SOIL SAMPLING AND DIAMOND DRILLING REPORT

ON THE

ATHABASCA PROPERTY,

NELSON, BC

NORTHEAST/CENTRAL REGION, BC

MAPSHEET: 082F044

for

HELLIX VENTURES INC
125A Denman Street,
Vancouver, BC
V6G 2M6

By

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Consulting Geologist, Kamloops BC
March 1, 2013

Tenure Numbers: 233489, 233490, 233491, 233492, 233493,
233498, 233499,233437, 604255, 604396,
1011695, 1011703, 1011718, 1012233

Claim Owner: Mike Hudock, Nelson, BC

Coordinates: UTM 5748500 N 477600E
LAT/LONG 49.46 N 117.31 W

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1.0) INTRODUCTION

The author of this report was contracted by Hellix Ventures Inc (Hellix) to undertake a soil and rock sampling program on its Athabasca Property, located near to Nelson in Southeast British Columbia. The property hosts the historic Athabasca Mine which produced a reported 622,069 grams of gold from approximately 19,958 tonnes of ore.

The work program was undertaken on the property from May to December, 2012. The scope of this program was to expand upon soil geochemical results from previous year's surveys, and to test for continuation of the main vein at the Athabasca mine through diamond drilling.

Previous work included magnetometer surveying and soil sampling. Some surface and underground rock sampling had also been completed adjacent to and within the old mine workings.

2.0) PROPERTY DESCRIPTION AND LOCATION

The property is located near to the city of Nelson in the West Kootenay region of south-eastern British Columbia. The claims are centred on UTM Zone 11 coordinates 5748500N and 477600E (see Figure 1). The claims are covered by map sheet 082F044.

The property consists of a block of 10 reverted crown grants and 6 mineral claims (see Table 1) within the Nelson Mining Division, totalling 347 hectares (see Figure 2).

Table 1 – Mineral Claims

Tenure Number	Size (ha)	Old Lot # (Reverted)	Claim Name	Good To Date
233489	25	386	Long Tom	Feb 28, 2022
233490	25	392	Good Enough	Feb 28, 2022
"		2812	Good Hope	Feb 28, 2022
"		1573	Ruby Fr	Feb 28, 2022
233491	25	1570	Algoma	Feb 28, 2022
"		1574	Triangle Fr	Feb 28, 2022
233492	25	1569	Athabasca	Feb 28, 2022
"		1571	Alberta	Feb 28, 2022
233493	25	1572	Manitoba	Feb 28, 2022
"		4808	Hanky Panky	Feb 28, 2022
233498	25	Na	Ant Fr	Feb 28, 2022
233499	25	Na	Mill Fr	Feb 28, 2022
233437	25	Na	Old Hat Fr	Feb 28, 2022
604255	21	Na	At-1	May 09, 2022
604396	21	Na	At-2	May 12, 2022
1011695	21	Na	AT 3	Feb 28, 2022
1011703	42	Na	AT 4	Feb 28, 2022
1011718	21	Na	AT 4	Feb 28, 2022
1012233	21	Na	AT 5	Feb 28, 2022
Total	347 Ha			

Figure 1 - Property Location

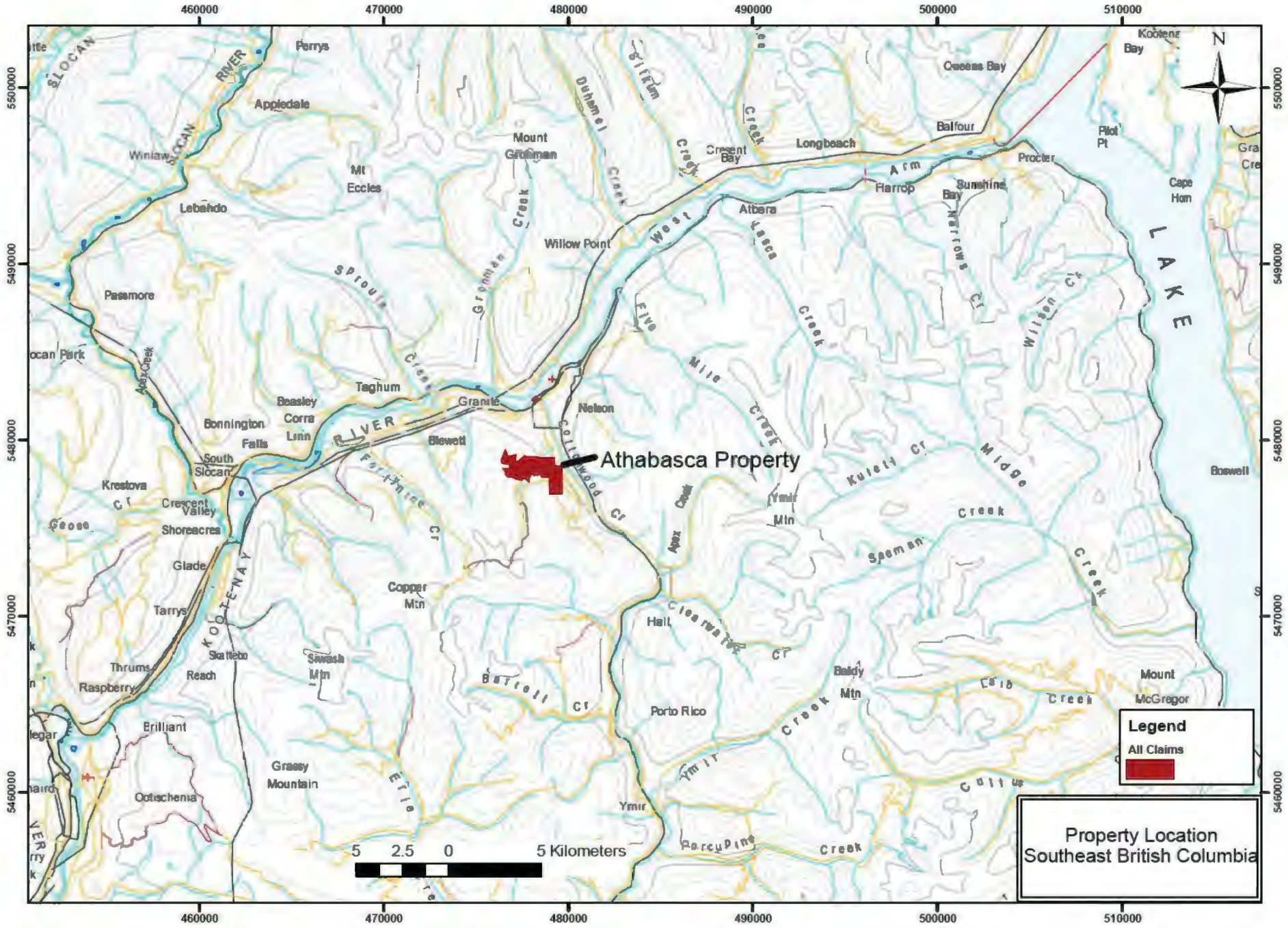
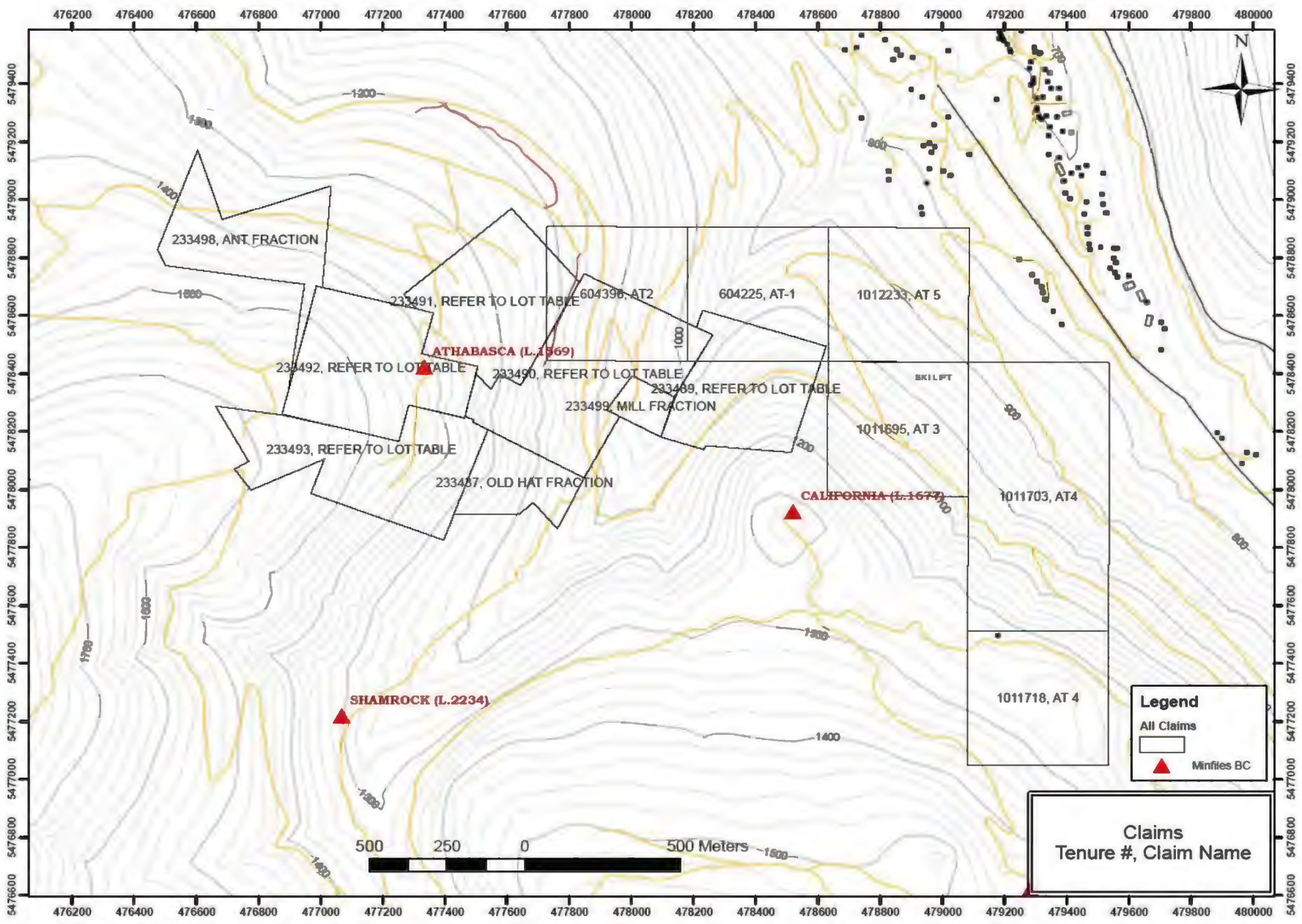


