.011	0.03	0.2	0.10	2.2	<0.1	<0.05	6	1.0	<0.2	N.A.
A5 B	Soil	0.10	0.058	5	18	0.30	75	0.100	<20	2.83	0.012	0.05	0.1	0.09	2.4	<0.1	<0.05	7	<0.5	<0.2	N.A.
A6 B	Soil	0.08	0.027	4	15	0.23	55	0.127	<20	1.90	0.009	0.03	<0.1	0.08	1.5	<0.1	<0.05	8	<0.5	<0.2	N.A.
A7 B	Soil	0.13	0.065	5	26	0.26	67	0.177	<20	3.56	0.011	0.04	<0.1	0.16	2.7	<0.1	<0.05	13	1.7	<0.2	N.A.
A8 B	Soil	0.12	0.105	4	7	0.13	59	0.037	<20	1.02	0.010	0.03	<0.1	0.16	0.6	<0.1	<0.05	7	<0.5	<0.2	N.A.
A9 B	Soil	0.19	0.026	11	18	0.53	131	0.178	<20	2.97	0.014	0.08	0.2	0.07	2.7	0.1	<0.05	9	<0.5	<0.2	N.A.
A10 B	Soil	0.15	0.033	4	18	0.24	73	0.114	<20	2.72	0.010	0.03	<0.1	0.08	2.1	<0.1	<0.05	9	<0.5	<0.2	N.A.
2012 SS01	Soil	0.25	0.027	3	18	0.66	47	0.154	<20	3.22	0.024	0.05	0.2	0.04	2.8	<0.1	<0.05	7	<0.5	<0.2	N.A.
A0 AH	Soil	0.27	0.046	7	12	0.23	76	0.080	<20	2.33	0.009	0.04	<0.1	0.14	1.8	<0.1	<0.05	5	0.9	<0.2	1.06
A1 AH	Soil	0.12	0.005	3	6	0.04	42	0.048	<20	0.29	0.009	0.01	<0.1	0.03	0.7	<0.1	<0.05	3	0.8	<0.2	0.42
A2 AH	Soil	0.11	0.036	3	12	0.15	40	0.059	<20	1.40	0.008	0.02	0.1	0.10	1.3	<0.1	<0.05	4	<0.5	<0.2	1.03
A3 AH	Soil	0.11	0.043	5	13	0.18	38	0.065	<20	1.30	0.007	0.03	0.1	0.10	1.5	<0.1	<0.05	5	<0.5	<0.2	0.81
A4 AH	Soil	0.11	0.054	3	13	0.18	55	0.055	<20	1.39	0.010	0.02	0.1	0.11	1.4	<0.1	<0.05	5	<0.5	<0.2	0.42
A5 AH	Soil	0.09	0.053	5	15	0.27	64	0.085	<20	2.28	0.010	0.04	0.1	0.13	2.0	<0.1	<0.05	6	0.7	<0.2	1.21
A6 AH	Soil	0.12	0.038	5	12	0.15	45	0.086	<20	0.96	0.009	0.03	0.1	0.13	1.0	<0.1	<0.05	6	<0.5	<0.2	1.05
A7 AH	Soil	0.11	0.044	5	14	0.26	59	0.093	<20	1.82	0.012	0.04	<0.1	0.13	1.8	<0.1	<0.05	7	<0.5	<0.2	0.93
A8 AH	Soil	0.12	0.099	4	8	0.18	52	0.052	<20	1.14	0.010	0.03	0.1	0.14	1.3	<0.1	<0.05	6	0.6	<0.2	0.96
A9 AH	Soil	0.27	0.031	14	14	0.43	97	0.128	<20	2.42	0.013	0.06	0.1	0.09	2.5	0.1	<0.05	8	1.4	<0.2	3.38
A10 AH	Soil	0.21	0.030	4	12	0.23	62	0.067	<20	1.41	0.019	0.05	<0.1	0.10	1.6	<0.1	<0.05	5	0.8	<0.2	1.11

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Project: JI
Report Date: May 29, 2012

