

Technical Report

Geochemical Analysis of Mineral Samples from Mineral Claims 514080,
568846, 570448, 573881, 582325 and Flotation Results from Mineral Claim 536855

Victoria and Nanaimo Mining Districts

092C

BC Geological Survey
Assessment Report
32286

UTM Co-ordinates ;

5398516N, 420512E
5418960N, 412434E
5374065N, 401049E

Owner of Claims Dean Arbic

Work Performed By Dean Arbic

Report Written By Dean Arbic

Event Number 4847085

Report Date May 31 2011

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Introduction and Claim History

Mineral Claim 514080 named Venatici is situated approximately 10 kilometers south of the Town of Port Renfrew. The claim is bordered to the south by the Juan De Fuca Marine Trail and to the north by NSR 366666. One creek flows through the claim, it is named Kuitshe Creek and has two small seasonal unnamed tributaries. There is very little exposed bedrock on the claim except along the banks of Kuitshe creek.

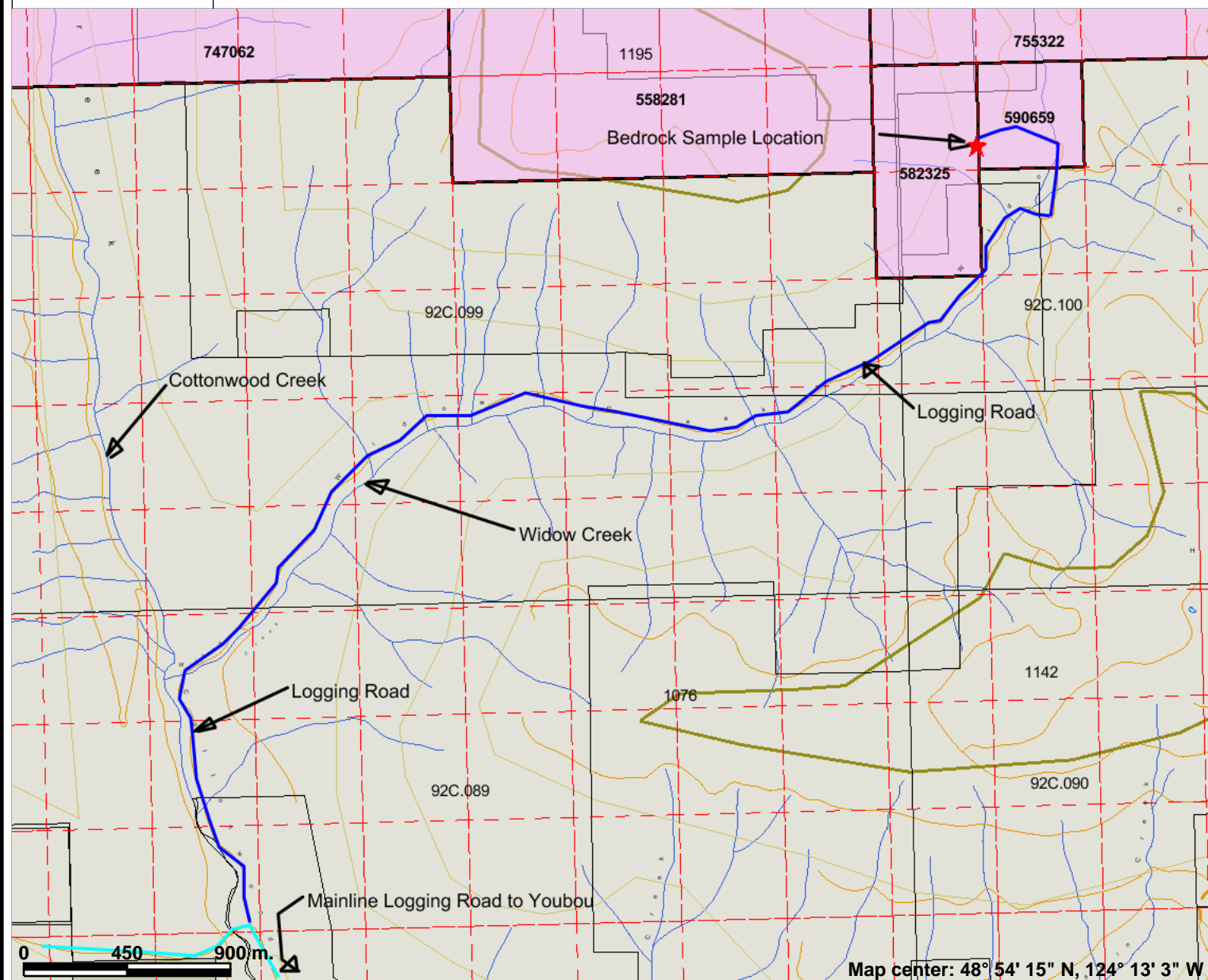
The Claim is accessed by driving west from Lake Cowichan along the Circle Route to Port Renfrew then south 10 km to a parking spot on the west side of the West Coast Road near the bridge over Minute Creek. There is an overgrown de-activated forestry road that is used as a hiking trail to access the claim. The trail is about 3 km in length.

Mineral Claim 582325 named Magnalium is situated approximately 8 kilometers north of the Town of Youbou. The claim is about a kilometer south of the El Capitan prospect and west of the head waters of Widow Creek. The claim also contains a rhodonite gemstone deposit.

The Claim is accessed by driving west past Youbou to Cottonwood Creek then travelling north along the logging road to and turning right where Widow Creek flows into Cottonwood Creek and following the logging road uphill along partially de-activated roads to the Claim.

Mineral Claims 536855, 573881, 568846 and 570448 named Jupiter, Prosperity, Panorama and Copernicus respectively are all located approximately 5 kilometers south of the Town of Mesachie Lake. Each one of these claims has known Copper Iron Silver Gold deposits. They are situated on the north bank of the East Fork of the Robertson Creek and are accessed by travelling along de-activated logging roads on the north side of Robertson Creek.

Access Map for 582325



Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- MTO Grid (MTO)
- Blocked by MEM
- Other
- Mineral Tenure (current)
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Integrated Cadastral Fabric
- Survey Parcels
- BCGS Grid
- Contours (1:250K)
- Contour - Index
- Contour - Intermediate
- Area of Exclusion
- Area of Indefinite Contours
- Annotation (1:20K)
- Transportation - Points (TRIM)
- Helipad
- Transportation - Lines (TRIM)