Figure 2 - Claim Map



The Rossland Group is in the southern Omineca Crystalline Belt, an uplifted zone of variably metamorphosed and deformed Proterozoic to Tertiary rocks that straddles the boundary between accreted terranes and ancestral North America. The belt includes a series of structural culminations, typically cored by Paleoproterozoic crystalline rocks, and flanked in the intervening depressions by rocks similar to those in the Foreland Belt to the east. These rocks are structurally overlain by accreted rocks of the Slide Mountain and Quesnel terranes.

The Omineca Crystalline Belt comprises an imbricated succession of thrust sheets that were transported eastward in Mesozoic time. This tectonism was accompanied by intrusion of granitic bodies and localization of a variety of structurally controlled vein deposits. In early Tertiary time, regional extension resulted in local uplift of core complexes as cover rocks were displaced along low angle normal faults. This extension was associated with widespread mafic volcanism, intrusion of alkalic rocks and, locally, vein and shear-hosted mineralization.

The Rossland Group is traditionally regarded as the most eastern belt of volcanic rocks within Quesnellia, a terrane that comprises dominantly arc volcanics and associated sediments that were accreted to North America in Middle Jurassic time. These rocks tectonically overlie pericratonic rocks of the Kootenay Terrane or miogeoclinal Proterozoic to lower Paleozoic rocks that were deposited on the western ancestral margin of North America. The tectonic boundary between Quesnellia and pericratonic or cratonic rocks is locally marked by mafic volcanic rocks and associated ultramafics of the Slide Mountain Terrane, interpreted to record deposition in a marginal basin or back-arc setting that separated Quesnellia from North America. Overlap assemblages, rocks deposited after collision of accreted rocks with North America, include (in the Rossland-Nelson area) the Cretaceous Sophie Mountain Formation and Eocene Marron Formation.

6.1 Elise Formation

A complete section of the Elise Formation is exposed in the east limb of the Hall Creek syncline along Highway 6 south of Nelson. It has been subdivided into a lower and upper division. The lower Elise lies with apparent conformity on sedimentary rocks of the Ymir Group; a few argillite beds persist through the lower part of the lower Elise. It is a sequence of dominantly mafic flows and flow breccias, minor lahars and tuffs up to one kilometre thick.

A coarse grained augite porphyry flow breccia is the dominant lithology of the lower Elise. Clasts and matrix are essentially augite porphyry with euhedral to subhedral augite or augite pseudomorphs up to one centimetre in diameter in a finer grained matrix of secondary plagioclase, biotite, chlorite, epidote and carbonate. Massive augite porphyry flows, with little evidence of brecciation, are not common.
The upper Elise in the Highway 6 section is a sequence of mafic to intermediate flows, tuffs and minor epiclastic deposits up to 2,500 metres thick. A number of cyclical sequences of pyroclastic rocks that typically grade upward from lapilli tuff to crystal tuff or fine tuff are common. Augite porphyry flows and flow breccias are a minor constituent.

The dominant lithology of the upper Elise in the Highway 6 section is a plagioclase-augite lapilli tuff of andesitic to shoshonitic composition. Clasts are generally darker than their matrix due to the preferential alteration of the fine-grained matrix to calcite, epidote and secondary plagioclase.
Crystal tuffs are commonly a lateral or vertical facies of the lapilli tuffs and are similar in composition. They are characterized by up to 20 percent plagioclase and typically only a few percent augite. The

crystal tuffs are generally massive; only rarely is layering noted. However, a penetrative foliation, conspicuous in most outcrops, may mask many primary features.

Fine mafic tuff occurs as dark green, fine-grained layers commonly associated with augite porphyry units. Several percent broken, commonly sausseritized plagioclase phenocrysts, less than one millimetre in diameter, and rare quartz crystals are the only primary textures preserved in the tuff. A penetrative foliation is defined by aligned biotite.

6.2 Intrusions

The Rossland group rocks are intruded by Jurassic Nelson batholith granitic rocks and Silver King feldspar porphyritic diorite. In the Athabasca mine area both of these intrusives may contain megacrystic feldspar crystals of 1 to 5cm size. Later Tertiary age intrusions may be present as middle Eocene Coryell syenites and mafic to felsic dykes of Paleocene to Eocene age

The Silver King intrusions have been dated as Aalenian to Toarcian and are interpreted to be collisional granitoids. Many are associated with copper, gold and silver mineralization.
The main Silver King intrusive body can be traced southeast from Giveout Creek in the vicinity of the Athabasca Property, to within one kilometre south of Nelson. Several smaller lenses border this intrusion and others occur on the western slopes of Mount Elise. Outcrops of Silver King intrusions are typically cream-coloured and form resistant ridges. Contacts with Rossland Group rocks are either sharp and discordant or intensely sheared. The Silver King pluton is sheared along its margins. Commonly, smaller lenses form sericite phyllites that resemble, and have been mapped as, foliated felsic volcanic rocks. These contact relationships and the foliated to massive nature suggest that the Silver King intrusions are a pre to synkinematic suite.

