



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Rock Geochemistry Report

TOTAL COST:\$12,610

AUTHOR(S):Sean Kennedy
SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S):5399606

YEAR OF WORK:2012

PROPERTY NAME:Hottie

CLAIM NAME(S) (on which work was done):841205, 841206, 841207, 841223, 942294, 942295

COMMODITIES SOUGHT:Gold

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN:093B 066

MINING DIVISION: Cariboo
NTS / BCGS:93 B 091

LATITUDE: _____ ° _____ ' _____ "
LONGITUDE: _____ ° _____ ' _____ " (at centre of work)
UTM Zone: 10 EASTING:439085 NORTHING:5868295

OWNER(S):Tom Kennedy

MAILING ADDRESS:
South Slocan, BC

OPERATOR(S)Kootenay Silver Inc

MAILING ADDRESS:
Suite 1820 - 1055 W. Hastings St.
Vancouver, British Columbia
Canada V6E 2E9

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**) Structurally controlled hydrothermal alteration zones are related to a Cretaceous (?) diorite, and Tertiary, Ootsa Lake felsic dykes. Zones are enriched in Au, Cu, Zn, Ag, Bi, Sb, As, Ba, and Hg.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock	100	All	\$3000
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying	wages		\$6350
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other	Report writing, travel,		\$3260
		TOTAL COST	\$

Rock Geochemistry Report

Hottie Mineral Claims

NTS 93B 091

Nazko Area

Central BC

UTM

439085 5868295

BC Geological Survey
Assessment Report
33447

Owner: Tom Kennedy,

South Slocan, BC

Operator:

Kootenay Silver Inc

Suite 1820 - 1055 W. Hastings St.

Vancouver, British Columbia

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Report Written By Sean Kennedy

Prospector

November 2012

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Introduction

During the summer of 2012 a program of rock sampling was conducted on the Hottie Mineral claims in central BC. The property is underlain by a large structurally controlled hydrothermal alteration zone that is enriched in base and precious metals. The purpose of the program was to enhance results obtained by previous workers in the early 1990s.

Property

The property is comprised of six mineral titles claims wholly owned by Tom Kennedy of South Slocan BC. The property is currently operated by Kootenay Silver Inc.

Tenure Number	Claim Name	Area (ha)
841205	HOTTIE1	467.278
841206	HOTTIE2	467.4116
841207	HOTTIE3	467.2914
841223	HOTTIE4	272.5201
942294	NAUGHTY 1	467.3095
942295	NAUGHTY 2	350.5821

Location and Access

The Hottie claims are located in the Interior Plateau of central British Columbia. The property is approximately 100 km's west of the city of Quesnel and 25 km's west of the village of Nazko. Access is given by paved highway from Quesnel to Nazko, from there a network of all-season gravel/forestry haul roads give access to much of the property.

Physiography

The property overlies an area of gently rolling topography with elevations ranging from 1,100 to over 1400 meters. Much of the property was clearcut logged in the 1980s and early 1990s. Forest cover is comprised mainly of lodgepole pine that is now beetle killed. Outcrop exposure is scarce on the property and is largely confined to gullys and steep slopes.

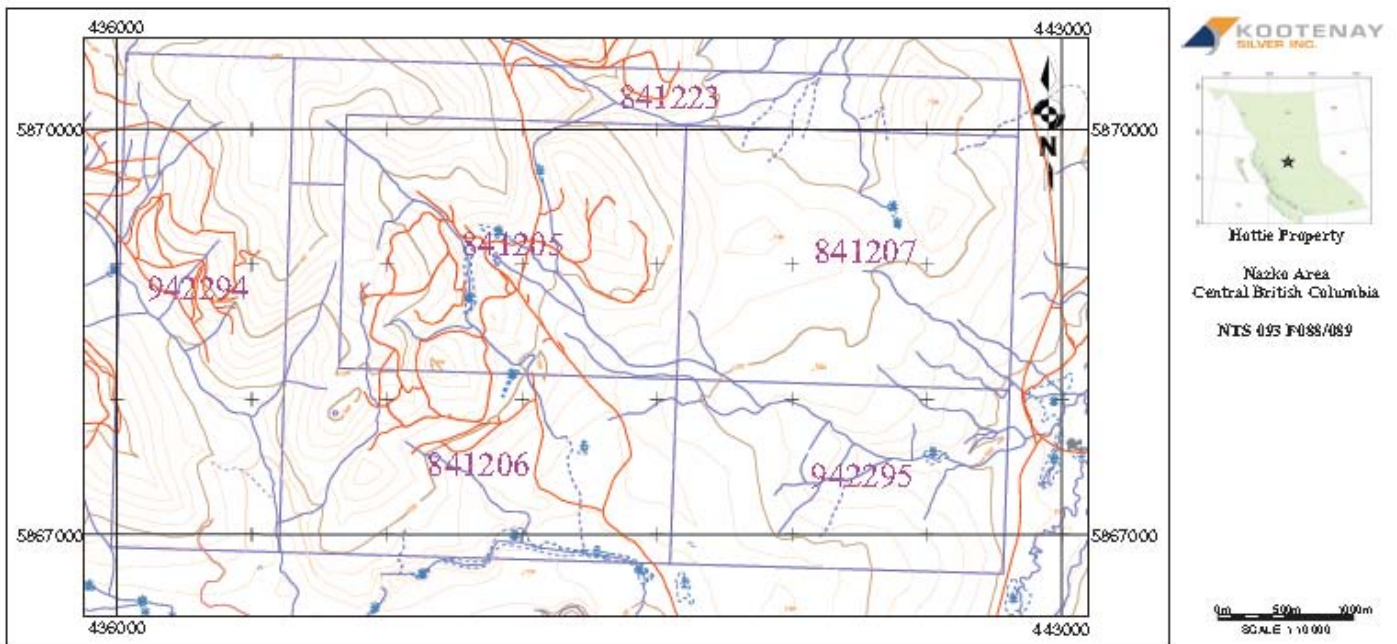


Figure 1: Property Map, regional location top right

History

The property covers the QFP minfile occurrence. The claims were initially staked in 1989 to cover a pyritic quartz-feldspar intrusion that was recognized to have epithermal characteristics. Geochemical surveys (soil) identified large zones of anomalous gold, and arsenic in soils. Geological mapping outlined two major alteration zones consisting of fracture/fault controlled breccias consisting of carbonate-limonite alteration with quartz veining. A roof pendant was also identified where chert pebble conglomerate is locally brecciated and veined with quartz-calcite-pyrite stringers. Rock geochemistry from the pendant returned anomalous gold, arsenic, barium, copper, antimony and zinc. One sample from this area of chalcedonic quartz and calcite gave values of 3.82 g/t Au (minfile # 093B 066). Rock sampling completed over the other alteration zones returned six samples with values over 100 ppb Au with the highest being 1.6 g/t Au. Trenching was carried out based on these results along a quartz-eye dyke that was shown to host mineralization. One sample containing chalcopyrite from this area returned over 3% copper with 377.5 g/t silver and 98,109 ppm arsenic (Assessment Report 20022). This work took place from 1990-1994. In 1994 an aerial geophysical survey was completed on the property (mag/em).

In 1995 two holes were drilled (378 meters) in the vicinity of the trenching. Pyritic/chlorite altered siltstone and pyritic biotite hornfels were encountered with widely spaced quartz-pyrite-chalcopyrite veinlets (5-10 meters apart). The most geochemically anomalous zone returned was 610 ppb Au over 2 meters (Assessment Report 24177).

For a complete list of work see: Assessment Report 20022, 20277, 20874, 21594, 22400, 23045, 23695, 24177, and Property File Rimfire (Heberlein, D. (1992-01-23): QFP Epithermal Au Property report.

Regional Geology

The Interior Plateau of central BC is bounded on the northeast and southwest by the Yalakom and Fraser Faults respectively. The plateau is underlain by the Intermontane Belt which consists of Paleozoic to Tertiary sedimentary and volcanic rocks of the Stikinia, Cache Creek, and Quesnellia Terranes. The plateau is dissected by the Anahim Volcanic belt; an east-west trending belt of Miocene-Quaternary mafic volcanoes.

The area appears to be part of a large caldera complex marked by numerous felsic flow-dome complexes and tilted/faulted structural blocks. Regional epithermal precious metal mineralization appears to be related to the caldera complex and spans ages from late Cretaceous to late Tertiary.

Property Geology

Geological mapping conducted during previous programs is paraphrased below:

'The property is underlain by Jurassic Hazelton Group sedimentary rocks including; siltstone, chert, argillite, lithic-pebbly greywacke, conglomerate, and chert pebble conglomerate. Hazelton volcanics consist of andesitic to basaltic flows and pyroclastic rocks. Fine grained pyroxene-diorite stock and marginal biotite-diorite dykes of middle to upper Cretaceous (?) age intrude and hornfels the host

Hazelton sediments. Small felsites intrusions of possible Eocene Ootsa Lake Group, pale green to white with local quartz eyes intrude the package and are locally associated with breccias and quartz stockworks. Two major zones of alteration (North and South Zones) are located on the property. These zones consist of carbonate-limonite staining and local quartz veining associated with faults and shear zones. Strongly silicified outcrops in the South Zone form resistant ribs of breccias which resemble jasperoid.'

Rock Geochemistry

During the program 100 rock samples were collected and analyzed for a 36 element ICP including Au in ppb. Sample locations, descriptions, and assay certificates are included in the appendix. A 1:10,000 map with Au plotted in ppb is included at the end of the report.