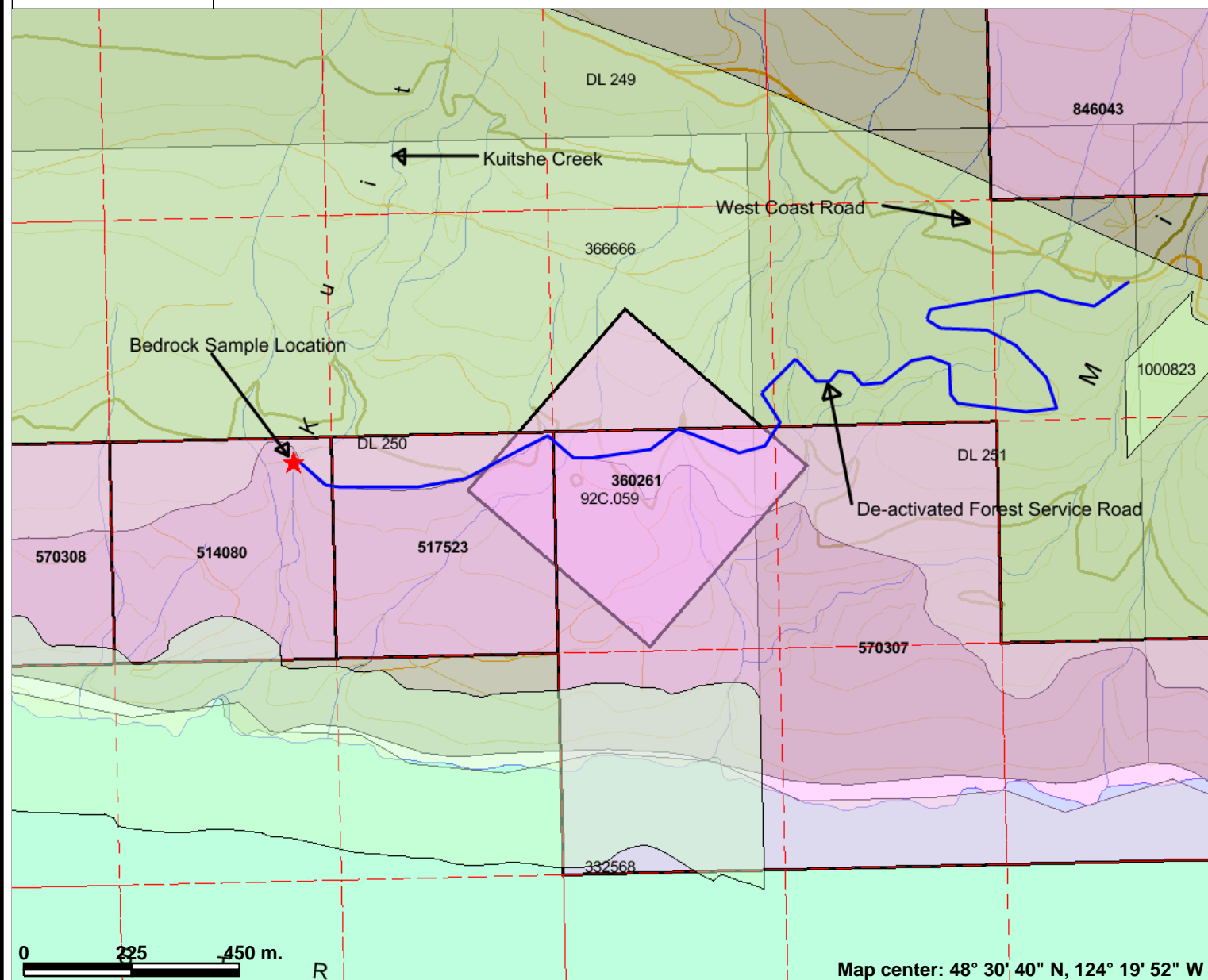
Map center: 48° 54' 15" N, 124° 13' 3" W



Scale: 1:26,132

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Access Map for 514080



Legend

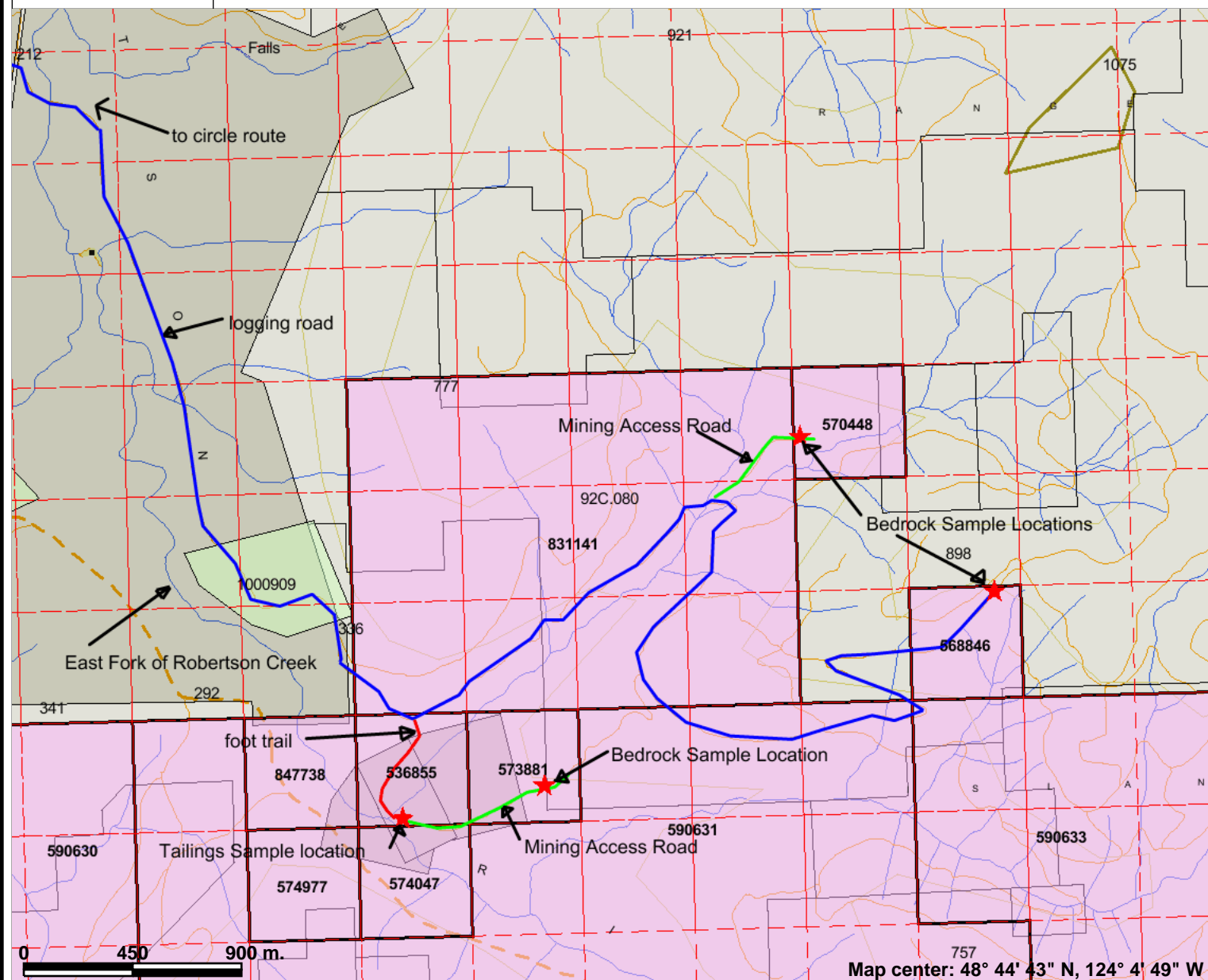
- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- MTO Grid (MTO)
- Blocked by MEM
- Other
- Mineral Tenure (current)
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Integrated Cadastral Fabric
- Survey Parcels
- BCGS Grid
- Contours (TRIM)
- Contour - Index
- Contour - Index.Indefinite
- Contour - Index.Depression
- Contour - Index.Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate.Indefinite
- Contour - Intermediate.Depression
- Contour - Intermediate.Depression Indefinite
- Area of Exclusion

Map center: 48° 30' 40" N, 124° 19' 52" W

Scale: 1:12,520

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Access Map for 536855, 573881, 570448, 568846



Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- MTO Grid (MTO)
- Blocked by MEM
- Other
- Mineral Tenure (current)
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Integrated Cadastral Fabric
- Survey Parcels
- BCGS Grid
- Contours (1:250K)
- Contour - Index
- Contour - Intermediate
- Area of Exclusion
- Area of Indefinite Contours
- Annotation (1:20K)
- Transportation - Points (TRIM)
- Helipad
- Transportation - Lines (TRIM)

Scale: 1:24,806

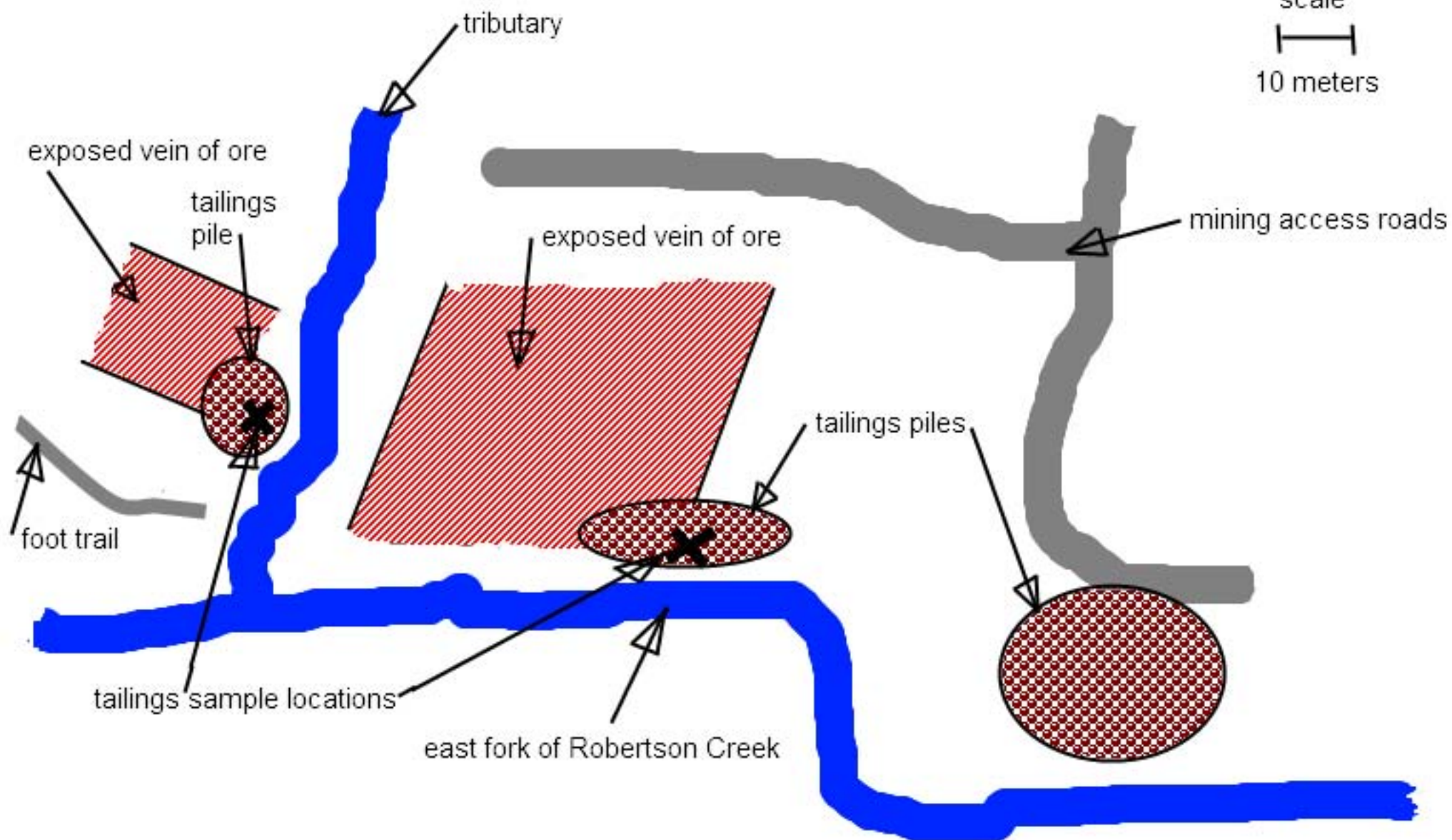
This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Sample locations for claim 536855

Samples collected Jan. 20 2009, UTM 419625E 5398413N,
Chalcopyrite sample assayed 24.37% Copper, 27.9% Iron
Magnetite sample assayed 1.62% Copper, 38.25% Iron



scale
10 meters



Sample Location Sketch for claim 582325

Bedrock Outcropping of Argillite with mettalic crystals at roadside

Sample location Sept. 01 2006 UTM 412434E 5418960N
assayed 52 ppb Gold, 43 grams per ton Molybdenum,
2.9 grams per ton Silver, 39 grams per ton Nickel

Claim Boundary

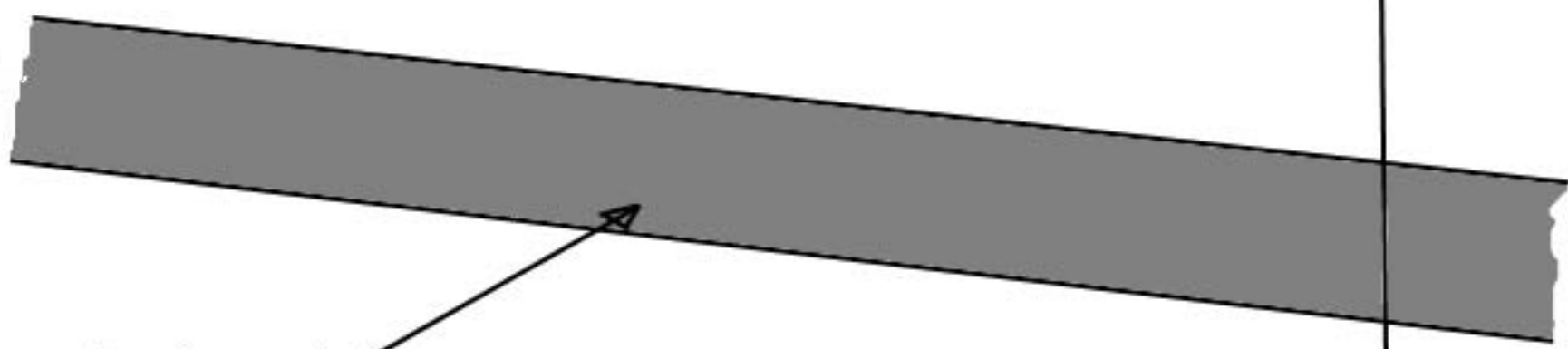
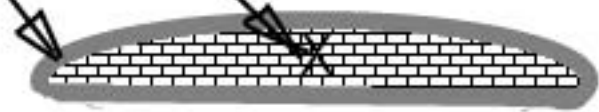
582325

scale

5 meters

590659

Logging road



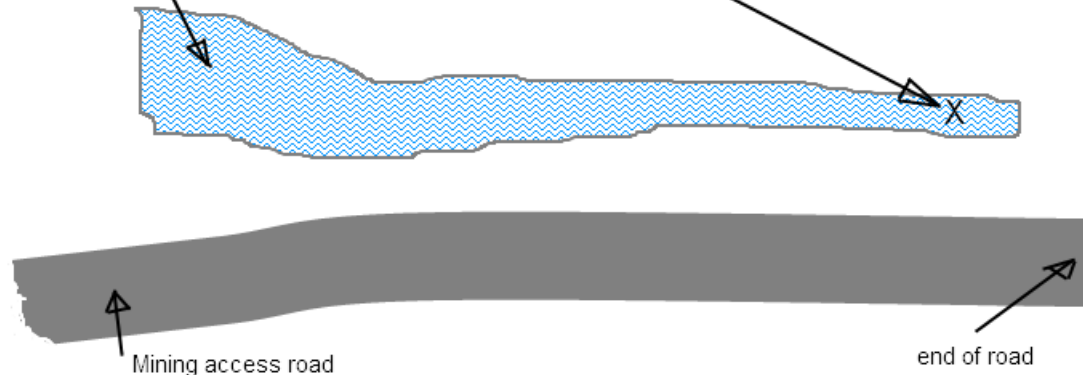
Sample location sketch for claim 570448

Exposed trench of ferrous basalt type bedrock containing veins and blebs of chalcopyrite