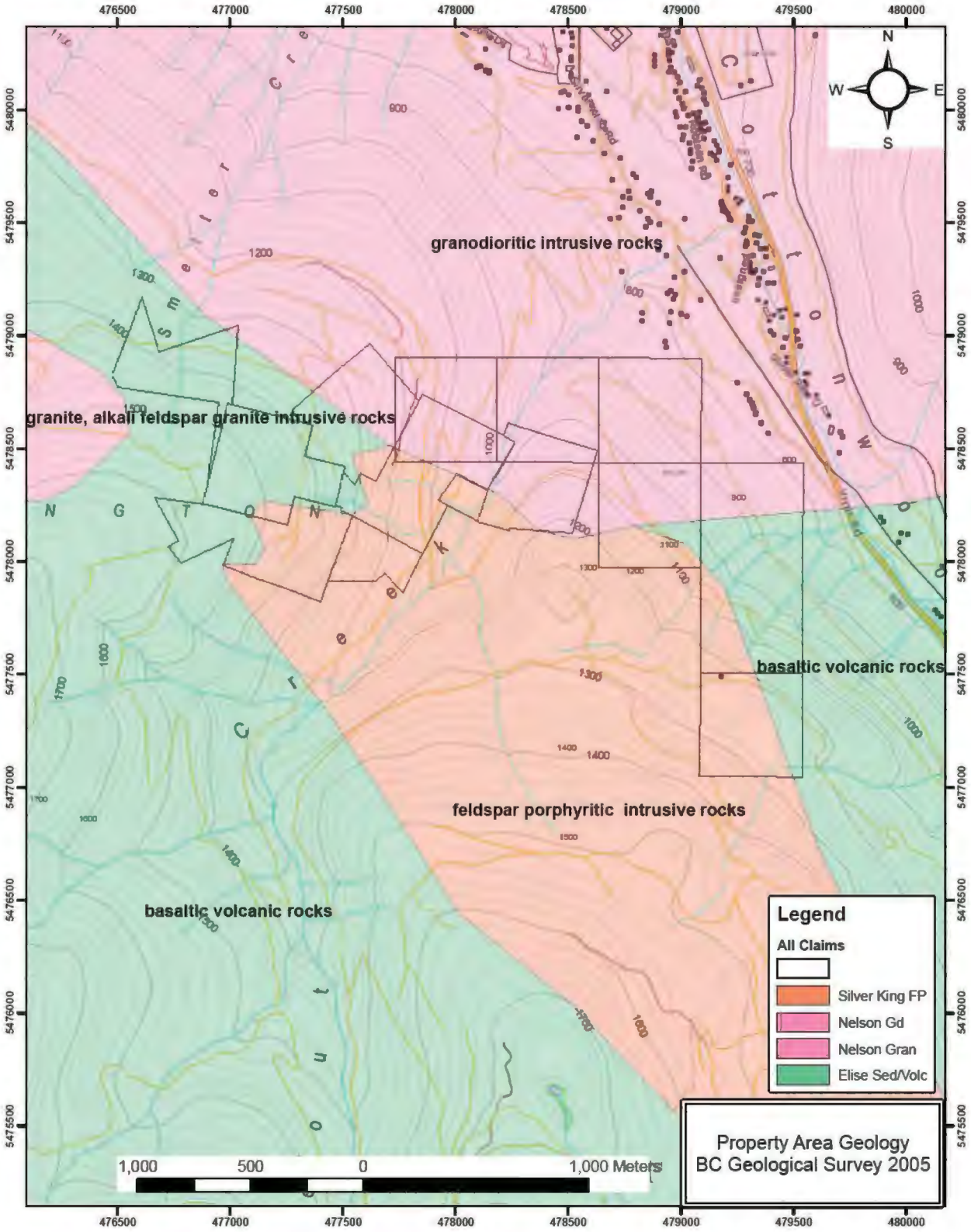
6.3 Athabasca Vein Minfile 082FSW168

The Athabasca vein strikes at 045 degrees with a 30 to 50 degree northwest dip. The vein is hosted within granodiorite and tends to flatten as it traverses the schistose volcanics to the south.

The vein comprises quartz gangue mineralized with pyrite, galena, sphalerite and in places, free gold. The gold occurs as 80 per cent free gold and 20 per cent is associated with sphalerite. The vein is a few centimetres to about 1.5 metres wide, averaging about 0.3 metres.

The Athabasca mine workings were developed where the vein crosses the granodiorite-volcanic fault contact. Pervasive shearing and faulting have offset and displaced portions of the vein. Scheelite occurs near the lithologic contact.

Figure 3 - Geology Map (from BCGS 2005)



6.0) EXPLORATION CONDUCTED IN 2012

In 2012 Hellix continued soil sampling on the Athabasca property, expanding upon work completed in previous programs, including results summarized by previous operators of the property in various assessment and other historic reports. This previous work included magnetometer surveying and soil sampling. In 2012, Hellix obtained a total of 122 soil samples from the property.

In 2012, Hellix conducted a diamond drilling program on the property, with the first four holes designed to test for the extension of the main vein that was historically worked within the Athabasca mine. Three short drill holes were also completed to test a vein exposed along a road cut just above the main adit of the mine. A total of 478.07 metres in 7 diamond drill holes were completed on the property. Table 2 summarizes drill hole location, orientation and depths.

Figure 4 shows the mineral tenures with the areas of work located.

Table 2 – Drill Hole Collar Summary

Hole Id	East[1]	North[1]	Azimuth	Dip	Depth (m)
12ATH-01	477225	5478454	330	-75	107.59
12ATH-02	477191	5478459	330	-85	90.83
12ATH-03	477108	5478392	340	-85	121.31
12ATH-04	477125	5478414	330	-90	111.25
12ATH-05	477312	5478443	355	90	14.17
12ATH-06	477312	5478443	355	60	14.02
12ATH-07	477312	5478443	355	50	18.9