CERTIFICATE OF ANALYSIS VAN12002345.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5
2012-002	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A0 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A1 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A2 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A3 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A4 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A5 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A6 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A7 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A8 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A9 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A10 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012 SS01	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A0 AH	Soil	9.22	8.22	33.3	79	6.2	8.7	578	1.56	1.5	0.5	0.9	0.3	17.2	0.11	0.11	0.10	37	0.20	0.040	5.9
A1 AH	Soil	2.05	2.06	7.6	59	1.4	1.2	67	1.02	0.3	0.1	0.4	0.5	11.5	0.03	0.03	0.06	31	0.09	0.007	2.2
A2 AH	Soil	7.70	7.81	19.2	138	5.1	2.6	70	1.32	1.6	0.2	0.3	0.4	15.7	0.10	0.11	0.09	30	0.11	0.039	3.0
A3 AH	Soil	8.53	11.74	27.1	135	5.4	2.8	130	1.55	1.8	0.3	0.5	0.2	12.4	0.06	0.15	0.10	38	0.09	0.039	4.1
A4 AH	Soil	8.13	11.29	28.3	126	5.0	2.8	114	1.53	2.0	0.2	0.2	0.2	13.3	0.06	0.12	0.08	38	0.09	0.058	2.6
A5 AH	Soil	11.36	9.45	36.6	144	6.7	5.1	222	1.94	1.8	0.6	0.4	0.6	9.3	0.09	0.12	0.08	47	0.08	0.058	4.7
A6 AH	Soil	6.76	11.63	25.4	80	5.0	2.9	156	1.81	3.9	0.2	<0.2	0.3	12.4	0.04	0.14	0.13	52	0.11	0.042	5.1
A7 AH	Soil	11.37	7.88	29.3	134	5.9	4.4	424	1.72	1.8	0.4	0.5	0.4	10.5	0.09	0.12	0.07	45	0.10	0.042	4.2
A8 AH	Soil	11.36	7.95	28.2	96	4.4	12.2	896	1.40	2.3	0.3	0.5	<0.1	10.2	0.08	0.10	0.08	28	0.10	0.085	3.4
A9 AH	Soil	18.71	6.82	38.6	165	9.9	10.8	310	2.15	0.7	1.0	<0.2	0.3	26.6	0.21	0.10	0.07	58	0.25	0.033	14.3
A10 AH	Soil	10.03	5.76	27.4	55	5.7	3.6	439	1.51	1.1	0.3	0.2	0.3	15.7	0.07	0.09	0.05	40	0.18	0.027	3.3

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Report Date: May 29, 2012

CERTIFICATE OF ANALYSIS VAN12002345.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.01	0.6	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
2012-002	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A0 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A1 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A2 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A3 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A4 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A5 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A6 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A7 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A8 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A9 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A10 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012 SS01	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A0 AH	Soil	10.5	0.16	59.5	0.060	<20	1.86	0.004	0.04	<0.1	1.5	0.05	0.03	120	0.4	<0.02	4.3	0.81	<0.1	<0.02	0.78
A1 AH	Soil	6.1	0.03	38.7	0.034	<20	0.25	0.008	0.01	<0.1	0.7	<0.02	<0.02	26	<0.1	<0.02	2.2	0.11	<0.1	<0.02	0.44
A2 AH	Soil	11.0	0.12	39.3	0.051	<20	1.26	0.005	0.02	0.1	1.1	0.03	0.05	109	0.4	<0.02	3.8	0.47	<0.1	<0.02	0.90
A3 AH	Soil	11.8	0.15	34.0	0.057	<20	1.17	0.005	0.03	0.1	1.3	0.03	0.06	108	0.4	0.03	4.7	0.67	<0.1	<0.02	1.03
A4 AH	Soil	11.8	0.15	46.2	0.047	<20	1.25	0.006	0.02	0.1	1.3	0.03	0.06	104	0.2	<0.02	4.3	0.58	<0.1	<0.02	0.85
A5 AH	Soil	13.8	0.20	54.6	0.068	<20	2.08	0.006	0.04	0.1	1.7	0.05	0.04	124	0.3	<0.02	5.6	0.86	<0.1	0.03	1.14
A6 AH	Soil	13.2	0.13	44.5	0.079	<20	0.89	0.007	0.03	0.1	1.0	0.03	0.04	126	0.3	<0.02	5.8	0.79	<0.1	<0.02	1.30
A7 AH	Soil	13.2	0.19	50.0	0.077	<20	1.62	0.008	0.04	<0.1	1.6	0.05	0.04	123	0.5	0.03	5.7	0.73	<0.1	<0.02	1.14
A8 AH	Soil	7.6	0.13	48.3	0.044	<20	0.97	0.007	0.03	<0.1	0.9	0.03	0.04	132	0.3	0.04	5.0	0.64	<0.1	<0.02	0.54
A9 AH	Soil	15.6	0.44	97.7	0.119	<20	2.20	0.009	0.06	0.1	2.6	0.10	0.04	86	1.0	0.02	7.8	1.37	<0.1	<0.02	1.34
A10 AH	Soil	11.4	0.18	56.1	0.060	<20	1.25	0.008	0.05	<0.1	1.4	0.03	0.04	91	0.2	<0.02	4.5	0.72	<0.1	<0.02	0.82