Sample location Nov 21 2008 UTM 421349E 5399915N
138 ppb Gold, >1% Copper, 2423 grams per ton Zinc,
64 grams per ton Silver, 398 grams per ton Cobalt



scale
5 meters



Sample locations Sketch for claim 573881



scale

4 meters

Limestone roof pendant

Bedrock outcroppings

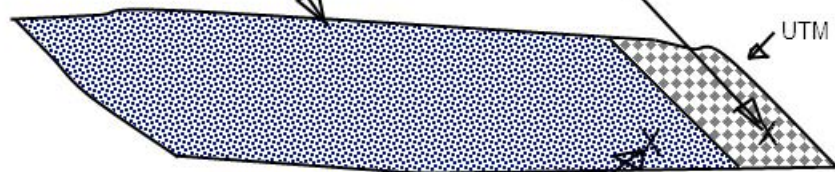
Sample #1 Pyrite Feb 09 2009, 31.43% Iron, 22 ppb Gold, 207 grams per ton Copper, 1.2 grams per ton Silver, 86 grams per ton Bismuth

UTM 420251E 5398516N

Large puddle

Sample #2 Magnetite, Feb 09 2009, 36.45% Iron, 2407 grams per ton Copper, 12 ppb Gold, 6 ppb Platinum, 29 grams per ton Tungsten, 865 grams per ton Manganese, 0.5 grams per ton Silver

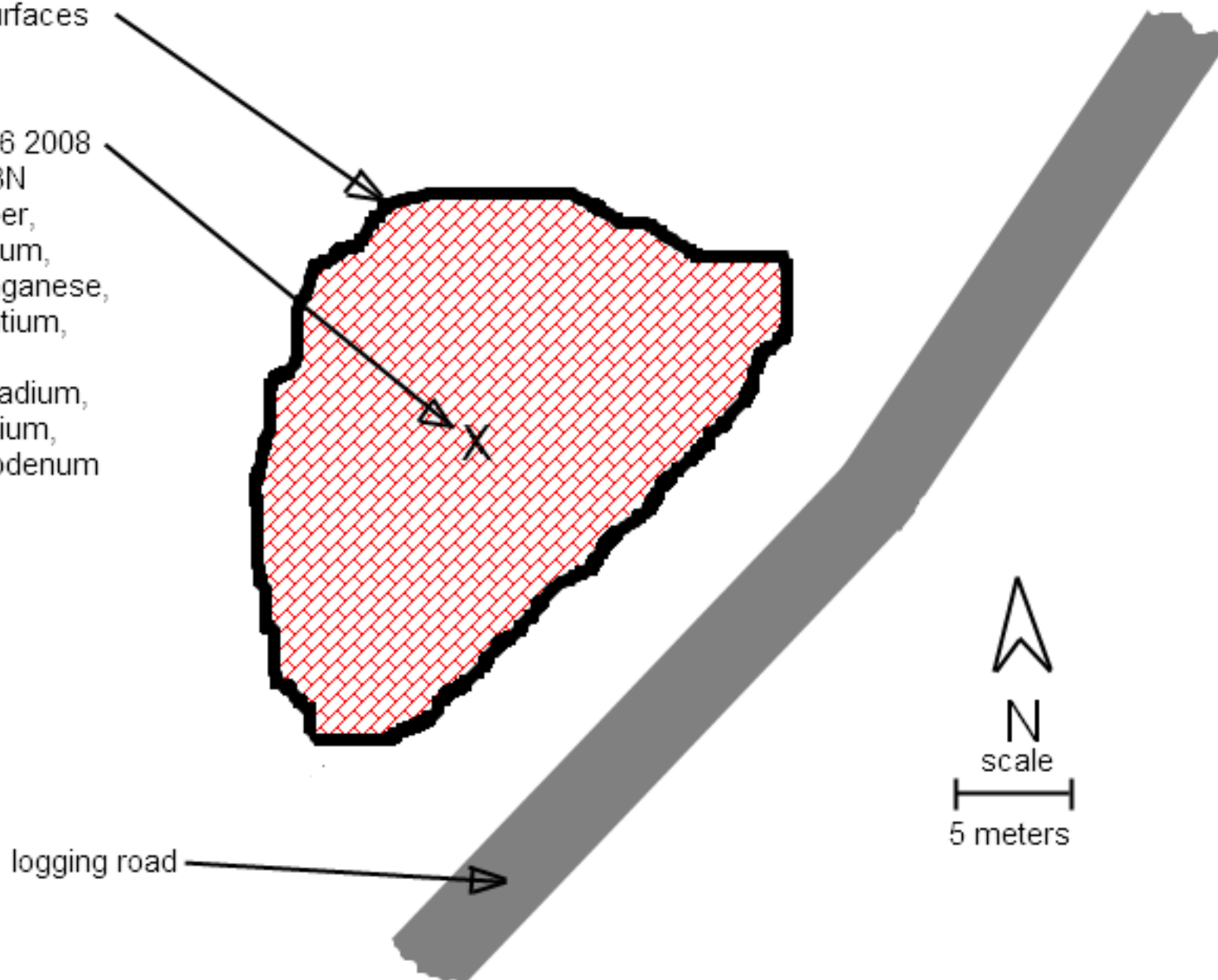
Mining access road



Sample location sketch for claim 568846

Large outcropping of blue Basalt bedrock cut by road building appearing, rusty red at exposed surfaces

Sample location Nov. 26 2008
UTM 422145E 5399243N
60 grams per ton Copper,
167 grams per ton Barium,
356 grams per ton Manganese,
82 grams per ton Strontium,
4.75% Iron,
100 grams per ton Vanadium,
9 grams per ton Scandium,
12 grams per ton Molybdenum
21 grams per ton Zinc,
7 grams per ton Lead



Sketch of Auriferous Sample Locations from claim 514080

Slate with veins of ferroan dolomite
with cubes of pyrite
assayed 6 grams per ton gold
Sample location Aug 22 2005

Basalt

Ferroan dolomite with
cubes of pyrite
Sample location
June 01 2008
assayed <2 parts per billion
gold