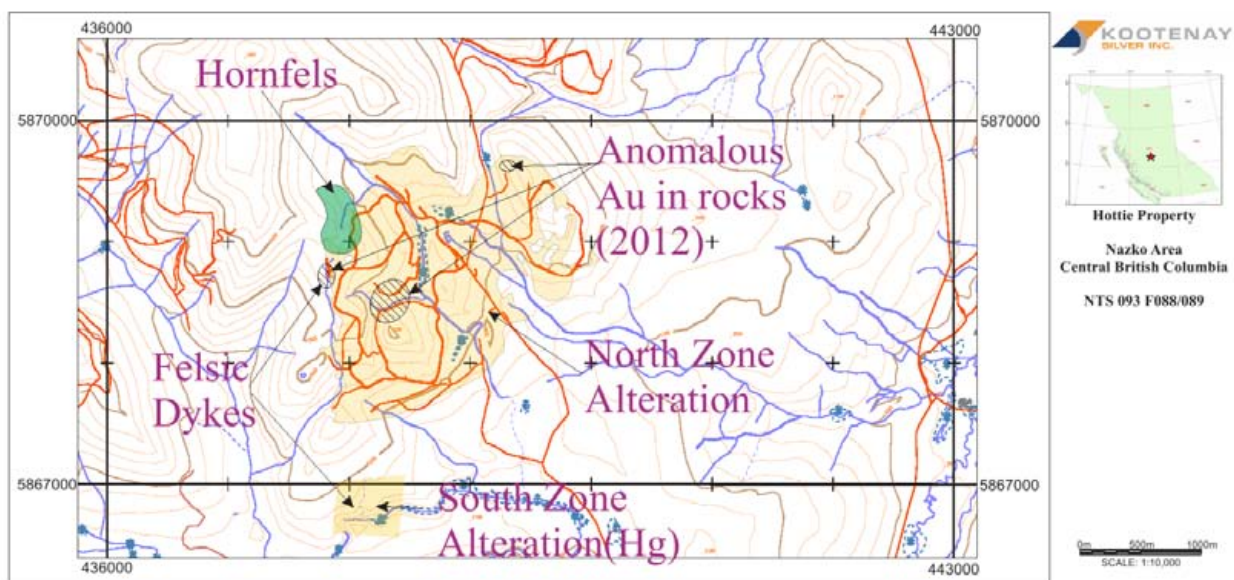


Figure 2: Generalized alteration map.

Sampling on the property was largely focused on the previously identified North and South Zones. Anomalous gold (>10 ppb Au) was returned in 19 of the collected samples with four samples assaying over 100 ppb. The highest gold value returned was 426.1 ppb (SK12-48). Numerous samples returned highly anomalous copper up to 1.232% (MK12-55) with nine samples greater than 1000 ppm and 34 samples with over 100 ppm. Anomalous values were given for numerous elements, including multiple sample strings with anomalous Au, Cu, Zn, As, Sb, Bi, Ba, and Hg. Individual high values include: Mo (211.7 ppm, MK12-59), Zn (1181 ppm, MK12-64), Ag (15.1 ppm, MK12-55), As (>10,000 ppm, SK12-48, 54, MK12-55), Sb (218 ppm, MK12-55), Bi (1064.6 ppm, MK12-52), Ba (1730, SK12-62), and Hg (11.23 ppm, MK12-64).

Anomalous (Au) samples are related to large zones of hydrothermally altered crackle breccia. Alteration assemblages include; Fe-oxides (goethite, hematite, magnetite), manganese, sericite, Fe-carbonate, calcite, jasper, and quartz. Open space quartz veins within the larger alteration zones are

often sheeted with Fe-oxide wad. Late chalcedonic and druse quartz was noted in a few locations possibly indicating late stage high elevation hotspots overprinting or resurgence of the system. Host rocks that appear most affected by this style of alteration are restricted to Hazelton Group sediments and volcanics.

Cretaceous (?) diorite has locally hornfelsed host sediments (pyrite, chalcopyrite, and chlorite). Wide spread anomalous copper values returned from Fe-oxide bearing crackle breccias may be related to this Cretaceous diorite and are possibly indicative of a lower level Cretaceous porphyry system.

Within the largest zone (North Zone) of alteration there is at least one quartz-eye dyke. The dyke resembles Eocene Ootsa Lake Group felsic volcanic rocks that are regionally recognized. Locally the dyke is altered and brecciated similar to the larger zones possibly indicative of a later Tertiary mineralizing event (resurgent hot spring). In the South Zone an intensely clay altered feldspar porphyry dyke (Tertiary?) was found within the larger zones of altered breccias and may be related to the Ootsa Lake Group rocks observed in the North Zone. Highly anomalous values for Hg, Sb, Ba, and As returned from both the North and South alteration zones may be related to the Tertiary dykes.

Conclusions and Recommendations

During the summer of 2012 a program of rock sampling was conducted on the Hottie mineral claims in central BC. 100 samples were collected and anomalous results were obtained for Au, Ag, Cu, Mo, Zn, Sb, Bi, Ba, and Hg. Anomalous values are related to widespread zones of structurally controlled hydrothermal alteration that are spatially related to a Cretaceous diorite (?) and late felsic dykes (Ootsa Lake Group). The geological setting is consistent with a Cretaceous porphyry system overprinted by a Cretaceous-Tertiary caldera related epithermal system. Geochemically the system marries well to this model with anomalous pathfinder elements associated with late stage chalcedonic and druse quartz.

At this point further work is warranted on the property. This would entail a full compilation of existing data, including compilation of the airborne survey completed in 1994. Old logging and exploration roads should be brushed out to facilitate further ground work. Detailed soil sampling in the North Zone is warranted particularly near where gold was encountered in outcrop. Further detailed prospecting and mapping is recommended both on the north zone and south zone. The goal of this work would be to define trench targets for follow up work in 2013.

Statement of Costs

Rock Samples	100 @ \$30/sample	\$3,000
Sean Kennedy August 3-8 2012	6 days @ \$350/day	\$2,100
Mike Kennedy August 3-8 2012	6 days @ \$500/day (vehicle inclusive)	\$3,000
Craig Kennedy August 8 2012	1 day @ \$350/day	\$350
ATV Rental	6 days @ \$150/day	\$900
Travel/living out		\$2,260
<u>Report and Maps</u>		<u>\$1,000</u>
Total		\$12,610

Statement of Qualifications

I, Sean Kennedy, certify that:

1. I am an independent prospector residing at 107 6th Ave, Kimberley, BC.
2. I have been actively prospecting throughout BC, Nevada, Mexico, and Arizona for the past 15 years
3. I have been employed as a professional prospector by junior mineral exploration companies.
4. I own and maintain mineral claims in BC.

APPENDIX

ROCK SAMPLE LOCATIONS AND DESCRIPTIONS

Sample	UTM E	UTM N	Description
SK12-25	438851	5868934	Subcropping? Bleached felsic rock w/M/goe fractures, thin qtz veins with goethite
SK12-26	438962	5869537	Mafic volcanic, fractured with thin qtz-carb veins, goe, calcite, Mn
SK12-27	439283	5869610	Pebble conglomerate, rusty goethite/hem rich thin open space qtz veins, veins trend 260/80 N
SK12-28	439289	5869606	Same as last
SK12-29	439319	5869608	Less coars pebble conglomerate with thin qtz veins with goe, hem, Mn wad
SK12-30	441810	5869455	Pebble conglomerate, goe/hem wad veins
SK12-31	442491	5869601	4 pieces of angular milky qtz vein float in pebble conglomerate and siltstone till, ser, goe, open space, strong alteration of pebble conglomerate
SK12-32	442323	5870530	Abundant felsic crystal shard tuff, thin, druse qtz veins, ser/hem alt.
SK12-33	438335	5868214	Subcropping carb punk altered fractured siliceous fine grained rock, possibly intruding pebble conglomerate or a finer grained member of the section, goe/carb/bleached, green clay
SK12-34	438320	5868246	Same as last
SK12-35	438229	5868369	Intensely sericite/bleached bx with goe/hem mottling and thin qtz veins
SK12-36	438200	5868263	Andesite bx in talus, fractures with qtz and goe/hem/carb
SK12-37	438289	5868119	Andesite bx with epidote and magnetite, qtz vein with magnetite wad
SK12-38	437743	5868076	Drust qtz vein stockwork float
SK12-39	437721	5868118	Milky qtz vein in aphanitic rock, some goe/ser alteration
SK12-40	437899	5867958	Carb/phyllitic altered grey volcanic conglomerate, milky qtz veins with goe/ser/Mn/carb
SK12-41	437757	5869349	Siliceous hornfels bx float qtz ven stockwork, fractures with Cpy/py in matrix
SK12-42	437819	5868932	Same unit, grey siltstone, hornfels, fractures with Cpy/mal related to calcite and qtz fractures
SK12-43	437842	5868904	Carb/goe/Mn altered and fractures andesite, some milky qtz-calcite veins with magnetite and pyrite
SK12-44	437903	5868854	grey siltstone, brecciated with thin qtz-calcite-chlorite gashes, rare cpy, fracture py
SK12-45	437985	5868922	Silicified bx/crush zone related to zone of goe/hem/carb/mn/ser alteration, yellow green stain
SK12-46	437985	5868922	Same as last
SK12-47	437824	5868683	Qtz eye porphyry/felsite, old trenches, thin qtz veins with goe/hem/mag wad, sericite flakes
SK12-48	438044	5869760	Subcropping brown alteration zone with qtz veins with goethite
SK12-49	439085	5868295	Strongly altered zone with goe/hem/ser/Mn/carb breccias, forming a 30 degree trending rib > 3 m wide, flanked by Mn/carb altered fractures
SK12-50	438532	5868269	Zone of bleaching and fractures with goe/hem/carb/mn, thin xstalline qtz veins w/goe/hem wad and ser
SK12-51	438245	5868422	Same as last
SK12-52	438246	5868426	Same as last
SK12-53	438268	5868433	Same as last, qtz vein are 8/52 E
SK12-54	438375	5868471	Series of qtz veins in highly altered zone of goe/hem/carb/ser/Mn, qtz is 306/36 e
SK12-55	438411	5868488	330/40 E qtz veins, same as last, vein has been rebrecciated and has some druse qtz overprinting with a brown jasper
SK12-56	438580	5868558	Same as last, patch qtz veins and alteration in this area