[1] UTM Nad 83 Zone 11 Coordinates

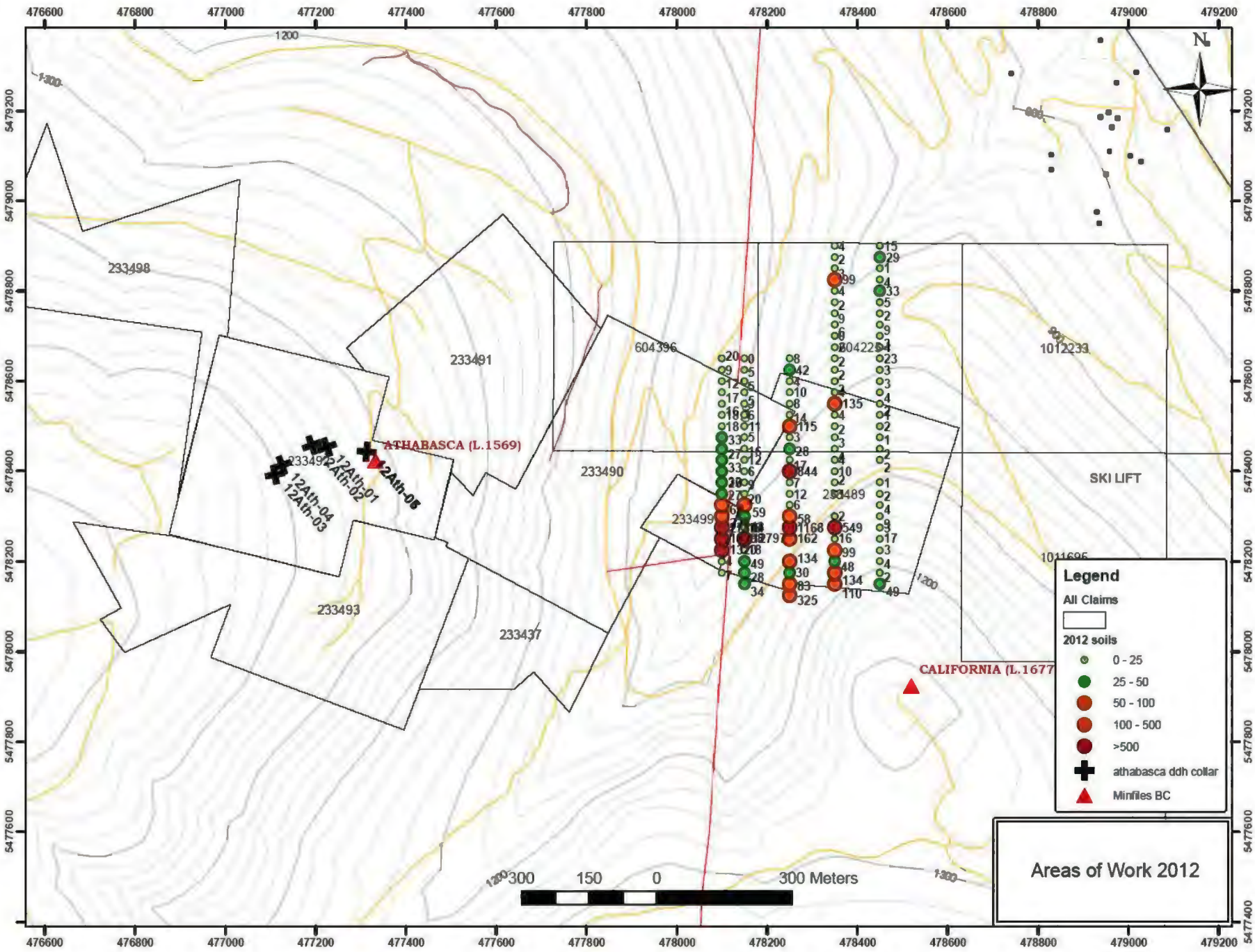
7.0) SAMPLING METHOD AND APPROACH

8.1 Sample Collection

A total of seven diamond drill holes were completed on the property in 2012. Lucky Drilling Ltd based in Salmo, BC, was contracted to complete diamond drilling using a skid mounted Discovery-1 diamond drill capable of drilling BTW size core to a depth of 400 metres.

Core obtained during the drilling program was logged and sampled at a facility located in Salmo BC. Core sampling was done by a standard manual core splitter. All sample locations were clearly marked on the core boxes, and sample numbers with corresponding intervals were noted. Samples were placed into plastic sample bags labelled with the individual sample numbers. The remaining sampled and logged drill core was retained in the original boxes that were then stacked in racks located at a safe facility in Salmo. Samples were selected based upon visual mineralization or the presence of significant veining. A total of 115 core samples were sent to the lab for analysis.

Figure 4 - Areas of Work Completed in 2012



Soil samples were obtained along surveyed lines at predetermined intervals. Samples were collected from the 'B' soil horizon by pick and shovel at average 30 to 40 centimetre depths. Previous work had indicated several zones of elevated gold in soil, in close proximity of the historic mine workings, and to the eastern portion of the claim holdings. The five lines completed in 2012 were designed to infill and expand upon the eastern portion of the previous sample coverage. Line spacing was 50 and 100 metres.

8.2 Sample Preparation, Analysis and Security

Rock and core samples were shipped to Acme Laboratories in Vancouver, BC via Overland West Trucking. The assay laboratory catalogues all samples and assures a complete chain of custody of each sample through the analytical process.

Samples were analyzed for 36 elements using Acme's Group 1DX2 methodology. Details of the 1DX2 aqua regia geochemical analysis are provided in the following page. The lab reports that solubility of some elements will be limited depending on mineral species present. Refractory and graphitic samples can limit gold solubility.

Core and soil samples were handled by consultants and contractors working for Hellix. Samples were placed into shipping bags enclosed with zap straps. All samples were placed onto pallets at the sampling facility where they were picked up by the trucking company, and taken directly to the Vancouver laboratory. All remaining drill core is currently stored in racks in a secure facility located in Salmo, BC. Coordinates of the storage are UTM Nad83 480880E/5451515N.

Table 3 – Acme Laboratory, Group 1DX Specifications

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.

8.0) RESULTS

9.1 Soil Sampling Results

Soil sample results are presented on Figures 5 and 6. The highest gold value obtained from the 2012 soil sampling was 27,824.4 parts per billion (ppb). Several samples returned values over 10,000 ppb gold. Combined with the results of the 2011 sampling, these high gold values form a cluster of elevated gold in soil near to the south margin of the claim group (Figure 6 pink polygon), an area in close proximity to the Giveout Creek road as well as proximal to the location of the historic conveyor tram line that once carried ore down from the local mines. It is suspected that some of these elevated values may be directly caused by material dropping from the tram buckets and landing on top of the ground in the area of the current grid. However, the east to west trend of the elevated gold values does not directly reflect the north to south orientation of the main part of the historic tram line, so it is suspected that some of the elevated gold in soil values may be reflecting a bedrock source. A bedrock source would be expected to be present upslope from the location of the elevated gold in soil sample locations, due to downslope solifluction from the source. Prospecting of the upslope regions is recommended.

9.2 Diamond Drilling Results

Table 6 provides a summary of the drilling results for gold from the 2012 Athabasca drilling program. Figures 7 through 10 provide a plan and sections through drill holes with geology and assay results (gold and silver) posted.

Table 4 – Significant Gold Intercepts From Diamond Drilling, Athabasca 2012

Hole ID	From	To	Length[(1)] (m)	Au[(2)] ppb	Au [(3)] gpt
12ATH-04	60.30	61.60	1.30	2579.4	3.47
12ATH-05	11.13	14.17	3.04	277.3	na
12ATH-07	12.80	13.30	0.50	141.7	na
12ATH-07	15.65	16.55	0.90	826.4	0.80

[(1)] True width not calculated and may be less than length.
[(2)] ACME Labs 1DX2 process, 15 gram ICP-ES.
[(3)] ACME Metallics Assay

The highest gold value returned from the 2012 drilling program was 3.47 grams per tonne (gpt) over 1.30 metres (60.3 to 61.6 metres depth) in drill hole 12ATH-04. This intercept included 50 percent quartz veining with pyrite, hosted in granitic rock. Possible nugget effect in this sample is indicated by the 35% increase in the gold value from the ICP methodology to the metallics fire assay. Coarser gold may have been screened from the analysis in the ICP and would be captured in the metallics assay. Holes 12ATH-01 to 12ATH-03 failed to intercept the quartz veining.

The gold intercept in drill hole 12Ath-04 is higher in elevation than what would be expected by extension of the main vein, as located underground in the Athabasca mine. The mined vein beneath hole 12ATh-04 is estimated to be at elevation 1403 above sea level (asl), whereas the gold-bearing vein intercept in the drill hole is estimated at 1430 metres asl. It is likely that this vein is not associated with the main vein system and is a separate, possibly parallel, vein.