Basalt

Sandstone

Kuitshe Creek

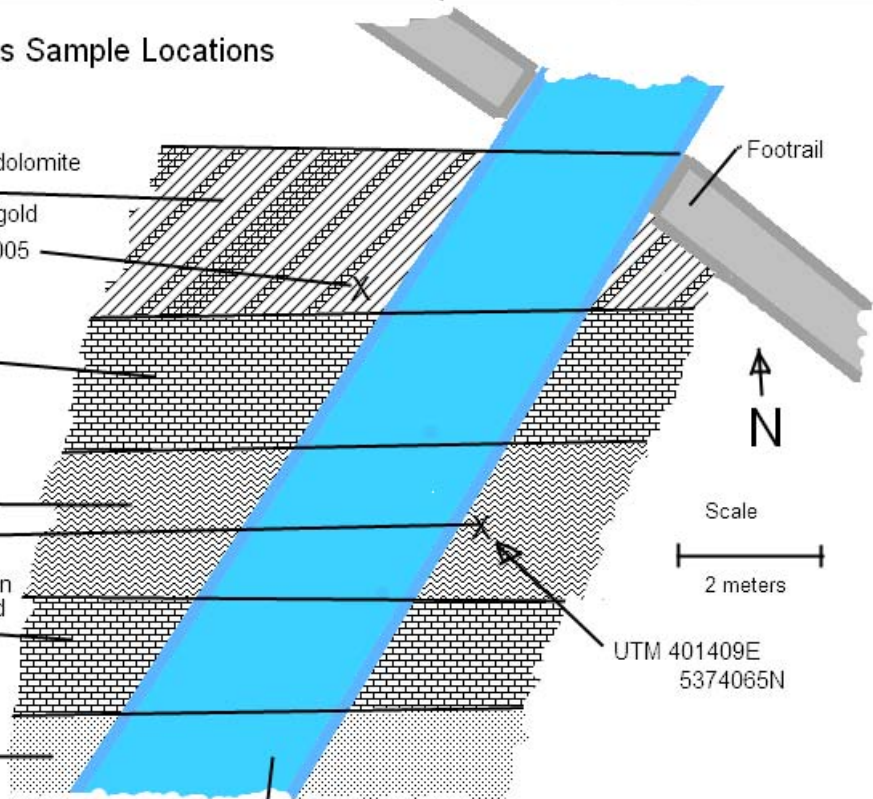
Footrail



Scale

2 meters

UTM 401409E
5374065N



Venatici claim number 514080 - sample collected on June 01 2008



Prosperity claim number 573881 - sample collected Feb. 09 2009

Pyrite sample Prosperity 1





Prosperity 2 claim number 573881 magnetite sample collected Feb. 09 2009

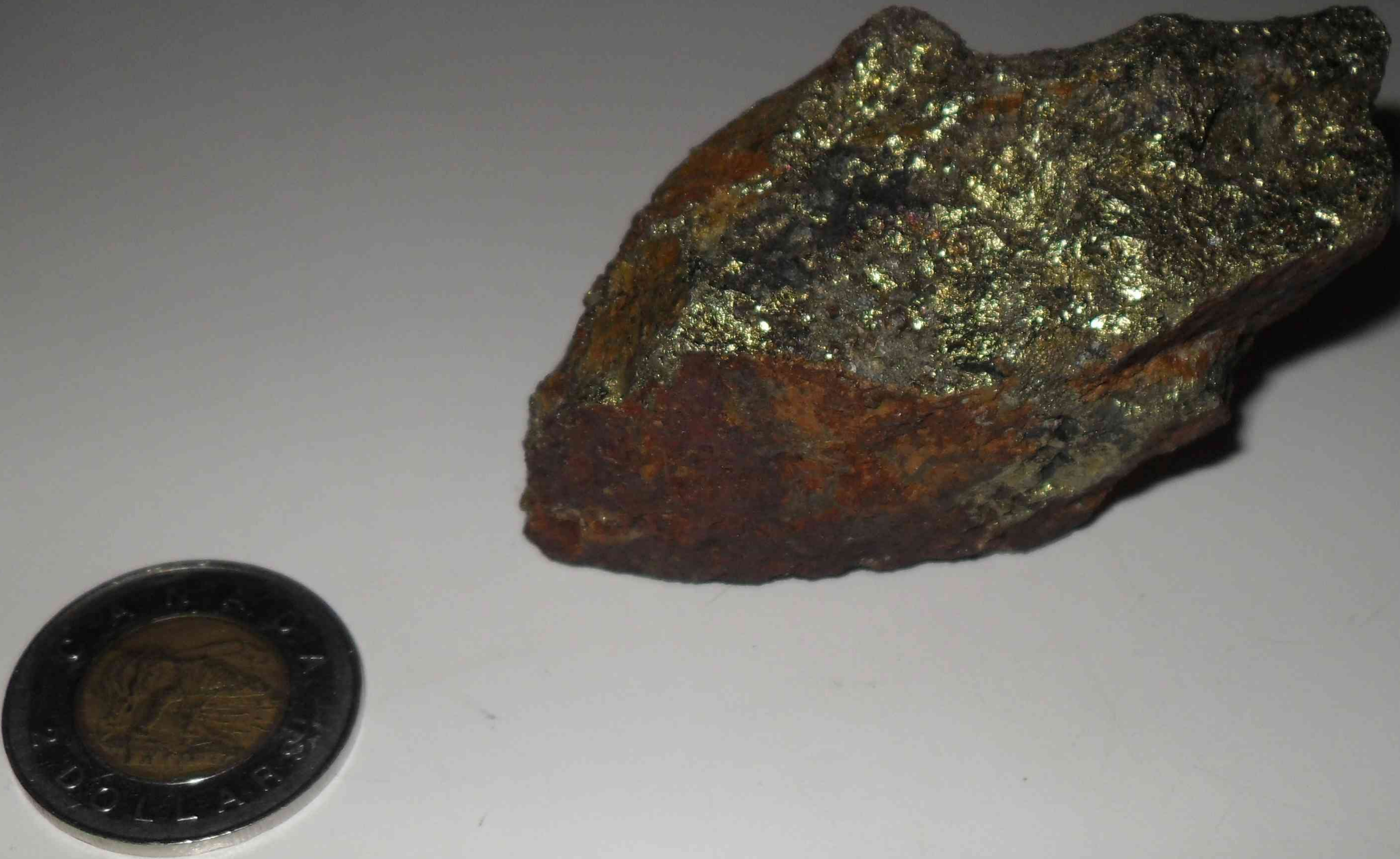


Panorama claim number 568846 - sample collected Nov. 26 2008

Magnalium claim number 582325 sample collected - Sept. 01 2006



Jupiter claim number 536855 sample collected July 05 2007
Chalcopyrite



Jupiter claim number 536855
Sample collected Jan 20 2009,
Magnetite tailings



Jupiter 6 flotation concentrate claim number 536855 produced Jan. 20 2009



Copernicus claim number 570448 - sample collected on Nov. 21 2008



Technical Work Description

Geochemical Analysis

Six bedrock samples gathered from 5 mineral claims with a hammer and chisel, were further broken up over an anvil then photographed and packaged into sample containers and sent by Greyhound to Acme Analytical Laboratories in Vancouver for assay analysis. First the samples underwent the R200-250 crushing, pulverizing to 200 mesh. Then each bedrock sample was subjected to the GEO4 analysis package. Consisting of FA fusion for Au, Pt, Pd, and 1:1:1 AR digestion ICP-ES analysis. The test locates thirty-four different elements and provides a basic element composition of each mineral tested.

Two other tailings samples of Chalcopyrite and Magnetite from mineral claim Jupiter #536855 were sent to Trevor Yeomans in Campbell River for identification and independent ICP analysis. Acme could not perform these tests because they claim their equipment cannot accurately detect copper concentrations above 10%.