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Project: JI
Report Date: May 29, 2012

CERTIFICATE OF ANALYSIS VAN12002345.1

Method		1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
Analyte		Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2012-002	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A0 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A1 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A2 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A3 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A4 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A5 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A6 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A7 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A8 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A9 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A10 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2012 SS01	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
A0 AH	Soil	6.3	0.4	<0.05	0.5	3.26	10.7	<0.02	<1	0.4	9.1	<10	<2
A1 AH	Soil	1.8	0.3	<0.05	0.2	0.89	4.4	<0.02	<1	<0.1	1.0	<10	<2
A2 AH	Soil	3.3	0.3	<0.05	0.6	1.06	5.7	<0.02	<1	0.1	6.7	<10	<2
A3 AH	Soil	5.9	0.5	<0.05	0.6	1.53	6.6	<0.02	<1	0.2	7.2	<10	<2
A4 AH	Soil	4.1	0.4	<0.05	0.6	1.10	5.4	<0.02	<1	0.2	7.0	<10	<2
A5 AH	Soil	6.4	0.4	<0.05	0.8	2.48	9.7	<0.02	<1	0.2	11.9	<10	<2
A6 AH	Soil	5.0	0.5	<0.05	0.5	1.87	6.7	<0.02	<1	0.1	6.4	<10	<2
A7 AH	Soil	7.1	0.4	<0.05	0.6	2.28	8.0	<0.02	<1	0.2	8.5	<10	<2
A8 AH	Soil	4.3	0.4	<0.05	0.2	1.55	6.1	<0.02	<1	0.3	5.5	<10	<2
A9 AH	Soil	10.9	0.5	<0.05	0.5	10.89	16.2	<0.02	<1	1.1	23.8	<10	<2
A10 AH	Soil	9.0	0.4	<0.05	0.4	1.81	5.9	<0.02	<1	0.3	7.4	<10	<2

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Project: JI
Report Date: May 29, 2012