SK12-57	438519	5868654	Same as last, more Mn, the zones are poddy and intensify then dissappear quickly, distal alteration is typically calcit-chlorite-pyrite into bleachingwith goethite-carbonate-Mn into sericite-goethite-hematite-magnetite-Mn-carbonate-qtz
SK12-58	437971	5866814	Hard brown rock in a tectonic bx, siliceous goethite/hematite veins in a highly milled zone, green waxy clay, Mn
SK12-59	437971	5866814	Same as last
SK12-60	437968	5866812	Same as last
SK12-61	437933	5866799	Crushed bx with Fe-carbonate matrix, goe, ser
SK12-62	437946	5866756	NE trending brecci zone with goethite and hematite, bleaching, milled/tectonized
SK12-63	438010	5866779	Strongly clay altered dyke, waxy white clay, looks like a feldspar porphyry, thin grey water qtz veins, trends 340/56 E
SK12-64	438026	5866781	Pebble conglomerate with thin open space qtz veins with hem along margins, green clay
Mk12-9	438839	5869750	2 by 5 metre argillic alt zone on road,some py,Composite .
Mk12-10	438831	5869773	5 by 1 metre rubble zone on road argillic alt.
Mk12-11	438419	5870278	10 metre rubble zone on road 290 trend argillic alt
Mk12-12	438533	5870209	argillic zone on road,SC some brecciation
Mk12-13	438551	5870188	OC Carbonate rich argillic breccia on road 2 metre zone.
Mk12-14	438558	5870170	1 by 8 metre zone of argillic carbonate rich material .
Mk12-15	438563	5870137	Carbonate calcite rich breccia with rare qtz.1by 1 metre zone
Mk12-16	438566	5870072	Argillic zone 1 by 1 metre zone on road.
Mk12-17	438558	5869968	5by 1 metre zone on road qtz stringers
Mk12-18	438583	5869861	5 metre exposure of argillic alt material brecciated composite.
Mk12-19	441999	5870085	Subcrop of qtz veins with lim.
Mk12-20	438187	5867812	Float 6 inch peices brecciated on road.
Mk12-21	438250	5867854	Small chips qtz breccia.
Mk12-22	437675	5867792	Small qtz vein zone in andesite?
Mk12-23	437544	5867810	Small qtz vein zone in andesite?
Mk12-24	437932	5867772	Brecciated seds argillic alt,subcrop.
Mk12-25	437970	5869794	Carbonate alt with iron stain on fractures 2 metre composite
Mk12-26	437748	5869343	Hornfel Float with cpy and Py.
Mk12-27	437709	5868877	Hornfel Float with cpy and Py.
Mk12-28	437676	5868833	Small qtz veins cutting rhyolite in subcrop.
Mk12-29	437772	5868716	Subcrop with weak stockwork qtz veins,and hem stain.
Mk12-30	437775	5868715	Subcrop with weak stockwork qtz veins,and hem stain,goethite .In old trench.
Mk12-31	437816	5868692	Subcrop with weak stockwork qtz veins,and hem stain,goethite .In old trench.
Mk12-32	437816	5868693	Subcrop with weak stockwork qtz veins,and hem stain.
Mk12-33	437830	5868693	Subcrop with weak stockwork qtz veins,and hem stain.
Mk12-34	437817	5868702	Qtz vein rubble.
Mk12-35	437802	5868719	subcropping 2 inch qtz vein with hem stain.
Mk12-36	437256	5868827	Small epidote qtz breccia in andesite or diorite.
Mk12-37	437096	5868913	4 inch epidote qtz breccia in diorite or andesite outcrop
Mk12-38	438128	5869602	argillic alt on road with hem stain and weak brecciation.
Mk12-39	439144	5868226	Conglomerate with hem,lim stain.

Mk12-40	439127	5868226	Breccia crush orange brown colour in subcrop.
Mk12-41	439083	5868222	Conglomerate crush with hem,lim,stain.
Mk12-42	439106	5868224	Small crush breccia subcropping.
Mk12-43	438535	5868324	Microveins and chocolate colour in brecciated rock .
Mk12-44	438515	5868319	2 inch qtz vein ,hem lim,stain.
Mk12-45	438227	5868391	Qtz rich chips with cerisite and lim,hem stain.
Mk12-46	438215	5868389	340 trending qtz lim,hemstain zone.
Mk12-47	438214	5868386	qtz veins with lim in subcrop.
Mk12-48	438209	5868390	West trending small qtz veins.
Mk12-49	438203	5868394	320/40North West trending small qtz veins.
Mk12-50	438266	5868472	1 foot peice of hem lim wad rock .
Mk12-51	438290	5868483	2 inch qtz hem lim stain material in alt zone .
Mk12-52	438293	5868499	340/45 1 inch vein hem,lim stain.
Mk12-53	438370	5868574	Colour anomaly area brecciated chips.
Mk12-54	438387	5868581	320 steep trending 4 inch qtz vein.
Mk12-55	438423	5868615	subcropping 4 inch lim hem wad .
Mk12-56	438600	5868610	240/65 3 inch breccia zone.
Mk12-57	438599	5868606	20 degree trending vertical 2 inch qtz vein.
Mk12-58	438635	5868580	Colured brecciated pink orange frags.
Mk12-59	441273	5864435	Calcedonic qtz breccia in out crop.
Mk12-60	438069	5866722	Subcrop in talus alt seds,yellow pink colour.
Mk12-61	438067	5866708	20 metre oc of alt,seds crushed.
Mk12-62	437975	5866678	Brecciated outcrops iron stained crushed.
Mk12-63	437960	5866689	50 degree trending dry alt crushed seds 10 metre zone
Mk12-64	437989	5866665	SC crush breccia with goethite veins.
Mk12-65	437959	5866684	SC crush breccia with colour.
Mk12-66	437956	5866687	SC crush breccia with colour.
Mk12-67	438105	5866803	float iron stain goethite veins.
Mk12-68	438145	5866776	Crushed breccia material with white clay.



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Submitted By: Email Distribution List - Soil & Rock
Receiving Lab: Canada-Vancouver
Received: August 23, 2012
Report Date: September 07, 2012
Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN12003956.1

CLIENT JOB INFORMATION

Project: HOTTIE
Shipment ID:
P.O. Number
Number of Samples: 100

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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: Kootenay Silver Inc.
Suite 920 - 1055 W. Hastings St.
Vancouver BC V6E 2E9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-250, 1DX3, and 7AR.

ADDITIONAL COMMENTS



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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Project: HOTTIE
 Report Date: September 07, 2012

Page: 2 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN12003956.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
G1	Prep Blank	<0.01	<0.1	1.9	2.3	47	<0.1	3.7	4.0	586	1.84	<0.5	1.1	5.6	4.3	53	<0.1	<0.1	<0.1	31	0.39
G1	Prep Blank	<0.01	<0.1	2.1	2.2	50	<0.1	4.3	4.2	588	1.85	<0.5	1.1	2.0	4.3	52	<0.1	<0.1	<0.1	31	0.36
MK12-9	Rock	0.64	0.6	8.2	11.0	172	<0.1	3.5	12.4	1921	5.00	57.4	0.2	2.1	0.7	20	3.3	2.5	0.2	23	0.54
MK12-10	Rock	0.53	1.1	25.6	3.5	116	<0.1	8.3	11.7	2099	6.12	17.0	0.2	0.7	0.6	23	1.7	3.5	0.4	26	0.53
MK12-11	Rock	0.65	1.5	75.6	4.8	110	0.1	29.0	26.5	889	5.58	86.0	0.2	1.8	0.7	13	1.6	7.1	1.2	83	0.42
MK12-12	Rock	0.71	2.0	7.1	3.9	62	<0.1	5.7	7.7	1063	3.19	7.4	0.1	<0.5	0.5	10	0.2	0.5	<0.1	8	0.40
MK12-13	Rock	0.48	0.3	6.4	7.3	75	<0.1	6.0	8.3	1170	2.55	2.4	0.2	<0.5	0.6	14	0.1	0.4	<0.1	11	3.91
MK12-14	Rock	0.91	0.7	5.5	5.1	62	<0.1	6.8	7.2	1802	3.07	23.9	0.2	<0.5	0.5	8	0.5	0.8	<0.1	12	0.25
MK12-15	Rock	0.50	0.2	7.5	11.5	104	<0.1	30.1	13.5	1819	4.52	7.8	0.2	<0.5	0.4	64	1.1	0.7	<0.1	58	15.39
MK12-16	Rock	0.78	0.7	69.9	3.2	103	<0.1	27.5	22.9	888	3.87	57.3	0.2	<0.5	0.6	13	1.2	1.8	<0.1	81	0.50
MK12-17	Rock	0.48	0.4	22.3	3.5	79	<0.1	19.9	12.0	1523	2.72	25.1	0.1	<0.5	0.8	9	3.0	1.1	0.3	21	0.25
MK12-18	Rock	0.63	0.7	22.6	3.4	130	<0.1	30.8	12.3	1604	3.53	44.5	0.2	5.4	0.6	7	9.3	2.1	0.1	23	0.10
MK12-19	Rock	0.51	2.1	0.8	16.9	8	<0.1	1.0	0.2	50	0.46	22.5	1.5	0.8	6.4	25	<0.1	0.7	<0.1	<2	0.02
MK12-20	Rock	0.31	0.6	38.9	4.3	161	0.2	79.1	9.2	219	7.48	42.7	0.2	5.2	0.9	4	1.7	8.0	0.1	33	0.03
MK12-21	Rock	0.29	0.5	47.6	9.8	79	0.5	33.9	9.2	623	1.55	8.6	0.2	0.8	0.4	4	1.8	6.8	<0.1	22	0.03
MK12-22	Rock	0.33	0.2	55.7	1.2	70	<0.1	63.1	26.0	698	4.07	0.6	0.1	1.3	0.6	24	0.2	0.2	<0.1	73	3.00
MK12-23	Rock	0.31	0.1	33.8	0.8	56	<0.1	46.6	18.7	733	3.05	0.6	<0.1	<0.5	0.3	85	<0.1	0.3	<0.1	44	3.75
MK12-24	Rock	0.46	0.8	56.7	2.7	275	0.2	298.6	22.2	413	5.05	15.3	0.4	0.5	1.0	9	1.0	1.6	<0.1	71	0.12
MK12-25	Rock	0.73	0.2	78.1	7.9	270	0.3	119.5	15.8	528	3.97	25.2	0.4	1.0	1.6	9	2.5	2.1	0.1	79	0.22
MK12-26	Rock	0.60	123.1	594.8	1.3	87	0.9	144.9	21.6	659	4.46	<0.5	1.3	57.1	1.1	318	0.8	0.5	9.9	81	1.69
MK12-27	Rock	0.58	1.4	127.1	3.0	250	1.1	243.6	18.8	559	3.58	28.4	0.2	7.9	1.5	22	2.7	0.7	0.6	300	0.57
MK12-28	Rock	0.27	0.2	3.0	0.8	8	<0.1	4.3	0.5	69	0.27	<0.5	0.6	<0.5	3.9	9	0.1	<0.1	<0.1	3	0.07
MK12-29	Rock	0.49	1.4	17.5	3.6	73	<0.1	8.0	1.6	608	0.57	23.5	0.4	1.2	3.5	4	1.1	0.7	1.2	6	0.03
MK12-30	Rock	0.43	0.4	8.4	1.6	9	<0.1	1.1	0.7	71	0.28	2.8	0.4	<0.5	3.4	4	0.1	0.7	0.1	<2	0.02
MK12-31	Rock	0.35	0.8	168.5	24.2	110	0.6	0.9	1.3	60	1.97	125.2	2.6	92.9	5.0	6	5.8	1.1	15.7	7	0.04
MK12-32	Rock	0.44	0.7	297.9	2.6	70	0.3	0.8	2.4	50	2.05	62.8	2.3	26.6	4.1	5	2.8	0.8	4.4	3	0.01
MK12-33	Rock	0.49	1.3	173.5	2.8	99	0.4	1.9	3.0	72	1.91	325.0	2.3	15.5	3.8	9	2.7	4.3	4.2	6	0.03
MK12-34	Rock	0.46	3.3	148.1	2.0	55	0.8	1.0	1.5	42	3.59	374.9	2.0	82.4	4.1	4	1.0	6.3	9.9	4	<0.01
MK12-35	Rock	0.31	2.5	114.8	1.1	17	<0.1	7.0	8.5	77	1.75	193.8	1.0	6.4	0.5	2	1.2	3.6	0.4	4	<0.01
MK12-36	Rock	0.27	0.2	47.7	0.8	85	<0.1	71.3	28.4	754	3.73	1.4	<0.1	<0.5	0.4	148	0.4	0.1	<0.1	58	1.16