Flotation Experimentation

The goal of this work was to see if a suitable copper concentrate consisting of 20% copper or greater could be produced by the author of this report.

Tailings samples of Chalcopyrite, Magnetite and Garnetite were also gathered from the Jupiter claim #536855 and crushed by hand with a hammer and anvil, then placed in a ball mill with steel ball bearings and water and pulverized until they produced a fine slurry. The slurry was then placed in a flotation cell with small amount of flotation reagent. The cell was circulated with a spinning impeller and aerated with air pumped in from a compressor. The resulting froth was collected and portions of it were subjected to magnetic separation and other portions re-floated.

First approximately 20 kilograms of tailings was crushed in the ball mill. Then 15 liters of slurry was removed from the ball mill and screened to remove any larger particles and placed in the flotation cell. Then 10 milliliters of flotation reagent of soap containing 8.7% pine oil, and lesser amounts of alkyl alcohol ethoxylates, sodium petroleum sulfonate, and isopropyl alcohol was added. The impeller was turned on and air was pumped into the tank to produce minute bubbles. Immediately a bubbly froth was collected by letting it overflow into a larger square container surrounding the flotation cell. The froth was then allowed to dry to produce the concentrate.

Portions of the concentrate were placed in a magnetic separator, then dried. This involved placing a large magnet underneath a container of froth and pouring out the froth so only the magnetite would remain inside. Some samples were then re-floated by placing them back in the flotation cell for a second time.

Analysis of Concentrate

In all six concentrate samples were produced by flotation and 50 grams of each were sent to Trevor Yeomans in Campbell River for assay analysis for four base metals. Copper, Lead, Zinc and Iron.

Then the flotation sample that yielded the highest percentage of Copper as identified by Trevor Yeoman's base metal testing was sent to Acme Labs for further analysis to see what other metals were concentrated by the flotation process. This sample is identified as Jupiter 6, because it was the sixth sample produced. And it was subjected to the same GEO4 test to identify the amounts of thirty four elements contained in the concentrate.



Acme Analytical Laboratories (Vancouver) Ltd.
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 P.O. Box 415
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Project: None Given
 Report Date: April 07, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11001074.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm
MDL		0.01	0.001	1	1	0.01	1	0.01	20	0.01	0.01	0.01	2	0.05	5	5
Reference Materials																
STD DS8	Standard	0.70	0.081	13	114	0.62	296	0.11	<20	0.89	0.09	0.42	2	0.15	<5	<5
STD OREAS45PA	Standard	0.26	0.029	17	848	0.11	191	0.12	<20	3.45	<0.01	0.07	<2	<0.05	54	<5
STD OREAS45CA	Standard	0.42	0.035	16	737	0.14	166	0.13	<20	3.74	<0.01	0.07	<2	<0.05	46	<5
STD PD1	Standard															
STD PD1 Expected																
STD DS8 Expected		0.7	0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45PA Expected		0.2411	0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03		
STD OREAS45CA Expected		0.4265	0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank															
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.01	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5

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AcmeLabs

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Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11001074.1

Method	3B	3B	3B	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
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	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1
Reference Materials																				
STD DS8 Standard				13	122	128	319	2.0	38	8	634	2.47	23	<2	6	63	2.2	<3	<3	41
STD OREAS45PA Standard				2	643	14	120	0.3	302	113	1100	16.92	4	<2	7	14	<0.5	<3	<3	214
STD OREAS45CA Standard				2	403	16	64	0.4	244	92	935	15.97	5	<2	6	15	<0.5	<3	<3	207
STD PD1 Standard	516	435	554																	
STD PD1 Expected	542	456	563																	
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1
STD OREAS45PA Expected				0.9	600	19	119	0.3	281	104	1130	16.559	4.2	0.043	6	14	0.09	0.13	0.18	221
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215
BLK Blank	<2	<3	<2																	
BLK Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1



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Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN11001074.1

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm
MDL	0.01	0.001	1	1	0.01	1	0.01	20	0.01	0.01	0.01	2	0.05	5	5
JUPITER 6 Concentrate	3.73	0.002	2	23	0.02	<1	<0.01	<20	0.13	<0.01	<0.01	65	5.57	<5	<5



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Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

VAN11001074.1

Method	3B	3B	3B	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
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	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	
JUPITER 6	Concentrate	87	<3	16	54	>10000	8	398	39.4	40	38	992	28.53	253	<2	<2	<1	5.6	<3	57	9



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Page: 1 of 1 Part 1

QUALITY CONTROL REPORT **VAN11001071.1**

Method	WGHT	3B	3B	3B	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
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	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	
REP COPERNICUS	QC				34	>10000	<3	2458	65.9	46	406	680	12.59	47	<2	<2	11	23.9	<3	<3	
Core Reject Duplicates																					
COPERNICUS	Rock	0.08	138	<3	7	33	>10000	<3	2423	64.0	43	398	672	12.02	44	<2	<2	11	22.8	<3	<3
DUP COPERNICUS	QC		137	6	11	34	>10000	<3	2440	64.6	44	398	670	12.54	43	<2	<2	11	23.9	<3	<3
Reference Materials																					
STD DS8	Standard				13	122	128	319	2.0	38	8	634	2.47	23	<2	6	63	2.2	<3	<3	
STD OREAS45PA	Standard				2	643	14	120	0.3	302	113	1100	16.92	4	<2	7	14	<0.5	<3	<3	
STD OREAS45CA	Standard				2	403	16	64	0.4	244	92	935	15.97	5	<2	6	15	<0.5	<3	<3	
STD PD1	Standard	516	435	554																	
STD PD1	Standard	519	485	555																	
STD PD1	Standard	549	465	573																	
STD DS8 Expected					13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	
STD OREAS45PA Expected					0.9	600	19	119	0.3	281	104	1130	16.559	4.2	0.043	6	14	0.09	0.13	0.18	
STD OREAS45CA Expected					1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	
STD PD1 Expected		542	456	563																	
BLK	Blank	<2	<3	<2																	
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	
BLK	Blank	<2	<3	<2																	
BLK	Blank	<2	<3	<2																	
Prep Wash																					
G1	Prep Blank	<0.01	<2	<3	<2	<1	2	4	48	<0.3	4	4	581	2.02	<2	<2	5	54	<0.5	<3	<3

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Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga	
Unit	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	
MDL	1	0.01	0.001	1	1	0.01	1	0.01	20	0.01	0.01	0.01	2	0.05	5	5	
REP COPERNICUS	QC	16	1.09	0.047	3	3	0.12	29	0.02	<20	0.22	<0.01	<0.01	<2	10.71	<5	<5
Core Reject Duplicates																	
COPERNICUS	Rock	15	1.08	0.046	3	4	0.12	29	0.02	<20	0.21	<0.01	<0.01	<2	10.55	<5	<5
DUP COPERNICUS	QC	16	1.07	0.047	3	4	0.12	30	0.02	<20	0.21	<0.01	<0.01	<2	10.73	<5	<5
Reference Materials																	
STD DS8	Standard	41	0.70	0.081	13	114	0.62	296	0.11	<20	0.89	0.09	0.42	2	0.15	<5	<5
STD OREAS45PA	Standard	214	0.26	0.029	17	848	0.11	191	0.12	<20	3.45	<0.01	0.07	<2	<0.05	54	<5
STD OREAS45CA	Standard	207	0.42	0.035	16	737	0.14	166	0.13	<20	3.74	<0.01	0.07	<2	<0.05	46	<5
STD PD1	Standard																
STD PD1	Standard																
STD PD1	Standard																
STD DS8 Expected		41.1	0.7	0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45PA Expected		221	0.2411	0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03		
STD OREAS45CA Expected		215	0.4265	0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
STD PD1 Expected																	
BLK	Blank																
BLK	Blank	<1	<0.01	<0.001	<1	<1	<0.01	<1	<0.01	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank																
BLK	Blank																
Prep Wash																	
G1	Prep Blank	38	0.52	0.082	9	6	0.58	202	0.12	<20	0.99	0.09	0.49	<2	<0.05	<5	<5

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.