Figure 5 - 2012 Soil Results, Gold

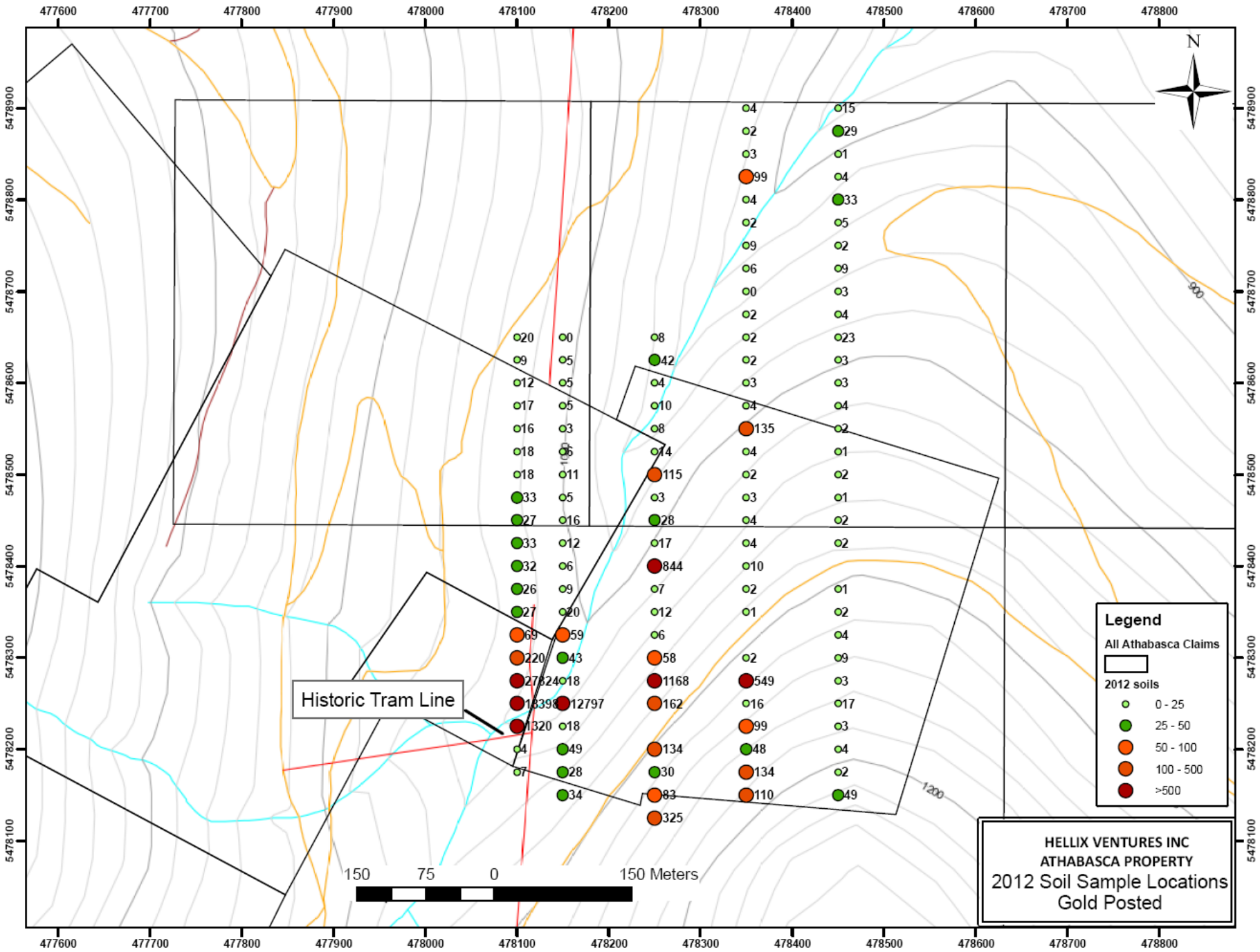
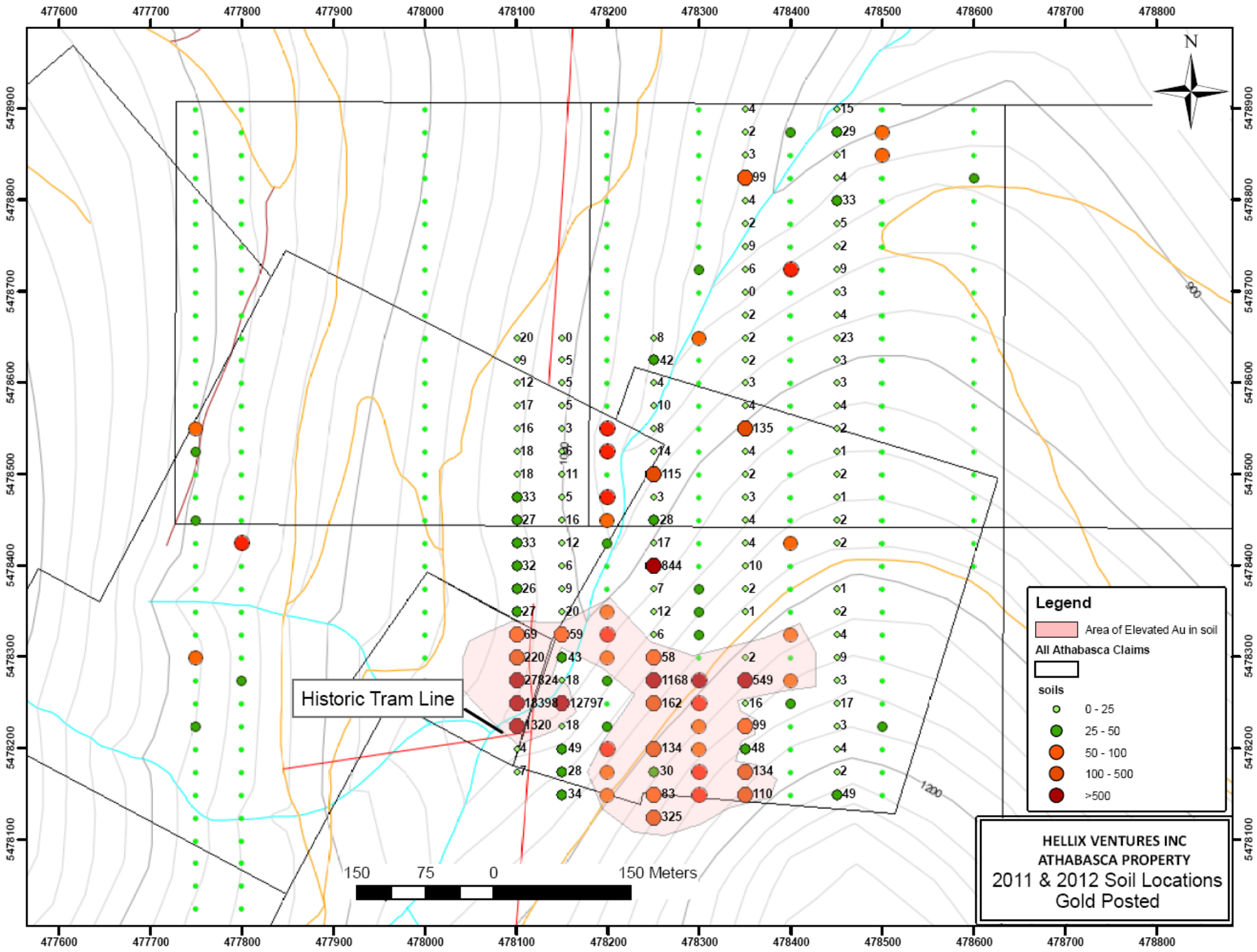


Figure 6 - Gold in Soil, East Claims, With Area of Elevated Results



Drill holes 12Ath-05 and 12Ath-07 returned elevated gold values from the down-dip extension of a quartz vein exposed at surface. The vein is approximately 30cm wide where exposed at surface, and has been shown to carry values of 82.11 gpt gold from previous sampling (sample 03AJ04 - Sultan Minerals 2003). A drill pad was constructed within 15 metres of the surface exposure and a fan of holes drilled to intercept the vein. The results indicate that the vein system is brecciated and is 50 to 90 centimetres wide. Gold values are inconsistent, with the 2012 drilling returning a highest value of 826.4 parts per billion (ppb) (0.826 grams per tonne). This further indicates the highly variable nature of the veins in this area, with pinch and swell geometry, and gold content that reflects nugget effect.