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Project: HOTTIE
 Report Date: September 07, 2012

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CERTIFICATE OF ANALYSIS

VAN12003956.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	7AR
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	0.001	
G1	Prep Blank	0.081	6	6	0.57	228	0.100	2	1.02	0.100	0.49	<0.1	0.02	2.5	0.3	<0.05	5	<0.5	<0.2	
G1	Prep Blank	0.078	6	7	0.56	235	0.098	<1	0.97	0.094	0.51	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2	
MK12-9	Rock	0.142	9	4	0.79	193	0.002	2	1.52	0.015	0.17	<0.1	0.13	2.4	<0.1	0.05	3	<0.5	<0.2	
MK12-10	Rock	0.167	12	3	0.18	225	0.003	2	0.79	0.007	0.20	<0.1	0.15	3.3	0.2	<0.05	2	2.1	<0.2	
MK12-11	Rock	0.195	10	14	0.13	107	0.003	2	0.88	0.001	0.10	<0.1	0.14	9.9	<0.1	<0.05	2	<0.5	<0.2	
MK12-12	Rock	0.105	11	1	0.10	149	0.001	2	0.69	0.014	0.12	<0.1	0.04	1.1	<0.1	<0.05	1	<0.5	<0.2	
MK12-13	Rock	0.102	13	1	0.08	91	0.002	2	0.61	0.002	0.12	<0.1	0.20	1.8	<0.1	<0.05	1	<0.5	<0.2	
MK12-14	Rock	0.101	11	2	0.06	285	0.002	3	0.60	0.003	0.15	0.1	0.14	1.9	<0.1	<0.05	1	<0.5	<0.2	
MK12-15	Rock	0.051	6	5	0.49	164	0.003	1	0.39	0.001	0.07	0.1	0.27	1.9	<0.1	<0.05	<1	<0.5	<0.2	
MK12-16	Rock	0.234	8	21	0.09	72	0.004	1	0.77	<0.001	0.07	<0.1	0.11	14.9	<0.1	<0.05	2	<0.5	<0.2	
MK12-17	Rock	0.109	11	5	0.09	190	0.002	1	0.57	0.003	0.14	<0.1	0.26	3.1	<0.1	<0.05	1	<0.5	<0.2	
MK12-18	Rock	0.055	9	12	0.04	149	0.001	<1	0.46	0.003	0.12	<0.1	0.05	2.8	<0.1	<0.05	<1	<0.5	<0.2	
MK12-19	Rock	0.010	5	<1	0.01	34	<0.001	2	0.21	0.029	0.10	<0.1	0.06	0.3	<0.1	<0.05	<1	<0.5	<0.2	
MK12-20	Rock	0.023	6	22	0.04	63	<0.001	3	0.36	0.008	0.15	<0.1	0.08	5.7	<0.1	<0.05	<1	<0.5	<0.2	
MK12-21	Rock	0.025	4	9	0.09	82	0.002	<1	0.29	0.002	0.05	<0.1	0.04	1.8	<0.1	<0.05	<1	<0.5	<0.2	
MK12-22	Rock	0.154	10	83	1.89	50	0.143	8	3.52	0.053	0.02	0.1	0.01	6.7	<0.1	<0.05	14	<0.5	<0.2	
MK12-23	Rock	0.099	6	72	1.80	23	0.110	1	2.02	0.031	0.02	<0.1	<0.01	3.6	<0.1	<0.05	6	<0.5	<0.2	
MK12-24	Rock	0.057	9	52	0.07	107	0.004	2	0.57	0.001	0.08	<0.1	0.07	5.4	<0.1	<0.05	1	<0.5	<0.2	
MK12-25	Rock	0.064	12	53	1.62	100	0.005	5	2.53	0.003	0.20	<0.1	0.03	5.7	<0.1	<0.05	6	<0.5	<0.2	
MK12-26	Rock	0.042	2	121	2.15	165	0.083	<1	3.98	0.268	0.33	0.9	<0.01	8.1	0.2	0.71	9	30.5	<0.2	
MK12-27	Rock	0.045	8	171	3.40	311	0.052	<1	3.21	0.071	0.38	<0.1	0.01	15.1	<0.1	<0.05	12	1.1	<0.2	
MK12-28	Rock	0.008	8	3	0.09	48	<0.001	<1	0.28	0.047	0.08	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2	
MK12-29	Rock	0.010	5	4	0.04	106	0.001	<1	0.37	0.003	0.09	<0.1	0.02	0.8	0.2	<0.05	<1	<0.5	<0.2	
MK12-30	Rock	0.005	6	1	<0.01	52	<0.001	<1	0.33	0.006	0.09	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2	
MK12-31	Rock	0.011	12	1	0.01	82	<0.001	1	0.33	0.015	0.12	<0.1	0.05	0.7	0.1	<0.05	<1	0.5	0.2	
MK12-32	Rock	0.009	9	1	0.01	73	<0.001	1	0.29	0.009	0.11	<0.1	0.09	0.5	<0.1	<0.05	<1	4.3	<0.2	
MK12-33	Rock	0.013	8	2	0.01	92	<0.001	<1	0.25	0.006	0.16	0.1	0.04	0.5	<0.1	<0.05	<1	15.1	<0.2	
MK12-34	Rock	0.014	11	1	<0.01	84	<0.001	<1	0.22	0.006	0.11	<0.1	0.04	0.5	<0.1	<0.05	<1	15.8	0.3	
MK12-35	Rock	0.008	9	3	<0.01	11	<0.001	<1	0.04	0.002	<0.01	0.1	0.03	0.7	<0.1	<0.05	<1	17.2	<0.2	
MK12-36	Rock	0.140	9	106	2.62	24	0.209	3	2.83	0.121	0.03	<0.1	0.01	6.1	<0.1	<0.05	8	<0.5	<0.2	

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Project: HOTTIE
 Report Date: September 07, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN12003956.1