AcmeLabs

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Project: None Given
Report Date: April 07, 2011

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN11001071.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte		V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm
MDL		1	0.01	0.001	1	1	0.01	1	0.01	20	0.01	0.01	0.01	2	0.05	5	5
COPERNICUS	Rock	15	1.08	0.046	3	4	0.12	29	0.02	<20	0.21	<0.01	<0.01	<2	10.55	<5	<5
MAGNALIUM	Rock	16	<0.01	<0.001	<1	2	0.05	13	<0.01	<20	0.25	0.02	0.11	<2	15.42	<5	<5
PANORAMA	Rock	100	0.79	0.070	5	27	1.00	167	0.15	<20	2.92	0.20	0.14	<2	1.12	9	<5
PROSPERITY 1	Rock	21	0.06	<0.001	<1	<1	0.01	1	<0.01	<20	0.03	<0.01	<0.01	5	25.01	<5	<5
PROSPERITY 2	Rock	28	0.05	0.001	<1	<1	0.18	<1	<0.01	21	0.17	<0.01	<0.01	29	14.35	<5	<5
VENATICI	Rock	31	0.88	0.086	7	13	0.68	14	<0.01	<20	1.03	0.04	0.20	<2	0.10	<5	<5



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Project: None Given
Report Date: April 07, 2011

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS VAN11001071.1

Method	WGHT	3B	3B	3B	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
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	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	
COPERNICUS	Rock	0.08	138	<3	7	33	>10000	<3	2423	64.0	43	398	672	12.02	44	<2	<2	11	22.8	<3	<3
MAGNALIUM	Rock	0.04	52	<3	4	43	131	6	17	2.9	39	7	50	15.88	153	<2	<2	3	<0.5	17	<3
PANORAMA	Rock	0.08	<2	<3	<2	12	60	7	21	<0.3	12	17	356	4.75	<2	<2	<2	82	<0.5	<3	<3
PROSPERITY 1	Rock	0.11	22	4	<2	4	207	<3	3	1.2	16	86	55	31.43	23	<2	<2	1	<0.5	<3	86
PROSPERITY 2	Rock	0.09	12	6	<2	3	2407	<3	11	0.5	20	9	865	36.45	41	<2	<2	<1	<0.5	<3	34
VENATICI	Rock	0.08	<2	<3	<2	<1	18	<3	28	<0.3	12	10	261	1.76	15	<2	3	28	<0.5	<3	<3

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.

Equipment and Tools Used

All mineral samples were gathered with hand tools consisting of hammers, chisels and metal bars. Samples of pyrite and chalcopyrite found near magnetite deposits were tested with a hand compass to ensure the purity of the sample so very little magnetite was contained in those samples. Magellan eXplorer 100 GPS unit was used to record the UTM co-ordinate locations where the samples were collected.

The ball mill used to produce a slurry the consists of ;

Ball Mill - Rotating Steel Drum Cylinder 36 cm in diameter and 1 meter long
Electric Motor A.C. 110 Volts, 4.5 Amps, 0.25 horsepower, 1753 rpm
Rubber Belt 183 cm long and 2 cm wide
25 steel balls 2 cm. in diameter
Hand powered Hoist Winch Model DL 1000, pulleys and wire cable and hook
1 cm sized metal wire mesh screen filter
1 mm sized plastic mesh screen filter

The flotation cell used to produce the concentrate was constructed from;

Flotation Cell - Plastic Cell Tank capacity 20 liter
Electric Motor A.C. 120 Volt, 2.6 Amps, 1200 rpm
Agitator Impeller 36 cm long metal shaft with 7 cm wide impeller
Electric Air Compressor A.C. 120 Volts, 2.5 Amps
2 Air Hoses, 1.5 meter, 2 cm dia. rubber and 1 meter, 4 cm dia.
Plastic Overflow tank and sheet plastic froth guide apron

The magnetic separator used to remove magnetite from the flotation froth was constructed from;

Magnetic Separator – plastic bucket 5 liter capacity
large magnet fastened to bottom of bucket

Statement of Work and Cost

MTO Event # 4847085

Collecting Samples on Prosperity Claim 573881 Feb. 09 2009 7 hours @ \$40.00 per hour = \$280.00
Mar 01 2009 2 hours @ \$40.00 per hour = \$80.00

Analysis by Acme Analytical Labs 6 Geo4 and 6 R200-250 Mar. 2011.....\$268.22
Analysis by Acme Analytical Labs 1 Geo4 Mar. 2011.....\$27.70

Shipping by Greyhound.....\$12.51

Milling and Flotation Test.....January 2009 50 hours @ \$20.00 per hour = \$1000.00

Flotation Analysis 8 Base metal assays Cu, Pb, Zn, Fe, Mar. 2009, 8 tests @ \$125.00 each = \$1000.00

Sample preparations and packaging.....16 hours @ \$20.00 per hour = \$320.00

Technical Work Totals.....\$2988.43

PAC Withdrawal.....\$541.73

Total Value Applied.....\$3530.16

I certify this statement is true and correct _____ June 15 2011

Dean M. Arbic

Conclusions and Interpretations

Geochemical Analysis

Claim name, Copernicus # 570448, 80 grams of bedrock was sent for analysis from a vein of Basalt type rock with veins of Quartz and blebs and veins of Chalcopyrite. The results are very positive, copper was found at levels exceeding 1% and Silver had a very strong showing at 64 grams per ton compared to other samples from this vicinity, the Silver amount is about triple the average value. Zinc was also found at 0.2423%. The Iron level is lower than expected at 12.02% and the Arsenic level is low at 44 grams per ton, making this deposit a very attractive candidate for making a copper/silver/zinc product through flotation.

Also Gold was discovered in small amounts at 0.138 grams per ton which is on par with similar ore from that area.

A number of other metals were found that are of interest as they might indicate other deposits in close proximity to this discovery. A trace of Palladium at 7 parts per billion, 33 grams per ton Molybdenum, 43 grams per ton Nickel, 398 grams per ton Cobalt, 672 grams per ton Manganese, 11 grams per ton Strontium, 22.8 grams per ton Cadmium, 15 grams per ton Vanadium, 29 grams per ton Barium, and 10.55% Sulphur.

More work must be done on the Copernicus claim, specifically tracing this vein to determine its size, and value with further sampling.

Claim name, Magnalium # 582325, 40 grams of Argillite with metallic crystals was sent for analysis. Results show 15.88% Iron which likely explains the metallic crystals. But indicators of other valuable metals were also detected making this a potentially exciting development. 0.052 grams per ton Gold was found, a trace of Palladium at 0.004 grams per ton, 43 grams per ton Molybdenum, 2.9 grams per ton Silver, 17 grams per ton Antimony, 131 grams per ton Copper, 39 grams per ton Nickel, 153 grams per ton Arsenic and 15 grams per ton Vanadium.