QUALITY CONTROL REPORT VAN12002345.1

	Method	3B	3B	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	2	3	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
Pulp Duplicates																					
A4 B	Soil	<2	<3	5	0.5	16.3	3.8	45	0.3	8.6	5.7	160	1.84	1.3	<0.5	1.6	10	<0.1	<0.1	<0.1	54
REP A4 B	QC	<2	<3	4																	
A10 B	Soil	<2	3	4	2.7	11.5	5.5	27	0.1	8.2	6.5	188	2.77	1.5	<0.5	1.0	13	<0.1	<0.1	<0.1	65
REP A10 B	QC				2.7	10.9	5.0	27	0.1	8.7	6.3	180	2.66	1.6	<0.5	1.0	13	<0.1	<0.1	<0.1	64
A3 AH	Soil	<2	<3	4	0.7	9.4	12.7	27	0.1	5.5	3.3	127	1.74	2.0	<0.5	0.5	12	<0.1	0.1	<0.1	48
REP A3 AH	QC																				
Reference Materials																					
STD DS9	Standard				14.0	105.8	131.2	333	1.8	40.2	7.8	594	2.54	25.6	109.4	6.9	70	2.7	4.6	5.6	45
STD DS9	Standard																				
STD OREAS45CA	Standard				1.0	526.5	21.3	65	0.3	257.8	93.3	954	16.97	4.2	47.1	7.4	15	<0.1	0.1	0.1	212
STD OREAS45CA	Standard																				
STD PD1	Standard	559	494	580																	
STD PD1	Standard	591	514	615																	
STD OREAS45CA Expected					1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215
STD DS9 Expected					12.74	104	126	322	1.69	39.5	7.6	586	2.37	27	102	7.15	76.1	2.3	4.84	6.78	40
STD PD1 Expected		542	456	563																	
BLK	Blank				<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2
BLK	Blank																				
BLK	Blank	<2	4	3																	
BLK	Blank	<2	3	<2																	

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Project: JI
Report Date: May 29, 2012

QUALITY CONTROL REPORT VAN12002345.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1F
	Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Mo
	Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01
Pulp Duplicates																					
A4 B	Soil	0.10	0.050	5	16	0.28	53	0.090	<20	2.66	0.011	0.03	0.2	0.10	2.2	<0.1	<0.05	6	1.0	<0.2	N.A.
REP A4 B	QC																				
A10 B	Soil	0.15	0.033	4	18	0.24	73	0.114	<20	2.72	0.010	0.03	<0.1	0.08	2.1	<0.1	<0.05	9	<0.5	<0.2	N.A.
REP A10 B	QC	0.15	0.030	4	16	0.24	66	0.115	<20	2.56	0.010	0.03	<0.1	0.09	2.1	<0.1	<0.05	8	0.7	<0.2	
A3 AH	Soil	0.11	0.043	5	13	0.18	36	0.065	<20	1.30	0.007	0.03	0.1	0.10	1.5	<0.1	<0.05	5	<0.5	<0.2	0.81
REP A3 AH	QC																				0.80
Reference Materials																					
STD DS9	Standard	0.75	0.085	14	121	0.64	339	0.116	<20	1.00	0.062	0.39	3.1	0.20	2.7	5.7	0.09	5	5.6	5.2	
STD DS9	Standard																				13.44
STD OREAS45CA	Standard	0.45	0.037	17	814	0.15	176	0.138	<20	3.70	0.012	0.08	<0.1	0.04	41.7	<0.1	<0.05	20	1.7	<0.2	
STD OREAS45CA	Standard																				0.97
STD PD1	Standard																				
STD PD1	Standard																				
STD OREAS45CA Expected		0.4285	0.0365	15.9	709	0.1358	164	0.126		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5		1
STD DS9 Expected		0.776	0.0844	15.7	119	0.6437	308	0.1239		0.9915	0.0905	0.3874	3	0.225	2.8	5.48	0.1737	4.84	5.4	5	12.74
STD PD1 Expected																					
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																				<0.01
BLK	Blank																				
BLK	Blank																				