Method Analyte	Unit	WGHT	1DX30																		
			Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MK12-37	Rock	0.51	0.2	6.5	1.2	13	<0.1	12.8	5.4	227	0.78	0.8	<0.1	<0.5	0.2	23	0.2	0.1	<0.1	41	4.63
MK12-38	Rock	0.63	0.6	75.8	1.6	73	0.1	25.0	19.0	1102	4.09	152.8	0.2	<0.5	1.0	14	1.2	6.0	0.3	41	0.34
MK12-39	Rock	0.37	0.5	38.6	2.6	179	0.2	65.1	46.0	363	2.55	66.1	0.1	<0.5	0.6	4	0.5	2.1	0.3	43	0.06
MK12-40	Rock	0.52	2.7	39.6	0.4	142	<0.1	98.5	17.6	3595	13.33	24.4	0.3	1.2	1.2	26	0.2	0.5	0.1	49	0.02
MK12-41	Rock	0.56	1.5	20.9	1.5	64	<0.1	21.8	6.0	99	7.62	12.4	0.2	1.3	0.7	4	0.5	1.4	0.1	24	0.02
MK12-42	Rock	0.43	4.9	4.2	1.7	167	<0.1	155.1	113.3	336	16.24	110.6	0.4	7.8	1.3	13	0.5	2.4	0.2	125	0.05
MK12-43	Rock	0.74	1.1	23.7	6.9	77	<0.1	7.1	4.7	110	3.28	26.3	0.1	2.6	0.7	8	1.1	6.5	0.8	5	0.15
MK12-44	Rock	0.33	8.9	1278	7.9	72	2.1	2.0	4.9	119	10.86	122.5	0.2	7.9	0.5	6	1.2	7.2	27.4	17	0.14
MK12-45	Rock	0.30	3.0	230.7	2.1	291	0.3	4.3	3.2	122	5.80	228.6	<0.1	1.1	0.6	7	4.9	11.6	8.1	11	0.15
MK12-46	Rock	0.36	1.8	374.8	3.1	1078	0.4	3.0	5.1	397	7.63	62.9	<0.1	4.6	0.6	7	6.3	11.5	4.7	6	0.13
MK12-47	Rock	0.40	4.8	110.9	2.8	124	0.3	3.6	0.5	110	8.19	109.3	0.1	30.3	0.3	9	4.1	24.8	102.9	8	0.01
MK12-48	Rock	0.32	5.6	93.9	5.1	189	0.3	45.8	1.9	152	7.18	164.4	0.2	5.2	0.3	8	8.0	34.0	30.6	9	0.01
MK12-49	Rock	0.41	1.6	62.0	5.7	61	0.1	20.3	14.2	1527	2.58	69.9	0.2	<0.5	0.5	13	0.4	13.5	1.2	13	0.26
MK12-50	Rock	0.73	4.5	3060	8.5	21	2.6	8.1	24.3	71	23.36	4145	0.5	34.7	<0.1	14	2.5	56.4	129.7	128	0.07
MK12-51	Rock	0.36	1.3	500.8	12.4	96	0.4	3.4	40.4	744	12.00	1322	0.1	3.0	0.2	8	2.7	13.1	4.9	51	0.06
MK12-52	Rock	0.39	2.4	1504	16.6	74	2.5	1.3	3.9	189	10.03	4437	0.2	2.1	0.5	10	7.4	34.5	1065	11	0.11
MK12-53	Rock	0.48	0.5	67.7	3.4	74	0.1	2.6	2.0	250	6.20	164.7	0.2	<0.5	0.6	9	0.8	2.7	5.5	17	0.27
MK12-54	Rock	0.41	3.3	1219	9.3	35	1.5	4.7	9.3	129	15.73	7073	0.3	399.6	<0.1	17	1.9	23.8	489.5	21	0.10
MK12-55	Rock	0.35	14.1	>10000	9.6	138	15.1	6.8	17.8	202	25.68	>10000	0.7	232.4	<0.1	34	17.5	218.0	231.1	137	0.59
MK12-56	Rock	0.40	0.6	55.1	2.8	84	<0.1	40.6	15.0	2644	6.14	141.6	0.2	<0.5	0.3	36	0.7	6.9	2.1	49	17.32
MK12-57	Rock	0.57	2.2	92.2	4.7	114	0.4	36.8	24.8	2436	10.54	64.1	0.2	0.5	0.4	35	1.1	4.6	0.6	40	7.97
MK12-58	Rock	0.28	0.6	118.8	4.4	237	<0.1	59.8	29.2	508	9.42	27.2	0.6	<0.5	0.5	24	1.7	2.4	0.2	81	0.31
MK12-59	Rock	0.33	211.7	43.8	6.1	66	<0.1	2.7	9.7	283	12.99	280.0	2.7	<0.5	4.0	48	0.2	0.2	0.2	41	0.12
MK12-60	Rock	0.54	6.3	77.1	3.8	436	<0.1	146.6	14.0	418	5.96	36.2	2.0	9.0	1.8	9	5.0	9.3	0.1	57	0.06
MK12-61	Rock	0.63	14.1	94.3	8.0	410	0.2	160.5	4.5	68	11.98	121.5	0.9	7.0	1.7	15	3.9	14.2	0.1	62	0.04
MK12-62	Rock	0.43	8.2	139.4	6.1	559	<0.1	382.4	12.2	1087	13.97	351.5	4.1	7.7	0.5	7	6.7	45.7	0.2	148	0.02
MK12-63	Rock	0.57	1.5	75.2	4.7	291	<0.1	153.9	12.8	790	4.29	181.1	1.6	10.0	0.9	20	3.1	19.4	0.1	102	0.20
MK12-64	Rock	0.47	6.6	128.5	3.6	1181	0.1	399.0	9.0	493	20.47	474.2	3.2	6.2	1.1	11	15.2	43.3	<0.1	226	0.03
MK12-65	Rock	0.41	1.7	79.4	7.4	345	0.2	196.3	9.2	1331	9.55	52.2	0.7	10.7	0.8	6	6.9	5.2	0.1	48	0.04
MK12-66	Rock	0.41	5.5	59.4	6.0	442	<0.1	311.9	13.7	2001	15.75	82.5	1.0	4.0	1.1	7	14.3	5.1	<0.1	81	0.09

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN12003956.1

Method Analyte Unit MDL	1DX30 P %	1DX30 La ppm	1DX30 Cr ppm	1DX30 Mg %	1DX30 Ba ppm	1DX30 Ti %	1DX30 B ppm	1DX30 Al %	1DX30 Na %	1DX30 K %	1DX30 W ppm	1DX30 Hg ppm	1DX30 Sc ppm	1DX30 Ti ppm	1DX30 S %	1DX30 Ga ppm	1DX30 Se ppm	1DX30 Te ppm	7AR Cu %
MK12-37	Rock	0.045	3	15	0.31	50	0.082	7	3.34	0.007	0.02	<0.1	<0.01	2.5	<0.1	<0.05	13	<0.5	<0.2
MK12-38	Rock	0.105	11	12	0.16	94	0.005	1	0.78	0.024	0.15	<0.1	0.06	6.1	<0.1	<0.05	2	<0.5	<0.2
MK12-39	Rock	0.018	4	10	0.24	77	0.002	<1	0.57	0.003	0.04	<0.1	0.01	4.9	<0.1	<0.05	2	<0.5	<0.2
MK12-40	Rock	0.029	<1	11	0.01	294	0.001	<1	0.38	0.008	0.04	<0.1	0.25	4.7	<0.1	<0.05	2	<0.5	<0.2
MK12-41	Rock	0.098	4	9	0.01	47	0.001	2	0.24	0.003	0.07	<0.1	0.02	3.0	<0.1	<0.05	<1	<0.5	<0.2
MK12-42	Rock	0.027	3	19	0.04	34	0.005	2	0.49	0.041	0.15	0.2	2.22	3.4	<0.1	<0.05	2	<0.5	<0.2
MK12-43	Rock	0.083	10	<1	0.03	41	0.002	2	0.69	0.004	0.22	<0.1	0.22	1.1	<0.1	<0.05	1	<0.5	<0.2
MK12-44	Rock	0.096	7	3	0.03	73	0.002	2	0.32	0.006	0.23	<0.1	0.04	1.1	<0.1	<0.05	<1	0.7	<0.2
MK12-45	Rock	0.107	10	2	0.02	64	0.001	2	0.38	0.010	0.26	0.1	0.03	1.0	<0.1	<0.05	<1	<0.5	<0.2
MK12-46	Rock	0.104	11	3	0.02	82	0.001	2	0.38	0.011	0.26	0.2	0.18	1.1	0.2	<0.05	<1	0.6	<0.2
MK12-47	Rock	0.081	8	2	0.01	42	<0.001	2	0.31	0.008	0.20	0.1	0.42	1.1	<0.1	<0.05	1	3.7	0.8
MK12-48	Rock	0.070	6	2	0.02	43	0.001	2	0.31	0.007	0.20	0.1	0.47	1.3	<0.1	<0.05	<1	1.0	0.3
MK12-49	Rock	0.150	10	2	0.03	103	0.002	2	0.46	0.010	0.25	<0.1	0.27	1.6	0.2	<0.05	1	<0.5	<0.2
MK12-50	Rock	0.086	<1	25	0.03	50	<0.001	<1	0.01	0.001	<0.01	0.1	0.28	0.4	<0.1	0.11	<1	1.7	<0.2
MK12-51	Rock	0.084	5	6	0.07	65	0.002	1	0.37	0.004	0.10	0.1	0.28	2.1	0.1	<0.05	1	<0.5	<0.2
MK12-52	Rock	0.066	7	5	0.01	64	0.001	<1	0.33	0.009	0.20	<0.1	0.08	0.8	<0.1	<0.05	<1	0.7	<0.2
MK12-53	Rock	0.171	9	2	0.04	58	0.002	1	0.72	0.006	0.22	<0.1	0.03	1.5	<0.1	<0.05	1	<0.5	<0.2
MK12-54	Rock	0.077	1	7	<0.01	48	<0.001	<1	0.06	0.004	<0.01	<0.1	0.11	0.4	<0.1	<0.05	<1	1.1	0.7
MK12-55	Rock	0.182	1	63	0.02	125	<0.001	<1	0.06	0.004	<0.01	<0.1	0.54	0.7	<0.1	<0.05	<1	0.5	0.4 1.232
MK12-56	Rock	0.073	7	13	0.19	179	0.003	2	0.42	0.002	0.14	0.5	0.17	5.1	<0.1	<0.05	1	<0.5	<0.2
MK12-57	Rock	0.075	7	4	0.14	217	0.002	1	0.39	0.002	0.10	0.2	0.22	3.4	<0.1	<0.05	<1	0.8	<0.2
MK12-58	Rock	0.129	10	17	0.10	38	0.002	2	0.83	0.001	0.12	<0.1	0.29	7.4	<0.1	<0.05	1	0.5	<0.2
MK12-59	Rock	0.056	9	2	0.08	839	0.027	<1	0.92	0.021	0.17	<0.1	0.10	3.5	0.2	0.15	6	<0.5	<0.2
MK12-60	Rock	0.060	4	24	0.33	135	0.001	2	1.07	0.002	0.21	<0.1	0.57	6.4	0.2	<0.05	4	33.0	<0.2
MK12-61	Rock	0.097	5	31	0.04	73	0.001	1	0.40	0.010	0.19	<0.1	0.61	11.1	<0.1	<0.05	1	2.7	<0.2
MK12-62	Rock	0.134	4	114	0.02	301	0.002	1	0.42	0.006	0.07	0.1	7.29	7.2	0.8	<0.05	2	21.0	<0.2
MK12-63	Rock	0.155	12	23	0.13	145	0.003	4	0.44	0.009	0.18	0.2	1.06	5.1	<0.1	<0.05	2	<0.5	<0.2
MK12-64	Rock	0.347	5	13	0.02	172	0.003	<1	0.39	0.008	0.09	0.3	11.23	21.2	0.4	<0.05	2	<0.5	<0.2
MK12-65	Rock	0.117	8	31	0.30	449	0.001	<1	0.96	0.005	0.12	<0.1	2.22	5.3	0.3	<0.05	3	5.1	<0.2
MK12-66	Rock	0.160	5	67	0.57	508	0.002	<1	1.52	0.001	0.13	<0.1	1.47	5.3	1.0	<0.05	6	3.0	<0.2