The highly variable geometry of the quartz veining, combined with nugget effect leading to variable gold content within the veins, makes drilling of the target challenging. Further work may require direct sampling of the vein by accessing the underground workings. During the fall 2012 program, Hellix opened the number 2 adit portal into the mine and completed a brief inspection of the workings at that location. Caving was evident within 50 metres of the portal. Further work will be required to gain safe access to the vein for sampling.

Figure 7 - Drill Hole Locations with Topography (Translucent)

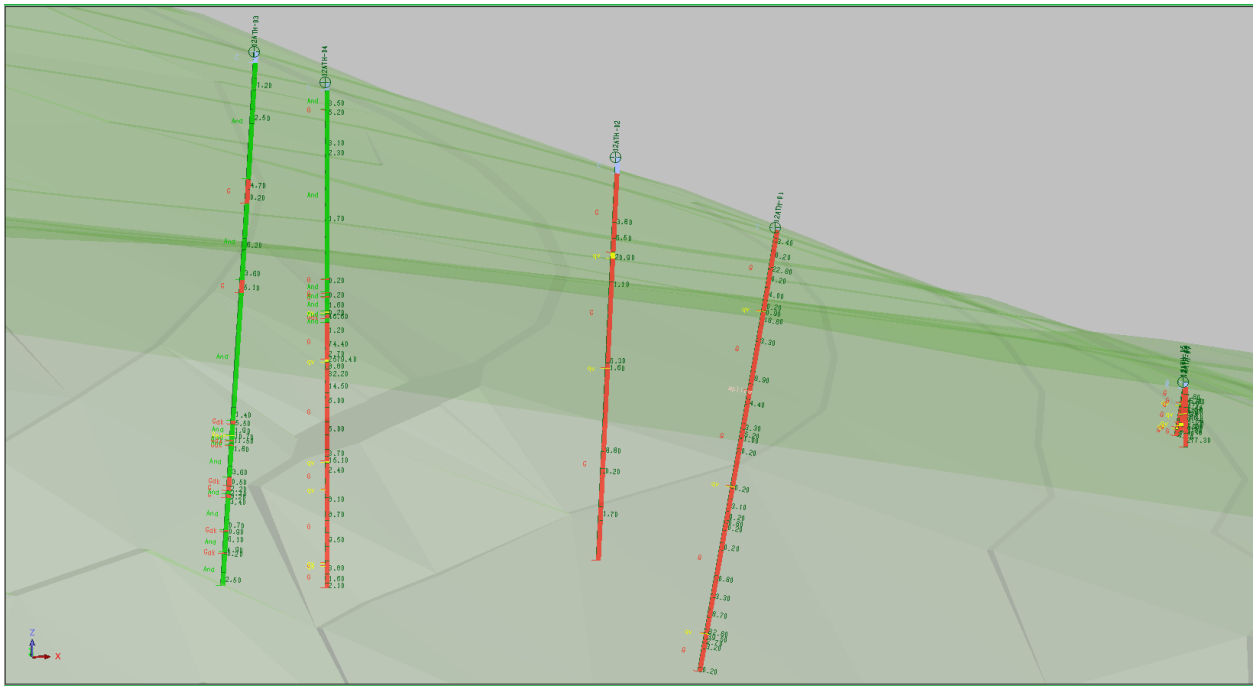
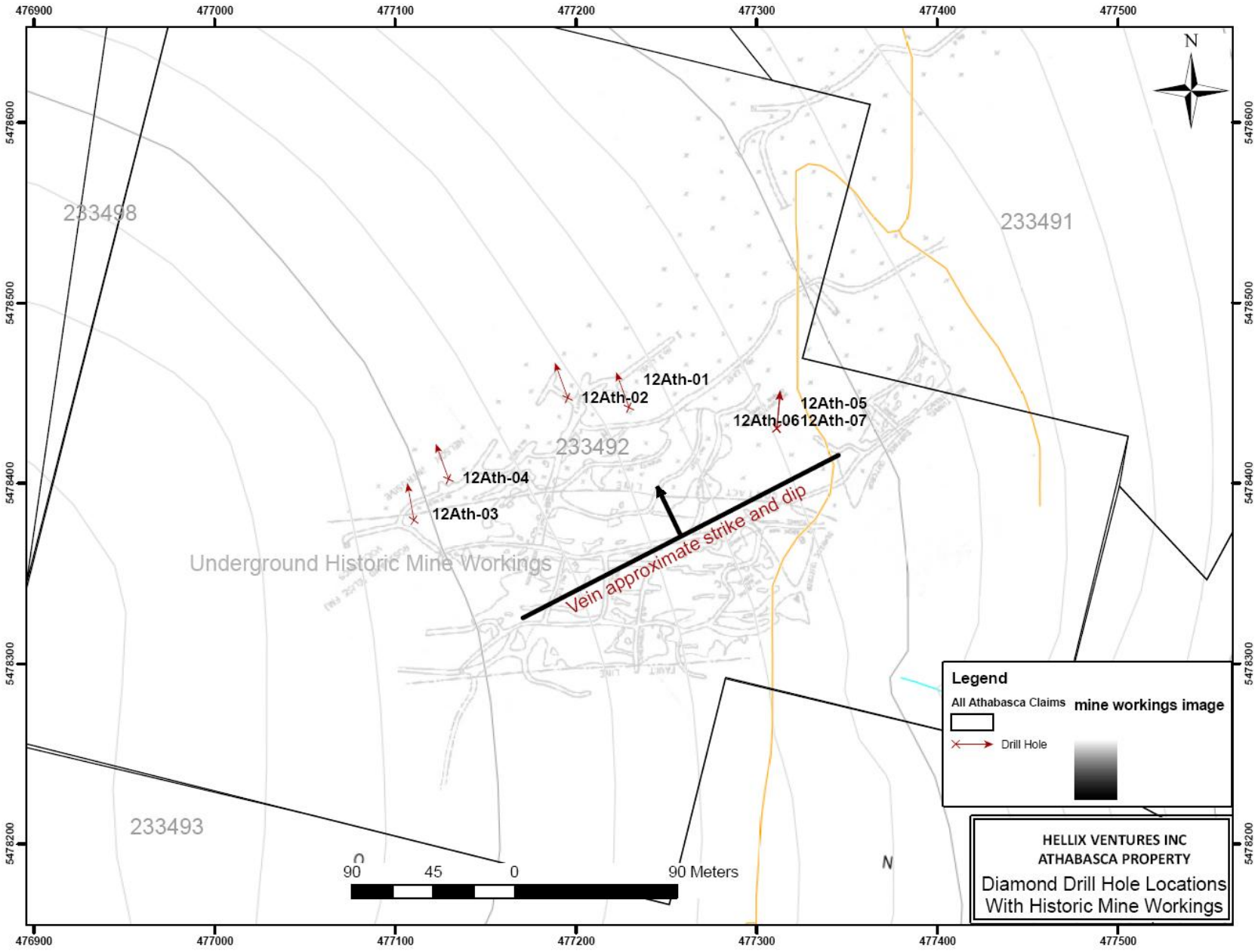
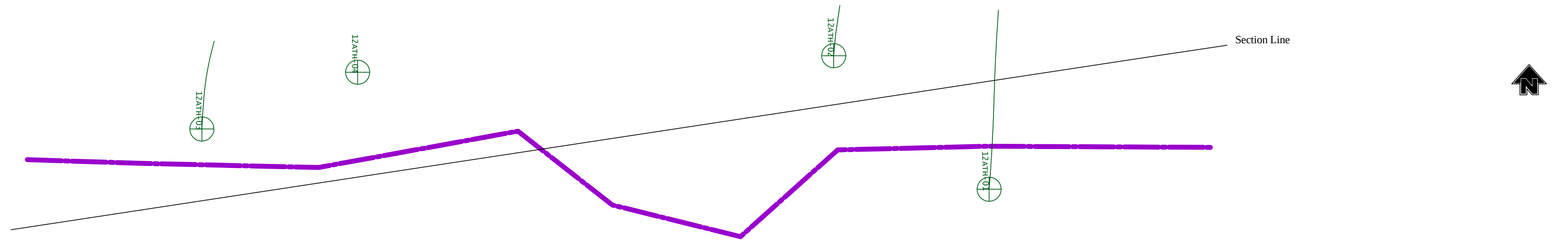