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Page: 1 of 1 Part: 3 of 5

QUALITY CONTROL REPORT VAN12002345.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5
Pulp Duplicates																					
A4 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP A4 B	QC																				
A10 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP A10 B	QC																				
A3 AH	Soil	8.53	11.74	27.1	135	5.4	2.8	130	1.55	1.8	0.3	0.5	0.2	12.4	0.06	0.15	0.10	38	0.09	0.039	4.1
REP A3 AH	QC	9.82	13.18	27.4	148	5.8	3.2	130	1.59	1.9	0.3	<0.2	0.2	14.2	0.07	0.16	0.10	38	0.11	0.042	4.3
Reference Materials																					
STD DS9	Standard																				
STD DS9	Standard	109.8	127.3	324.7	1778	41.6	7.3	602	2.45	25.7	2.6	100.5	6.2	70.2	2.46	4.48	6.56	42	0.76	0.082	13.5
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard	519.9	20.05	62.5	283	269.1	91.2	961	17.24	3.7	1.2	38.1	6.5	15.5	0.12	0.13	0.22	232	0.40	0.044	15.8
STD PD1	Standard																				
STD PD1	Standard																				
STD OREAS45CA Expected		494	20	60	275	240	92	943	15.69	3.8	1.2	43	7	15	0.1	0.13	0.19	215	0.4265	0.0385	15.9
STD DS9 Expected		104	126	322	1690	39.5	7.6	585	2.37	27	2.9	102	7.15	76.1	2.3	4.84	6.78	40	0.776	0.0844	15.7
STD PD1 Expected																					
BLK	Blank																				
BLK	Blank	<0.01	0.04	0.3	3	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5
BLK	Blank																				
BLK	Blank																				

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QUALITY CONTROL REPORT VAN12002345.1

		Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
Pulp Duplicates																						
A4 B	Soil		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP A4 B	QC																					
A10 B	Soil		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP A10 B	QC																					
A3 AH	Soil		11.8	0.15	34.0	0.057	<20	1.17	0.005	0.03	0.1	1.3	0.03	0.06	106	0.4	0.03	4.7	0.67	<0.1	<0.02	1.03
REP A3 AH	QC		13.2	0.16	37.3	0.064	<20	1.27	0.006	0.03	0.1	1.3	0.04	0.07	124	0.4	0.02	5.1	0.74	<0.1	<0.02	1.10
Reference Materials																						
STD DS9	Standard																					
STD DS9	Standard		117.9	0.67	296.5	0.105	<20	0.99	0.088	0.41	2.9	2.8	5.47	0.18	204	5.8	5.10	4.7	2.60	<0.1	0.07	1.09
STD OREAS45CA	Standard																					
STD OREAS45CA	Standard		773.1	0.12	158.4	0.128	<20	3.72	0.010	0.08	<0.1	45.0	0.07	<0.02	30	0.5	0.08	20.2	1.25	0.2	0.61	0.30
STD PD1	Standard																					
STD PD1	Standard																					
STD OREAS45CA Expected			709	0.1358	164	0.128		3.592	0.0075	0.0717		39.7	0.07	0.021	30	0.5	0.06	18.4	1.03	0.11	0.5	0.22
STD DS9 Expected			119	0.6437	308	0.1239		0.9915	0.0905	0.3874	3	2.8	5.48	0.1737	225	5.4	5	4.84	2.48	0.1	0.11	1.82
STD PD1 Expected																						
BLK	Blank																					
BLK	Blank		<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02
BLK	Blank																					
BLK	Blank																					

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Report Date: May 29, 2012

QUALITY CONTROL REPORT VAN12002345.1

	Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
	Analyte	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates													
A4 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP A4 B	QC												
A10 B	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP A10 B	QC												
A3 AH	Soil	5.9	0.5	<0.05	0.6	1.53	6.6	<0.02	<1	0.2	7.2	<10	<2
REP A3 AH	QC	6.1	0.5	<0.05	0.6	1.71	7.2	<0.02	<1	0.1	7.7	<10	<2
Reference Materials													
STD DS9	Standard												
STD DS9	Standard	34.3	7.0	<0.05	2.0	5.66	23.6	2.46	53	5.3	25.3	115	376
STD OREAS45CA	Standard												
STD OREAS45CA	Standard	9.5	2.0	<0.05	24.6	8.40	34.1	0.12	<1	0.5	7.2	44	61
STD PD1	Standard												
STD PD1	Standard												
STD OREAS45CA Expected		8.2	1.8		21.6	7.84	35	0.09			6.2	36	61
STD DS9 Expected		35	6.4	0.003	2.2	7.5	28.97	2.21	55	5.9	27.25	130	320
STD PD1 Expected													
BLK	Blank												
BLK	Blank	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank												
BLK	Blank												