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Project: HOTTIE
 Report Date: September 07, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN12003956.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
MK12-67	Rock	0.33	1.5	102.0	14.7	336	<0.1	233.7	18.0	124	16.04	68.6	0.7	3.7	1.0	7	4.5	36.2	<0.1	65	0.05
MK12-68	Rock	0.41	0.4	47.0	3.7	167	<0.1	73.3	20.6	780	6.20	2.2	0.2	1.2	1.1	9	0.8	2.0	<0.1	84	0.11
SK12-25	Rock	0.56	1.3	60.7	3.0	298	0.1	2.6	2.8	134	4.38	526.3	<0.1	0.6	0.7	6	7.5	4.5	0.8	9	0.11
SK12-26	Rock	0.71	<0.1	1.5	1.5	69	<0.1	0.8	7.8	901	3.13	1.8	0.1	<0.5	0.5	58	0.1	0.3	<0.1	23	2.81
SK12-27	Rock	0.82	14.9	68.8	9.6	356	0.2	162.8	44.2	509	7.04	68.4	1.2	97.8	0.6	4	2.3	9.4	0.5	22	0.02
SK12-28	Rock	0.73	11.2	29.0	5.1	305	0.1	125.2	13.9	155	8.05	78.7	0.9	133.9	0.4	4	1.5	18.7	0.4	13	0.02
SK12-29	Rock	0.84	1.0	24.0	1.4	119	<0.1	51.8	5.0	124	5.01	19.5	0.2	12.2	0.6	6	0.7	0.7	0.2	42	0.01
SK12-30	Rock	0.65	1.6	65.0	10.5	224	0.5	85.4	64.9	4446	5.64	118.9	0.4	5.0	0.4	9	0.7	12.3	<0.1	25	0.02
SK12-31	Rock	0.63	<0.1	2.3	0.1	2	<0.1	2.6	0.3	25	0.32	4.2	<0.1	2.1	<0.1	6	<0.1	0.1	0.1	<2	<0.01
SK12-32	Rock	0.65	0.6	1.5	13.5	11	<0.1	2.9	0.9	120	0.35	7.8	0.6	5.0	6.1	4	<0.1	0.4	0.6	<2	0.02
SK12-33	Rock	0.65	0.4	45.6	9.5	96	0.3	70.5	7.7	240	1.53	31.0	0.2	6.9	0.5	8	1.9	1.8	0.2	77	0.36
SK12-34	Rock	0.66	8.6	82.9	6.5	144	0.7	133.5	12.2	166	1.95	31.6	0.2	4.6	0.8	5	1.5	3.7	0.2	64	0.08
SK12-35	Rock	0.57	3.2	234.7	4.2	781	0.2	9.8	8.4	210	7.19	193.1	0.2	2.3	0.5	7	12.2	12.4	2.4	16	0.09
SK12-36	Rock	0.68	0.6	169.5	2.2	101	0.2	7.8	49.4	423	5.18	39.8	0.1	<0.5	0.8	12	1.6	2.8	0.9	47	0.32
SK12-37	Rock	1.10	3.6	5302	62.0	875	2.2	23.5	100.1	101	24.12	1977	0.7	27.1	<0.1	13	158.4	27.1	74.4	206	0.10
SK12-38	Rock	0.51	0.2	40.4	3.6	101	<0.1	4.0	7.2	438	2.52	2.6	<0.1	2.6	0.4	9	0.4	<0.1	0.2	38	0.24
SK12-39	Rock	0.56	0.2	16.7	4.7	75	<0.1	57.3	7.7	257	1.79	3.7	<0.1	5.6	0.5	2	0.3	0.9	0.2	48	0.03
SK12-40	Rock	0.43	0.3	38.9	3.4	105	<0.1	30.5	21.1	1339	3.86	32.0	0.1	1.9	0.4	96	1.2	1.0	0.2	116	4.24
SK12-41	Rock	0.64	52.9	177.9	0.7	22	0.2	76.6	8.1	164	2.03	20.4	1.0	2.7	1.7	21	0.1	0.7	1.1	68	1.05
SK12-42	Rock	0.67	1.3	68.0	3.8	289	0.6	155.8	15.8	554	2.64	22.4	<0.1	3.2	0.8	129	4.7	0.7	0.2	145	2.02
SK12-43	Rock	0.55	22.8	174.3	3.5	113	0.2	34.1	23.2	1663	4.86	12.0	<0.1	4.0	0.3	91	1.2	0.5	2.3	99	1.82
SK12-44	Rock	0.93	0.8	109.3	2.9	304	0.6	204.6	18.4	450	3.40	1.0	0.1	7.8	1.1	135	3.3	0.3	0.2	182	1.62
SK12-45	Rock	0.90	4.8	62.8	26.9	141	0.4	116.5	12.8	137	1.99	59.7	0.3	0.6	0.6	4	1.2	8.7	<0.1	49	0.08
SK12-46	Rock	0.89	1.8	43.9	49.8	66	0.7	86.6	7.3	79	2.04	39.0	0.4	0.7	0.5	4	0.5	8.5	<0.1	64	0.04
SK12-47	Rock	0.63	0.7	51.2	1.3	27	0.2	0.7	0.9	40	1.22	72.8	1.7	1.5	4.2	4	4.2	1.3	0.5	<2	0.01
SK12-48	Rock	0.34	8.4	1435	3.6	39	2.9	9.1	4.8	105	12.38	>10000	0.5	426.1	0.1	27	1.7	29.0	243.5	47	0.42
SK12-49	Rock	0.66	0.4	36.8	1.9	77	<0.1	13.5	20.8	312	5.90	68.1	0.1	2.6	0.7	13	0.2	1.4	0.3	57	0.22
SK12-50	Rock	0.66	9.3	1119	40.7	135	4.4	4.7	2.8	237	15.73	5441	0.3	182.8	0.3	16	13.7	21.7	603.8	10	0.10
SK12-51	Rock	0.70	3.3	118.7	1.8	82	0.3	2.6	31.1	3588	8.80	135.1	0.1	3.7	0.5	20	0.6	6.8	2.2	18	0.10
SK12-52	Rock	0.52	1.7	261.6	1.6	38	0.2	2.8	3.2	367	6.48	293.7	<0.1	<0.5	0.1	4	0.7	15.5	1.2	6	0.03

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Project: HOTTIE
 Report Date: September 07, 2012

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CERTIFICATE OF ANALYSIS

VAN12003956.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	7AR
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	0.001	
MK12-67	Rock	0.188	10	59	0.03	32	0.001	<1	0.64	0.015	0.08	<0.1	0.53	15.0	<0.1	<0.05	2	<0.5	<0.2	
MK12-68	Rock	0.052	20	27	0.06	64	<0.001	1	0.55	0.007	0.04	<0.1	0.21	10.0	<0.1	<0.05	2	<0.5	<0.2	
SK12-25	Rock	0.059	13	2	0.02	45	<0.001	<1	0.46	0.006	0.19	<0.1	0.13	1.0	0.1	<0.05	<1	<0.5	<0.2	
SK12-26	Rock	0.144	11	<1	0.89	111	0.004	<1	1.48	0.039	0.16	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2	
SK12-27	Rock	0.070	3	9	0.06	47	<0.001	<1	0.32	0.004	0.04	<0.1	0.21	4.6	<0.1	<0.05	1	1.1	<0.2	
SK12-28	Rock	0.143	2	5	<0.01	42	0.001	<1	0.18	0.005	0.05	0.2	0.67	3.2	<0.1	<0.05	<1	<0.5	<0.2	
SK12-29	Rock	0.078	4	18	0.03	34	<0.001	<1	0.37	0.004	0.05	<0.1	0.08	4.6	<0.1	<0.05	1	<0.5	<0.2	
SK12-30	Rock	0.038	1	19	0.01	317	0.002	<1	0.23	0.006	0.08	<0.1	0.88	5.8	0.4	<0.05	1	<0.5	<0.2	
SK12-31	Rock	0.005	<1	2	<0.01	3	<0.001	<1	0.02	<0.001	<0.01	<0.1	0.02	0.1	<0.1	<0.05	<1	<0.5	<0.2	
SK12-32	Rock	0.006	8	1	0.01	48	<0.001	3	0.24	0.021	0.16	<0.1	0.14	0.3	<0.1	<0.05	<1	<0.5	<0.2	
SK12-33	Rock	0.031	8	45	0.43	86	0.002	<1	0.71	0.013	0.04	<0.1	0.05	2.9	<0.1	<0.05	2	1.0	<0.2	
SK12-34	Rock	0.032	7	67	0.13	71	<0.001	<1	0.37	0.002	0.05	<0.1	0.08	3.0	<0.1	<0.05	1	1.6	<0.2	
SK12-35	Rock	0.126	9	5	0.04	64	0.002	<1	0.39	0.010	0.26	<0.1	0.11	1.8	<0.1	<0.05	1	3.2	<0.2	
SK12-36	Rock	0.135	15	6	0.95	87	0.005	<1	1.87	0.023	0.34	<0.1	0.08	3.7	0.2	<0.05	4	2.3	<0.2	
SK12-37	Rock	0.075	3	24	0.05	90	<0.001	<1	0.12	0.002	0.04	0.5	0.67	0.9	0.1	<0.05	<1	4.2	0.3	
SK12-38	Rock	0.125	8	3	1.04	35	0.010	2	1.67	0.095	0.11	<0.1	<0.01	2.0	<0.1	<0.05	7	<0.5	<0.2	
SK12-39	Rock	0.016	17	50	0.92	21	0.002	<1	0.95	0.008	0.03	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2	
SK12-40	Rock	0.088	8	45	1.47	294	0.006	<1	1.99	0.057	0.06	<0.1	0.03	12.9	<0.1	<0.05	7	<0.5	<0.2	
SK12-41	Rock	0.039	1	81	0.71	119	0.083	4	1.60	0.032	0.21	0.7	0.01	5.4	<0.1	0.12	6	8.3	<0.2	
SK12-42	Rock	0.039	4	87	2.04	712	0.086	<1	3.62	0.209	0.90	<0.1	<0.01	9.2	0.5	<0.05	9	1.8	<0.2	
SK12-43	Rock	0.092	7	75	1.99	298	0.046	<1	2.61	0.078	0.31	<0.1	0.01	9.3	0.3	<0.05	8	1.4	<0.2	
SK12-44	Rock	0.051	2	119	2.05	650	0.126	1	4.27	0.234	1.20	<0.1	<0.01	10.6	0.7	<0.05	10	<0.5	<0.2	
SK12-45	Rock	0.049	4	25	0.02	58	0.001	<1	0.26	0.003	0.09	<0.1	0.08	1.6	0.2	<0.05	<1	6.7	<0.2	
SK12-46	Rock	0.032	4	33	0.03	41	0.002	<1	0.25	0.002	0.07	<0.1	0.06	2.1	0.1	<0.05	<1	2.6	<0.2	
SK12-47	Rock	0.007	7	<1	0.01	104	<0.001	<1	0.23	0.007	0.18	0.1	0.10	0.4	<0.1	<0.05	<1	5.2	<0.2	
SK12-48	Rock	0.050	6	4	0.03	141	<0.001	<1	0.25	0.003	0.08	<0.1	0.10	1.2	<0.1	<0.05	<1	3.6	0.7	
SK12-49	Rock	0.143	11	6	0.09	48	0.002	<1	0.69	0.013	0.18	<0.1	0.76	4.3	<0.1	<0.05	2	<0.5	<0.2	
SK12-50	Rock	0.102	6	1	0.02	167	<0.001	<1	0.30	0.005	0.16	<0.1	0.11	0.4	<0.1	<0.05	<1	<0.5	<0.2	
SK12-51	Rock	0.111	8	1	0.17	234	0.003	<1	0.81	0.004	0.15	<0.1	0.16	2.6	2.3	<0.05	2	1.3	<0.2	
SK12-52	Rock	0.042	4	2	0.01	17	<0.001	<1	0.14	0.003	0.05	<0.1	0.14	0.4	0.1	<0.05	<1	1.7	<0.2	