These results also warrant more exploration of this deposit and claim.

Claim name, Panorama # 568846, 80 grams of Basalt with fine metallic speckles from a large outcropping was sent for analysis. These results are disappointing and surprising. Disappointing because no precious metals were found, and surprising because some rare metals were found. 167 grams per ton Barium, 0.15% Titanium, 100 grams per ton Vanadium, 82 grams per ton Strontium and 9 grams per ton Scandium. And some other typical background levels of Iron at 4.75%, 356 grams per ton Manganese, 60 grams per ton Copper, 12 grams per ton Molybdenum, 7 grams per ton Lead, 21 grams per ton Zinc, 12 grams per ton Nickel, 27 grams per ton Chromium, 1% Magnesium and 2.92% Aluminium.

I will continue to explore this claim and further study the nature of these rare metal occurrences to develop an exploration strategy for this claim.

Claim name, Prosperity # 573881, Two bedrock samples from were taken from different regions of the same vein of ore. On the assay certificate of analysis they appear as Prosperity 1 and 2. Prosperity 1 is a sample of solid pyrite and 100 grams were sent for analysis and Prosperity 2 is a sample of dark blue magnetite with frost-like spots of pyrite and 80 grams were sent for analysis. The results were very interesting, both showed high levels of Iron to be expected and traces of Gold,

Platinum and Silver, but what was not expected was that the pyrite sample would contain Bismuth and the magnetite sample would contain more copper than the pyrite contained.

The results were as follows, Prosperity 1; 0.022 grams per ton Gold, 0.004 grams per ton Platinum, 1.2 grams per ton Silver, 86 grams per ton Bismuth, 4 grams per ton Molybdenum, 207 grams per ton Copper, 3 grams per ton Zinc, 16 grams per ton Nickel, 86 grams per ton Cobalt, 31.43% Iron, 21 grams per ton Vanadium, 25.01% Sulphur, 5 grams per ton Tungsten.

Prosperity 2; 0.012 grams per ton Gold, 6 grams per ton Platinum, 2407 grams per ton Copper, 36.45% Iron, 865 grams per ton Manganese, 0.5 grams per ton Silver, 20 grams per ton Nickel, 11 grams per ton Zinc, 34 grams per ton Bismuth, 28 grams per Vanadium and 3 grams per ton Molybdenum.

Depending on the size of this orebody, there may be a value to the magnetite, in that case small amounts of precious metals in the iron may increase its value if large amounts are extracted.

Claim name Venatici # 514080, From the sample of Ferroan Dolomite weighing 85 grams from this claim, pieces were selected that had a poor showing of Pyrite crystals. And the results indicate very low value to this particular portion of this vein of bedrock. No indication of precious metals, but some low levels of base metals. 18 grams per ton Copper, 28 grams per ton Zinc, 12 grams per ton Nickel, 10 grams per ton Cobalt, 261 grams per ton Manganese, 1.76% Iron, 15 grams per ton Arsenic, 3 grams per ton Thorium, 28 grams per ton Strontium, 31 grams per ton Vanadium, 7 grams per ton Lanthanum, 13 grams per ton Chromium, 0.68% Magnesium, 14 grams per ton Barium, 1.03% Aluminum, 0.2% Potassium.

Analysis of Flotation Concentrate

Six samples of flotation concentrate were sent for analysis and the samples can be described as such;

Sample #1 is the slurry from the ball mill before flotation

Sample #2 is the first flotation sample

Sample #3 is the first flotation sample that was then magnetically separated

Sample #4 is the second flotation attempt with less agitation and magnetic separation

Sample #5 is the remaining sludge from the bottom of the flotation tank, the unfloted slurry

Sample #6 is the refloat sample, meaning, after flotation the tank was cleaned and concentrate was placed back in the flotation tank with more reagent to be floated a second time.

The results are as follows;

Sample #	Copper	Lead	Zinc	Iron
1	6.93%	0.01%	0.02%	32.42%
2	11.82%	0.01%	0.03%	26.87%
3	16.95%	0.01%	0.04%	26.30%
4	16.50%	0.01%	0.05%	27.01%
5	7.99%	0.01%	0.05%	27.45%
6	21.80%	0.34%	3.94%	29.32%
Chalcopyrite	24.37%	0.02%	0.14%	27.9%
Magnetite	1.62%	0.02%	0.06%	38.25%

The results show that the method was successful.

Sample #1 indicates that the crushed tailings from the ball mill are approximately 7% Copper, with little Lead or Zinc and about one third Iron.

Sample #2 shows that the first flotation did increase the amount of Copper and that not all the Iron floated, possibly only the Iron particles joined to Copper or other metals were floated.

Sample #3 reveals that magnetic separation is an important step because it increased the Copper amount by 5.13% and slightly increased the Zinc reading and reduced the Iron amount by 0.57%.

Sample #4 confirms the initial level of agitation was correct and did not need reducing.

Sample #5 shows that the process is successful in doubling copper levels on the first float and tripling them on the refloat. Because if the sludge is 7.99% Copper, and the flotation concentrate 16.5% and 21.80%, the gangue is remaining in the float tank as expected. The raw tailings from the ball mill can be described as 39.38% metal (Cu, Pb, Zn, Fe) and 60.62% rock mostly garnetite and other silicates called the gangue.

Sample #6 confirms that two step flotation, a very common process, is very useful in this case. This sample is 21.8% Copper, indicating the experiment is a success. Ore that began as 39.38% metal was increased to 55.4% metal. And most importantly the Copper level increased from 6.93% to 21.8%. And the refloat boosted the Lead and Zinc levels; Lead rose from 0.02% to 0.34% and Zinc rose from 0.02% to 3.94%, this means the reagent effects more than just Copper.

A sample of the Chalcopyrite and Magnetite were also assayed to confirm their identification and there are confirmed. 24.37% Copper is typical of a pure Chalcopyrite sample. And 38.25% Iron is typical of Magnetite and the sample is magnetic.

Then 30 grams of Sample #6 were sent to Acme Labs in Vancouver to determine the other levels of metals contained in the concentrate and to confirm these test results. Copper exceeded the test level of 1%, Iron was the same at 28.53%, Lead was 8 grams per ton, Zinc was 398 grams per ton, Gold is at 0.087 grams per ton, Silver at 39.4 grams per ton is about double the expected amount suggesting some was concentrated, Palladium was also concentrated at 0.016 grams per ton, Molybdenum is 54 grams per ton, 40 grams per ton Nickel, 38 grams per ton Cobalt, 992 grams per ton Manganese, 253 grams per ton Arsenic, 5.6 grams per ton Cadmium, 57 grams per ton Bismuth, 9 grams per ton Vanadium and 65 grams per ton Tungsten.

Hardware and Software

This report was written with OpenOffice.org 3.2.0

Maps were prepared with the MTO Adobe Systems mapping service.

Sketches were drawn with Paint.NET v3.5.7

Digital photographs of mineral samples were taken by Chanterelle Arbic with a Samsung digital Camera and by Divinity Arbic with a Fujifilm XP Digital camera and captioned with Paint.NET v3.5.7

The entire report was prepared with an IBM Computer XP ThinkCenter.

Documents were scanned with a HP officejet 5510 printer/scanner

UTM Co-ordinates gathered with a Magellan eXplorist 100 GPS

Qualifications

Dean Arbic has a Grade 12 education.

Clarence Leong is a Certified Assayer for Acme Labs.

Trevor Yeomans is a Certified Metallurgist.