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Submitted By: Don Bragg
Receiving Lab: Canada-Vancouver
Received: May 22, 2012
Report Date: June 05, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN12002346.1

CLIENT JOB INFORMATION

Project: JI
Shipment ID:
P.O. Number
Number of Samples: 1

SAMPLE DISPOSAL

RTRN-PLP Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
P200	1	Pulverize to 85% passing 200 mesh			VAN
3B02	1	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
1EX	1	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Bragg, Don
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Canada

CC: Barry Price

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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CERTIFICATE OF ANALYSIS VAN12002346.1

	Method	3B	3B	3B	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	2	3	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1
2012 HM ST.S01	Pan Con	7	<3	<2	0.5	6.7	5.1	38	<0.1	10.2	8.9	888	2.95	2	0.7	<0.1	2.1	386	<0.1	0.2	<0.1

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CERTIFICATE OF ANALYSIS VAN12002346.1

	Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc
	Unit	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	1	0.01	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1
2012 HM ST.S01	Pan Con	91	2.88	0.015	11.5	28	0.84	568	0.325	7.08	2.619	1.12	0.6	14.4	25	0.6	10.9	4.1	0.2	<1	10

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CERTIFICATE OF ANALYSIS VAN12002346.1

	Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Li	S	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.1	0.1	0.05	0.005	1	0.5	0.5
2012 HM ST.S01	Pan Con	11.4	<0.1	23.9	0.5	<0.05	<0.005	<1	<0.5	<0.5

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QUALITY CONTROL REPORT VAN12002346.1

	Method	3B	3B	3B	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi
	Unit	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	2	3	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1
Pulp Duplicates																					
REP G1	QC	<2	<3	<2	0.2	3.4	14.2	45	<0.1	3.8	4.7	725	2.21	<1	1.9	<0.1	5.9	642	<0.1	<0.1	0.1
Reference Materials																					
STD OREAS24P	Standard				1.4	45.7	2.1	105	<0.1	146.4	46.9	1062	7.02	<1	0.5	<0.1	2.3	328	<0.1	<0.1	<0.1
STD OREAS45C	Standard				2.1	615.1	21.4	81	0.3	335.3	108.9	1161	17.70	10	1.9	<0.1	9.2	27	0.1	0.6	0.2
STD PD1	Standard	532	457	566																	
STD PD1 Expected		542	456	563																	
STD OREAS24P Expected					1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09	
STD OREAS45C Expected					2.26	620	24	83	0.28	333	104	1160	18.33	10.1	2.4	0.045	10.2	36.4	0.15	0.79	0.21
BLK	Blank	<2	<3	<2																	
BLK	Blank				<0.1	0.1	0.4	<1	<0.1	0.2	<0.2	16	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1
Prep Wash																					
G1	Prep Blank	<2	<3	<2	0.2	3.5	15.7	46	<0.1	4.1	5.0	723	2.23	<1	2.2	<0.1	7.1	692	<0.1	0.1	0.2

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Project: JJ
Report Date: June 05, 2012

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QUALITY CONTROL REPORT VAN12002346.1

	Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc
	Unit	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	1	0.01	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1
Pulp Duplicates																					
REP G1	QC	46	2.33	0.068	19.5	13	0.56	1055	0.244	7.25	2.786	3.25	<0.1	11.1	43	1.1	12.9	23.2	1.2	3	5
Reference Materials																					
STD OREAS24P	Standard	151	5.56	0.114	15.1	210	3.90	230	1.028	7.29	2.325	0.62	0.4	119.2	31	1.1	18.3	17.6	0.9	1	19
STD OREAS45C	Standard	258	0.49	0.046	23.3	988	0.24	247	1.186	7.23	0.101	0.34	1.0	156.3	47	2.2	11.3	20.8	1.2	<1	59
STD PD1	Standard																				
STD PD1 Expected																					
STD OREAS24P Expected		158	5.83	0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	37.6	1.6	21.3	21	1.04		20
STD OREAS45C Expected		270	0.482	0.051	26.2	962	0.25	270	1.1313	7.59	0.097	0.36	1.06	169.7	54	2.9	12.9	23.05	1.43		59.03
BLK	Blank																				
BLK	Blank	<1	0.01	<0.001	<0.1	4	<0.01	<1	<0.001	0.05	0.005	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1
Prep Wash																					
G1	Prep Blank	47	2.37	0.067	22.4	12	0.57	1139	0.246	7.56	2.785	3.29	0.1	11.3	49	1.1	14.3	25.0	1.3	3	5