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CERTIFICATE OF ANALYSIS

VAN12003956.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
SK12-53	Rock	0.69	2.6	530.6	2.4	65	0.6	4.1	21.7	429	12.06	2521	0.2	5.8	0.4	22	1.3	8.7	31.8	46	0.35
SK12-54	Rock	0.58	1.6	1442	5.1	40	0.6	17.8	16.7	103	11.05	>10000	0.1	32.8	<0.1	53	5.1	64.9	88.9	99	1.02
SK12-55	Rock	0.39	1.1	273.0	2.1	37	0.1	30.8	67.3	483	10.72	819.3	0.4	3.6	0.2	8	0.8	7.2	17.5	68	0.08
SK12-56	Rock	0.63	1.0	56.0	4.1	41	0.1	4.8	5.6	1239	2.05	40.7	<0.1	<0.5	0.7	11	0.8	3.1	1.5	10	0.18
SK12-57	Rock	0.65	3.6	106.7	3.2	96	0.2	7.9	7.4	5703	3.89	227.0	0.4	0.6	0.5	48	2.9	16.6	4.2	11	0.18
SK12-58	Rock	0.61	1.9	66.8	1.7	235	0.3	259.1	18.9	354	11.55	1181	0.3	17.8	0.5	11	9.3	11.8	0.3	26	0.05
SK12-59	Rock	0.72	0.9	34.8	2.6	249	<0.1	177.6	5.6	211	6.36	498.3	0.2	2.1	0.4	7	2.3	53.4	0.2	29	0.03
SK12-60	Rock	1.02	1.5	53.9	3.3	199	<0.1	198.0	15.5	299	5.79	267.7	0.2	<0.5	0.5	7	1.9	42.7	0.2	28	0.03
SK12-61	Rock	0.70	0.7	40.8	4.8	108	0.1	57.2	6.5	135	1.93	45.6	0.4	<0.5	0.6	7	0.7	11.0	0.1	56	0.01
SK12-62	Rock	0.80	2.2	58.7	3.4	230	0.3	341.5	41.3	5924	11.93	624.8	0.2	9.7	1.1	14	5.6	10.2	<0.1	41	0.03
SK12-63	Rock	0.62	1.0	29.3	3.7	100	<0.1	31.9	8.8	210	4.67	17.5	0.2	0.9	0.7	5	0.1	1.4	<0.1	28	0.04
SK12-64	Rock	1.16	3.6	38.4	3.1	31	0.1	34.5	2.2	106	2.03	46.6	0.2	3.1	0.5	7	0.2	5.3	<0.1	21	0.03



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CERTIFICATE OF ANALYSIS

VAN12003956.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	7AR
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.001	
SK12-53	Rock	0.162	5	5	0.40	84	0.002	<1	1.01	0.005	0.15	0.1	0.29	1.9	<0.1	<0.05	2	0.6	<0.2	
SK12-54	Rock	0.095	2	20	0.02	90	0.001	<1	0.13	0.005	0.02	<0.1	0.56	0.7	<0.1	<0.05	<1	1.1	0.4	
SK12-55	Rock	0.067	5	20	0.11	45	<0.001	<1	0.31	0.003	0.08	0.3	0.14	1.5	<0.1	<0.05	1	0.6	<0.2	
SK12-56	Rock	0.103	9	1	0.04	147	0.002	<1	0.39	0.006	0.31	<0.1	0.08	1.2	0.3	<0.05	<1	0.6	<0.2	
SK12-57	Rock	0.108	9	2	0.04	150	0.002	<1	0.42	0.006	0.29	0.1	0.07	1.0	0.2	<0.05	<1	<0.5	<0.2	
SK12-58	Rock	0.228	2	25	0.02	157	0.002	<1	0.31	0.011	0.06	0.3	0.46	3.7	<0.1	<0.05	2	<0.5	<0.2	
SK12-59	Rock	0.088	3	35	0.01	76	<0.001	<1	0.25	0.008	0.06	<0.1	0.70	5.5	<0.1	<0.05	1	0.7	<0.2	
SK12-60	Rock	0.078	2	29	0.01	75	0.001	<1	0.31	0.008	0.06	<0.1	0.09	3.8	<0.1	<0.05	1	1.2	<0.2	
SK12-61	Rock	0.016	5	37	0.01	35	<0.001	<1	0.26	0.002	0.07	<0.1	0.32	3.9	<0.1	<0.05	<1	<0.5	<0.2	
SK12-62	Rock	0.152	<1	16	0.02	1730	0.001	<1	0.46	0.012	0.10	<0.1	1.24	6.5	0.7	<0.05	1	2.2	<0.2	
SK12-63	Rock	0.043	8	2	0.03	70	<0.001	<1	0.48	0.004	0.08	<0.1	0.24	5.1	<0.1	<0.05	2	<0.5	<0.2	
SK12-64	Rock	0.035	5	22	0.01	31	<0.001	<1	0.27	0.006	0.07	<0.1	0.15	2.9	<0.1	<0.05	<1	1.2	<0.2	



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Report Date: September 07, 2012

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QUALITY CONTROL REPORT

VAN12003956.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
MK12-18	Rock	0.63	0.7	22.6	3.4	130	<0.1	30.8	12.3	1604	3.53	44.5	0.2	5.4	0.6	7	9.3	2.1	0.1	23	0.10
REP MK12-18	QC		0.9	23.0	3.6	135	0.1	31.0	12.6	1679	3.61	46.6	0.2	3.4	0.6	7	10.2	2.4	0.1	24	0.10
MK12-36	Rock	0.27	0.2	47.7	0.8	85	<0.1	71.3	28.4	754	3.73	1.4	<0.1	<0.5	0.4	148	0.4	0.1	<0.1	58	1.16
REP MK12-36	QC		0.3	43.7	0.7	76	<0.1	70.7	26.3	729	3.59	1.5	0.1	6.5	0.3	137	0.3	0.2	<0.1	54	1.10
MK12-53	Rock	0.48	0.5	67.7	3.4	74	0.1	2.6	2.0	250	6.20	164.7	0.2	<0.5	0.6	9	0.8	2.7	5.5	17	0.27
REP MK12-53	QC		0.5	70.2	3.6	76	<0.1	2.8	2.0	259	6.49	167.0	0.1	1.9	0.7	10	1.0	3.1	5.4	17	0.27
MK12-56	Rock	0.40	0.6	55.1	2.8	84	<0.1	40.6	15.0	2644	6.14	141.6	0.2	<0.5	0.3	36	0.7	6.9	2.1	49	17.32
REP MK12-56	QC		0.7	57.1	2.9	82	<0.1	43.5	16.8	2752	6.36	146.4	0.2	<0.5	0.2	37	0.5	7.4	2.1	51	18.03
SK12-27	Rock	0.82	14.9	68.8	9.6	356	0.2	162.8	44.2	509	7.04	68.4	1.2	97.8	0.6	4	2.3	9.4	0.5	22	0.02
REP SK12-27	QC		14.9	71.6	9.8	356	0.2	164.2	43.9	501	7.03	68.4	1.2	81.6	0.6	4	2.5	9.2	0.6	22	0.02
SK12-44	Rock	0.93	0.8	109.3	2.9	304	0.6	204.6	18.4	450	3.40	1.0	0.1	7.8	1.1	135	3.3	0.3	0.2	182	1.62
REP SK12-44	QC		1.0	108.6	2.8	300	0.6	206.4	18.6	459	3.44	0.8	0.2	6.2	1.1	132	3.1	0.3	0.2	185	1.63
SK12-53	Rock	0.69	2.6	530.6	2.4	65	0.6	4.1	21.7	429	12.06	2521	0.2	5.8	0.4	22	1.3	8.7	31.8	46	0.35
REP SK12-53	QC		2.9	531.4	2.5	69	0.6	4.8	23.0	409	12.13	2533	0.2	9.2	0.3	22	1.1	8.5	32.6	46	0.35
SK12-62	Rock	0.80	2.2	58.7	3.4	230	0.3	341.5	41.3	5924	11.93	624.8	0.2	9.7	1.1	14	5.6	10.2	<0.1	41	0.03
REP SK12-62	QC		2.3	59.3	3.4	229	0.3	335.0	41.3	5997	11.80	608.6	0.2	15.1	1.1	14	5.8	9.8	<0.1	40	0.02
Core Reject Duplicates																					
MK12-27	Rock	0.58	1.4	127.1	3.0	250	1.1	243.6	18.8	559	3.58	28.4	0.2	7.9	1.5	22	2.7	0.7	0.6	300	0.57
DUP MK12-27	QC	<0.01	1.3	101.8	3.1	230	0.9	228.7	18.2	516	3.36	25.3	0.2	8.1	1.4	24	3.0	0.6	0.5	277	0.57
MK12-61	Rock	0.63	14.1	94.3	8.0	410	0.2	160.5	4.5	68	11.98	121.5	0.9	7.0	1.7	15	3.9	14.2	0.1	62	0.04
DUP MK12-61	QC	<0.01	12.0	85.0	6.4	356	0.1	149.6	4.0	57	10.31	87.6	0.8	5.7	1.7	16	3.0	11.8	0.2	57	0.03
SK12-51	Rock	0.70	3.3	118.7	1.8	82	0.3	2.6	31.1	3588	8.80	135.1	0.1	3.7	0.5	20	0.6	6.8	2.2	18	0.10
DUP SK12-51	QC	<0.01	2.8	114.1	1.7	82	0.2	2.8	30.2	2515	10.10	171.8	0.1	2.0	0.6	17	0.5	9.3	2.5	19	0.12
Reference Materials																					
STD DS9	Standard		12.8	104.7	123.3	304	1.7	37.9	7.2	572	2.32	24.9	2.8	111.6	6.7	74	2.6	5.4	6.6	42	0.73
STD DS9	Standard		11.0	107.1	120.0	308	1.9	39.3	7.7	572	2.28	25.3	2.4	153.3	5.9	68	2.4	5.3	6.4	37	0.64
STD DS9	Standard		12.4	105.9	118.4	292	1.7	40.0	7.4	543	2.25	25.0	2.6	110.0	6.0	68	2.5	5.2	5.8	40	0.68
STD DS9	Standard		12.5	111.2	121.7	309	1.8	40.3	7.5	574	2.33	25.1	2.9	106.3	6.5	74	2.4	5.6	6.0	38	0.71