Figure 8 - Diamond Drill Hole Locations and Historic Mine Workings



PLAN



SECTION

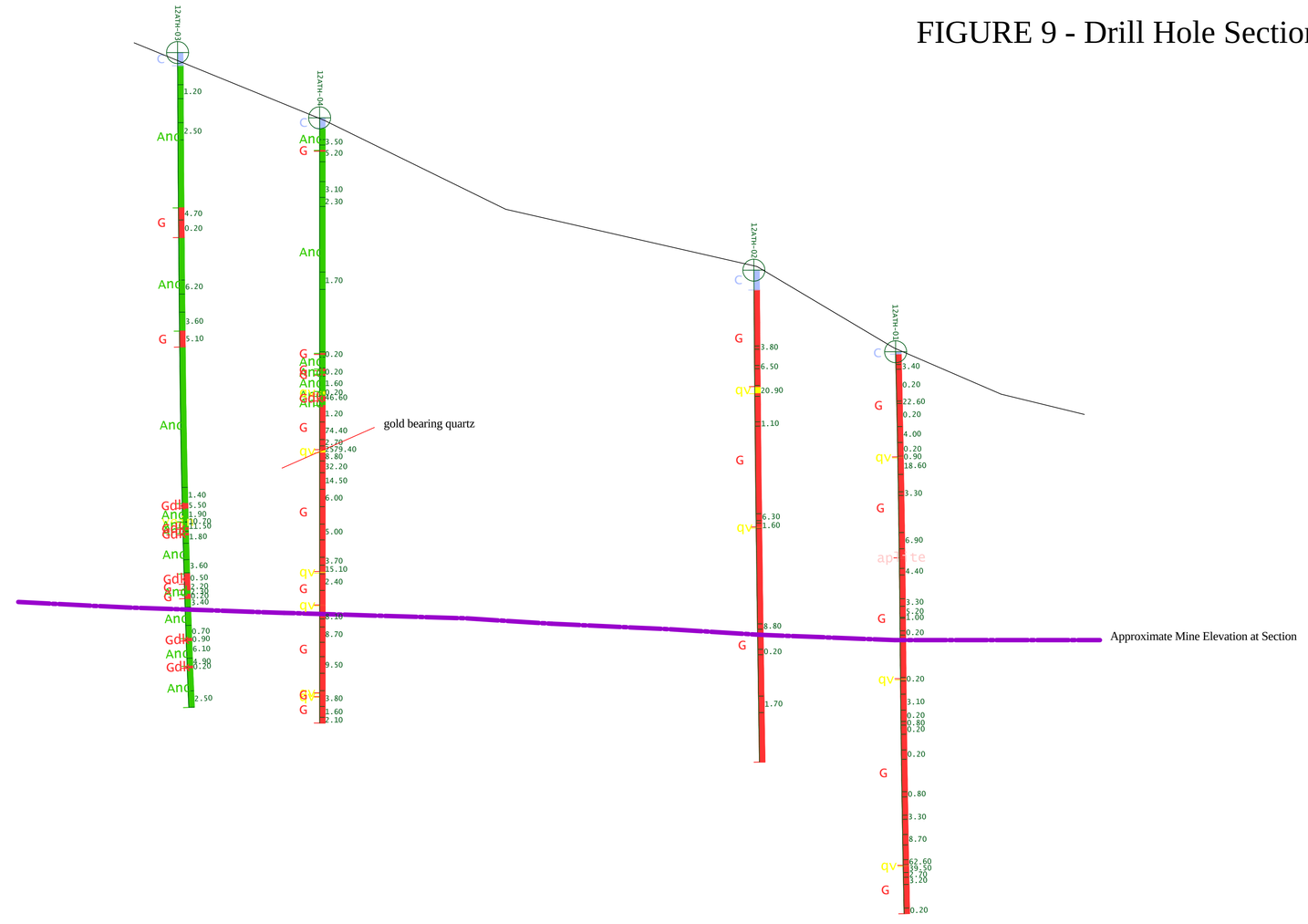


FIGURE 9 - Drill Hole Section, Holes 12ATH-01 to -04

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qv
Gdk

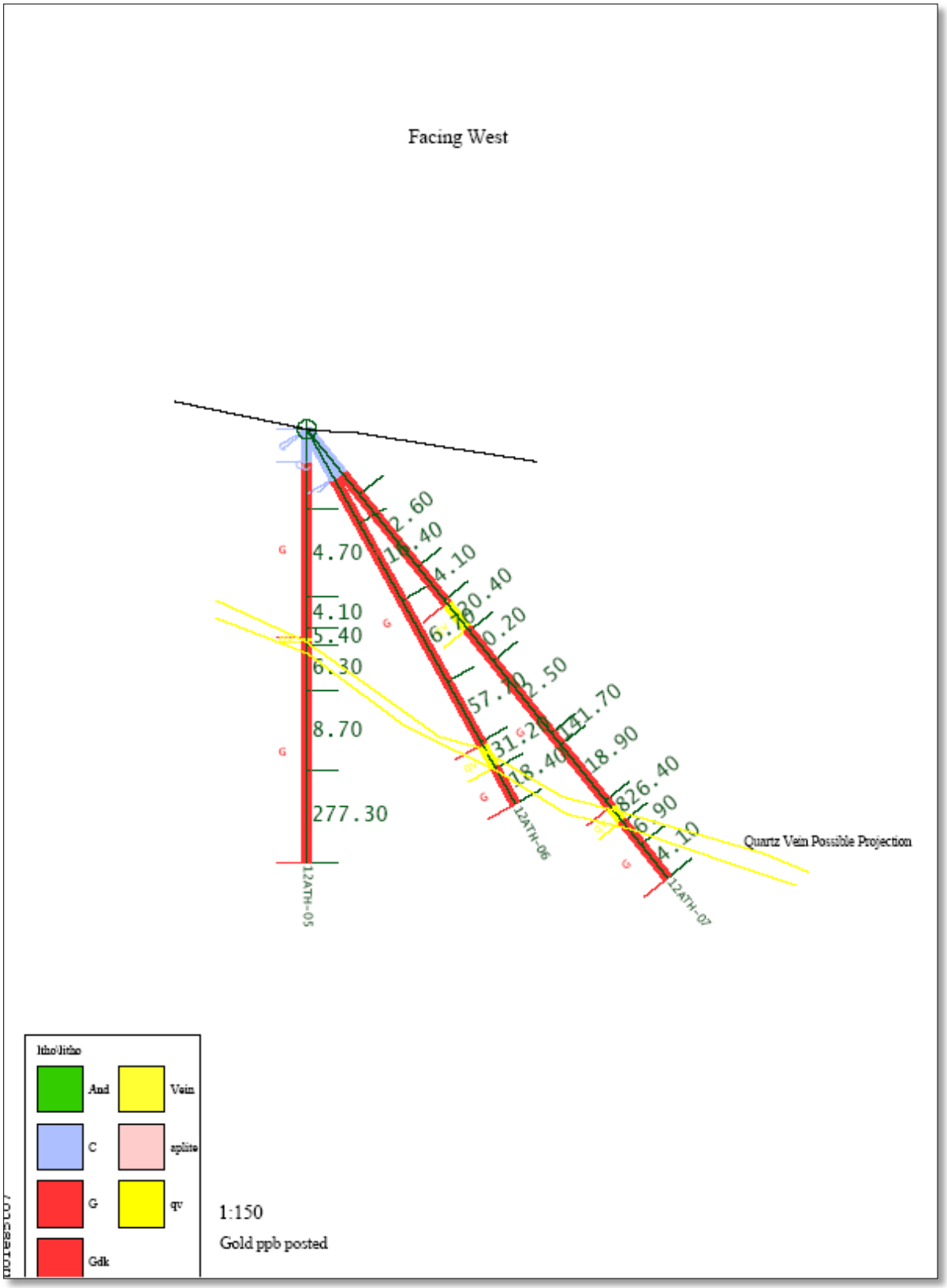
1:500

Gold ppb posted

section_all_01_04

SURPAC - Gemcom Software

Figure 10 - Section 12ATH-05 to 12ATH-07



Figures 8 and 9 show drill holes 12ATH-01 to 12ATH-04 locations immediately at the down dip extension of the mined vein system. Figure 9 includes an approximate location of the underground workings at the lowest level of the mine, interpreted from available historic mine plans. As displayed, the four drill holes should have intercepted the main vein within the length of the hole.