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QUALITY CONTROL REPORT VAN12002346.1

	Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Li	S	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates										
REP G1	QC	27.6	<0.1	97.9	0.6	<0.05	<0.005	<1	<0.5	0.8
Reference Materials										
STD OREAS24P	Standard	6.9	<0.1	18.0	2.9	<0.05	<0.005	<1	0.5	<0.5
STD OREAS45C	Standard	14.0	<0.1	21.5	3.8	0.11	<0.005	2	<0.5	<0.5
STD PD1	Standard									
STD PD1 Expected										
STD OREAS24P Expected		6.7		22.4	3.6					
STD OREAS45C Expected		15.69	0.021	24	4.27					
BLK	Blank									
BLK	Blank	<0.1	<0.1	0.5	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash										
G1	Prep Blank	26.7	<0.1	105.5	0.6	<0.05	<0.005	<1	<0.5	0.9

Geochemical
Aqua Regia Digestion

Groups 1D, 1DX
ICP-ES & ICP-MS

You can choose economically priced ICP-ES (Group 1D) or ICP-MS (Group 1DX) analysis to complement your exploration program.

Sample splits of 0.5g are leached in hot (95°C) Aqua Regia. Select a larger split size for more representative Au analysis. Refractory and graphitic samples can limit Au solubility.

Sample minimum 1g pulp.

Group 1D01	Cdn
34 elements	$9.40

Group 1D03	Cdn
Include Uranium	+$0.50

Code	Group 1DX	Cdn
1DX1	36 elements 0.5g	$15.75
1DX2	36 elements 15g	$19.95
1DX3	36 elements 30g	$23.60

Include U by request

	Group 1D Detection	Group 1DX Detection	Upper Limit
Ag*	0.3 ppm	0.1 ppm	100 ppm
Al*	0.01 %	0.01 %	10 %
As	2 ppm	0.5 ppm	10000 ppm
Au*	2 ppm	0.5 ppb	100 ppm
B*†	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	2000 ppm
Ca*	0.01 %	0.01 %	40 %
Cd	0.5 ppm	0.1 ppm	2000 ppm
Co	1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	10000 ppm
Fe*	0.01 %	0.01 %	40 %
Ga*	5 ppm	1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	50 ppm
K*	0.01 %	0.01 %	10 %
La*	1 ppm	1 ppm	10000 ppm
Mg*	0.01 %	0.01 %	30 %
Mn*	2 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	2000 ppm
Na*	0.01 %	0.001 %	5 %
Ni	1 ppm	0.1 ppm	10000 ppm
P*	0.001 %	0.001 %	5 %
Pb	3 ppm	0.1 ppm	10000 ppm
S*	0.05 %	0.05 %	10 %
Sb*	3 ppm	0.1 ppm	2000 ppm
Sc	5 ppm	0.1 ppm	100 ppm
Se	–	0.5 ppm	100 ppm
Sr*	1 ppm	1 ppm	10000 ppm
Te	–	0.2 ppm	1000 ppm
Th*	2 ppm	0.1 ppm	2000 ppm
Ti*	0.001 %	0.001 %	5 %
Tl	5 ppm	0.1 ppm	1000 ppm
V*	1 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	100 ppm
Zn	1 ppm	1 ppm	10000 ppm

*Solubility of some elements will be limited by mineral species present.

†Detection limit = 1 ppm for 15g / 30g analysis.