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Project: HOTTIE
Report Date: September 07, 2012

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QUALITY CONTROL REPORT

VAN12003956.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	7AR
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.001
Pulp Duplicates																			
MK12-18	Rock	0.055	9	12	0.04	149	0.001	<1	0.46	0.003	0.12	<0.1	0.05	2.8	<0.1	<0.05	<1	<0.5	<0.2
REP MK12-18	QC	0.055	9	12	0.05	159	0.001	1	0.49	0.003	0.12	<0.1	0.05	3.2	<0.1	<0.05	1	<0.5	<0.2
MK12-36	Rock	0.140	9	106	2.62	24	0.209	3	2.83	0.121	0.03	<0.1	0.01	6.1	<0.1	<0.05	8	<0.5	<0.2
REP MK12-36	QC	0.141	9	100	2.47	22	0.197	2	2.68	0.107	0.03	<0.1	<0.01	6.2	<0.1	<0.05	7	<0.5	<0.2
MK12-53	Rock	0.171	9	2	0.04	58	0.002	1	0.72	0.006	0.22	<0.1	0.03	1.5	<0.1	<0.05	1	<0.5	<0.2
REP MK12-53	QC	0.179	10	2	0.05	60	0.002	2	0.75	0.006	0.23	<0.1	0.04	1.6	<0.1	<0.05	1	<0.5	<0.2
MK12-56	Rock	0.073	7	13	0.19	179	0.003	2	0.42	0.002	0.14	0.5	0.17	5.1	<0.1	<0.05	1	<0.5	<0.2
REP MK12-56	QC	0.074	7	14	0.19	182	0.004	2	0.43	0.002	0.14	0.6	0.21	5.1	<0.1	<0.05	1	<0.5	<0.2
SK12-27	Rock	0.070	3	9	0.06	47	<0.001	<1	0.32	0.004	0.04	<0.1	0.21	4.6	<0.1	<0.05	1	1.1	<0.2
REP SK12-27	QC	0.070	4	9	0.06	46	0.001	<1	0.31	0.004	0.04	<0.1	0.21	4.8	<0.1	<0.05	1	0.9	<0.2
SK12-44	Rock	0.051	2	119	2.05	650	0.126	1	4.27	0.234	1.20	<0.1	<0.01	10.6	0.7	<0.05	10	<0.5	<0.2
REP SK12-44	QC	0.052	2	121	2.06	649	0.131	<1	4.31	0.238	1.21	<0.1	<0.01	11.3	0.7	<0.05	10	1.6	<0.2
SK12-53	Rock	0.162	5	5	0.40	84	0.002	<1	1.01	0.005	0.15	0.1	0.29	1.9	<0.1	<0.05	2	0.6	<0.2
REP SK12-53	QC	0.164	5	5	0.40	88	0.002	<1	1.05	0.005	0.15	0.2	0.30	2.2	<0.1	<0.05	3	1.1	<0.2
SK12-62	Rock	0.152	<1	16	0.02	1730	0.001	<1	0.46	0.012	0.10	<0.1	1.24	6.5	0.7	<0.05	1	2.2	<0.2
REP SK12-62	QC	0.149	<1	16	0.01	1717	0.001	<1	0.46	0.012	0.10	<0.1	1.19	6.3	0.7	<0.05	2	1.1	<0.2
Core Reject Duplicates																			
MK12-27	Rock	0.045	8	171	3.40	311	0.052	<1	3.21	0.071	0.38	<0.1	0.01	15.1	<0.1	<0.05	12	1.1	<0.2
DUP MK12-27	QC	0.039	8	156	3.20	285	0.047	<1	3.01	0.074	0.34	<0.1	<0.01	14.4	<0.1	<0.05	11	<0.5	<0.2
MK12-61	Rock	0.097	5	31	0.04	73	0.001	1	0.40	0.010	0.19	<0.1	0.61	11.1	<0.1	<0.05	1	2.7	<0.2
DUP MK12-61	QC	0.081	4	31	0.03	65	0.001	<1	0.40	0.008	0.17	<0.1	0.54	9.2	<0.1	<0.05	1	2.7	<0.2
SK12-51	Rock	0.111	8	1	0.17	234	0.003	<1	0.81	0.004	0.15	<0.1	0.16	2.6	2.3	<0.05	2	1.3	<0.2
DUP SK12-51	QC	0.120	8	<1	0.18	167	0.002	<1	0.72	0.004	0.15	<0.1	0.19	3.0	1.4	<0.05	2	1.5	<0.2
Reference Materials																			
STD DS9	Standard	0.079	14	119	0.61	304	0.120	2	0.94	0.085	0.39	3.1	0.22	2.5	5.1	0.17	5	5.2	5.1
STD DS9	Standard	0.082	11	116	0.60	279	0.101	3	0.93	0.078	0.38	3.1	0.21	2.5	5.2	0.16	5	4.0	5.0
STD DS9	Standard	0.078	11	114	0.59	288	0.107	2	0.90	0.083	0.38	2.7	0.20	2.2	5.4	0.17	4	6.1	4.4
STD DS9	Standard	0.082	13	117	0.63	293	0.112	3	0.98	0.085	0.41	3.0	0.22	2.4	5.2	0.16	5	5.0	5.2



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 Report Date: September 07, 2012

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QUALITY CONTROL REPORT

VAN12003956.1

		WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD DS9	Standard		11.6	102.2	117.1	288	1.7	37.3	7.1	533	2.25	24.9	2.5	106.8	6.2	81	2.3	5.7	7.6	37	0.69
STD GC-7	Standard																				
STD GC-7	Standard																				
STD GC-7 Expected																					
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank																				
BLK	Blank		<0.1	0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	1.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	<0.1	1.9	2.3	47	<0.1	3.7	4.0	586	1.84	<0.5	1.1	5.6	4.3	53	<0.1	<0.1	<0.1	31	0.39
G1	Prep Blank	<0.01	<0.1	2.1	2.2	50	<0.1	4.3	4.2	588	1.85	<0.5	1.1	2.0	4.3	52	<0.1	<0.1	<0.1	31	0.36



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Suite 920 - 1055 W. Hastings St.
Vancouver BC V6E 2E9 Canada

Project: HOTTIE
Report Date: September 07, 2012

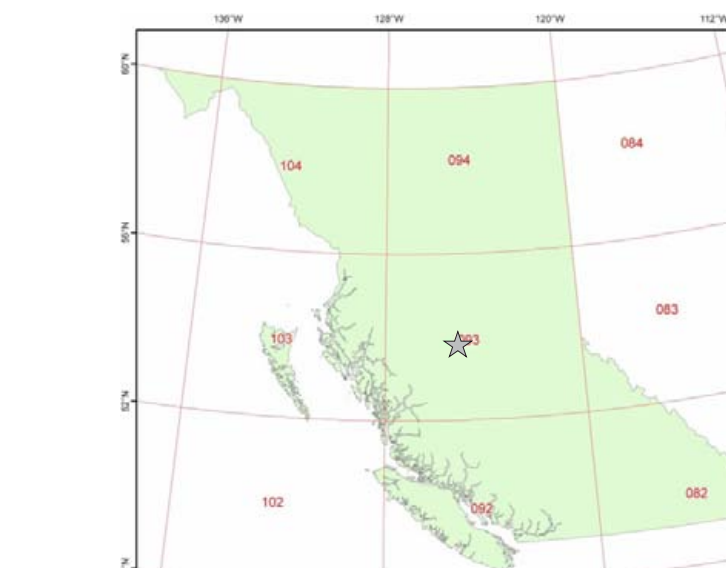
Page: 2 of 2

Part: 2 of 2

QUALITY CONTROL REPORT

VAN12003956.1

		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	7AR		
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.001	
STD DS9	Standard	0.078	12	111	0.60	278	0.098	<1	0.93	0.078	0.38	2.9	0.20	2.1	5.0	0.15	4	5.0	4.8		
STD GC-7	Standard																				0.577
STD GC-7	Standard																				0.556
STD GC-7 Expected																					0.555
STD DS9 Expected		0.0819	13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	0.002	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																				<0.001
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
Prep Wash																					
G1	Prep Blank	0.081	6	6	0.57	228	0.100	2	1.02	0.100	0.49	<0.1	0.02	2.5	0.3	<0.05	5	<0.5	<0.2		
G1	Prep Blank	0.078	6	7	0.56	235	0.098	<1	0.97	0.094	0.51	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2		



Hottie Property

**Nazko Area
Central British Columbia**

NTS 093 F088/089



Legend

- 2012 Rock Samples
Au In ppb**
- >250
 - 100-249.9
 - 25-99.9
 - 10-24.9
 - <0.5-9.9