Geochemical
Ultratrace Aqua Regia Digestion

Group 1F-MS
Ultratrace by ICP Mass Spec

ICP Mass Spec analysis of a 0.5, 15 or 30g sample after Aqua Regia digestion for low to ultra-low determinations on soils, sediments and lean rocks.

Larger splits (15 or 30g) give a more representative analysis of elements subject to nugget effect (e.g. Au). Au solubility can be limited in refractory and graphitic samples.

Sample minimum 1g pulp.

AcmeLabs now offers analysis of Pb isotopes (Pb_{204}, Pb_{206}, Pb_{207}, Pb_{208}) suitable for geochemical exploration of U and other commodities where gross differences in natural to radiogenic Pb ratios, is a benefit. Isotope values can be reported in both concentrations and intensities.

Code	Group 1F-MS	Cdn
1F01	Basic Suite (37 elements) 0.5g	$19.40
1F02	Basic Suite (37 elements) 15g	$23.60
1F03	Basic Suite (37 elements) 30g	$27.30
+1F08	Pd and Pt (add on)	$2.10
+1F09	REEs (add on)	$6.30
1F04	Full Suite (53 elements) 0.5g	$22.85
1F05	Full Suite (53 elements) 15g	$27.05
1F06	Full Suite (53 elements) 30g	$30.70
+1F07	Lead isotope (add on with any Basic or Full Suite)	$12.60

*Some elements will report partial concentrations due to refractory minerals.

†Detection limit = 1 ppm for 15g / 30g analysis.

		Group 1F Detection	Upper Limit
Basic Suite	Au*	0.2 ppb	100 ppm
	Ag*	2 ppb	100 ppm
	Al*	0.01 %	10 %
	As	0.1 ppm	10000 ppm
	B*†	20 ppm	2000 ppm
	Ba*	0.5 ppm	10000 ppm
	Bi	0.02 ppm	2000 ppm
	Ca*	0.01 %	40 %
	Cd	0.01 ppm	2000 ppm
	Co	0.1 ppm	2000 ppm
	Cr*	0.5 ppm	10000 ppm
	Cu	0.01 ppm	10000 ppm
	Fe*	0.01 %	40 %
	Ga*	0.1 ppm	1000 ppm
	Hg	5 ppb	50 ppm
	K*	0.01 %	10 %
	La*	0.5 ppm	10000 ppm
	Mg*	0.01 %	30 %
	Mn*	1 ppm	10000 ppm
	Mo	0.01 ppm	2000 ppm
	Na*	0.001 %	5 %
	Ni*	0.1 ppm	10000 ppm
	P*	0.001 %	5 %
	Pb	0.01 ppm	10000 ppm
	S*	0.02 %	5 %
	Sb*	0.02 ppm	2000 ppm
	Sc*	0.1 ppm	100 ppm
	Se	0.1 ppm	100 ppm
	Sr*	0.5 ppm	10000 ppm
	Te	0.02 ppm	1000 ppm
	Th*	0.1 ppm	2000 ppm
	Ti*	0.001 %	5 %
	Tl	0.02 ppm	1000 ppm
	U*	0.05 ppm	2000 ppm
	V*	2 ppm	10000 ppm
	W*	0.05 ppm	100 ppm
	Zn	0.1 ppm	10000 ppm
Full Suite	Be*	0.1 ppm	1000 ppm
	Ce*	0.1 ppm	2000 ppm
	Cs*	0.02 ppm	2000 ppm
	Ge*	0.1 ppm	100 ppm
	Hf*	0.02 ppm	1000 ppm
	In	0.02 ppm	1000 ppm
	Li*	0.1 ppm	2000 ppm
	Nb*	0.02 ppm	2000 ppm
	Rb*	0.1 ppm	2000 ppm
	Re	1 ppb	10000 ppb
	Sn*	0.1 ppm	100 ppm
	Ta*	0.05 ppm	2000 ppm
	Y*	0.01 ppm	2000 ppm
	Zr*	0.1 ppm	2000 ppm
	Pt*	2 ppb	100 ppm
	Pd*	10 ppb	100 ppm