Holes 12ATH-05 to 12ATH-07 were drilled as a fan of short holes to test a vein exposed at surface at that location, to the east of the initial 4 drill holes and above the mine workings. Quartz veins were intersected in all three holes, with only hole seven intercepting significant gold in the vein. A proposed vein location of the target vein is interpreted on the section.

9.0) DATA VERIFICATION

Samples were submitted to Acme Laboratories located in Vancouver, BC. Acme is currently registered with International Standards Organization (ISO) accreditation. The ISO adopted a series of guidelines (ISO 9000 to 9004) for the global standardization of Quality Assurance for products and services. A company seeking accreditation must implement and maintain a quality assurance system that is compliant with one of the three applicable models (i.e. ISO 9001, 9002 or 9003). Some of the aspects specifically addressed in a quality assurance system include:

- Responsibility of management in defining and achieving quality goals,
- Contract review to ensure customer needs are understood and met,
- Procurement of supplies and services capable of delivering the desired level of quality,
- Handling of material supplied by the customer to ensure integrity,
- Controlling processes to ensure consistency of quality,
- Inspection and testing to ensure that all work meets or exceeds quality criteria,
- Training of staff, and
- Statistical analyses to ensure quality criteria are met.

Acme utilized standards and duplicate analysis of samples as part of their quality assurance. The certificates of analysis indicate repeat analysis and standards in the QC section of the spreadsheets. The laboratory identifies and remedies situations where the analysis of duplicates or standards is not within allowable levels of variation. Examination of the assay certificates did not show any significant deviations from expected results. It can be concluded that the assay values obtained during the 2012 diamond drilling program are accurate.

In addition to ACME Labs standard routine procedure of inserting standards, blanks, and duplicate assays, Hellix established a procedure for the drilling program consisting of inserting one ‘blank’ sample approximately every 20th sample, and one standard at approximate every 20th sample. The blank material was “granite” procured from a landscape supply company. The blanks generally returned very insignificant amounts of base and precious metals. Standards were obtained from CDN Labs in Vancouver. Plots of results of analysis for standard and blank materials inserted into the sample stream are provided below. Certificates of analysis for the standards are provided in the appendices of this report.

Figure 11 – Blanks Analysis, Gold

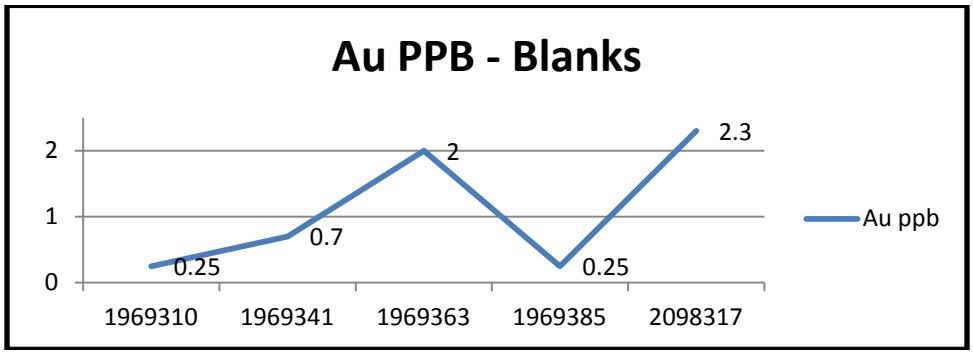


Figure 12 – Standard 12 Analysis, Gold

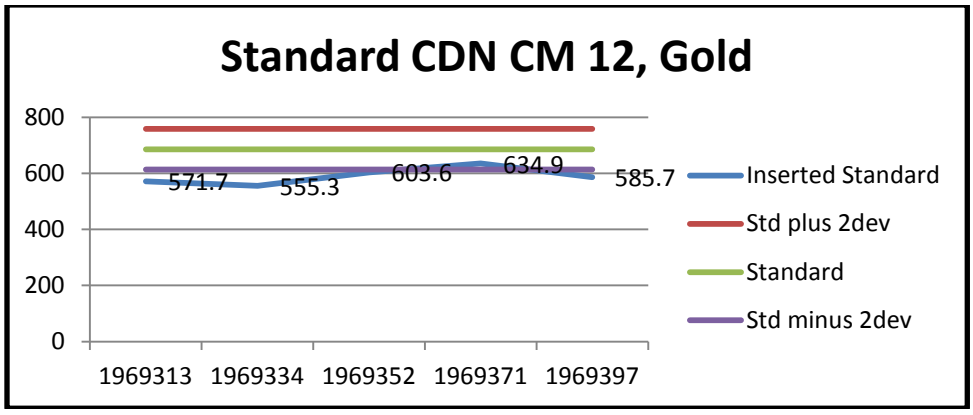
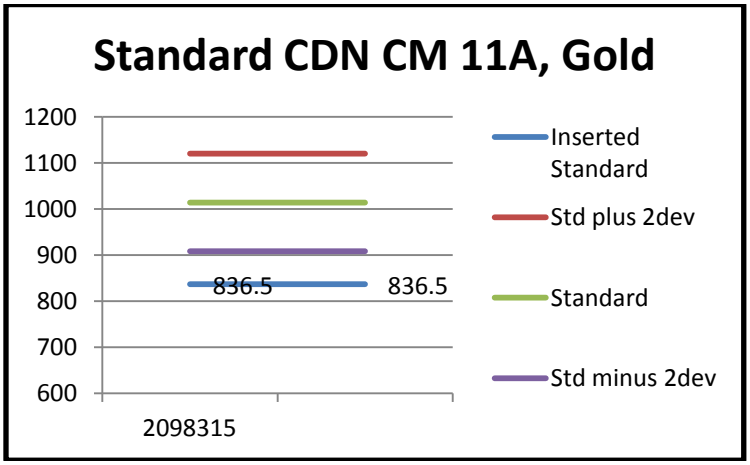


Figure 13 – Standard 11A Analysis, Gold



The five samples of blank material inserted into the sample stream returned very low values, just above or at the lower limit of detection for gold, as expected.

Both of the standards that were inserted into the sample stream (five of the CDN labs CM 12, and a single CDN Labs CM 11A) returned values that were just at or below the lower value provided by the lab, which is analysis minus two standard deviations. This may indicate that samples of drill core that were analyzed at that time might have returned values marginally lower than what might have been expected. However, the values do not warrant re-analysis to be undertaken.

10.0) CONCLUSIONS AND RECOMMENDATIONS

Soil sampling on the Athabasca property has outlined several areas worthy of further work. Areas with greater than 100ppb gold in soil should be prospected for bedrock sources, which in most cases will be upslope from the soil sample location.

Diamond drilling designed to intercept the down-dip extension of the vein as mined in the historic Athabasca Mine workings was not successful at intercepting a similar vein. It is suspected that the vein undergoes several offsets along faults within the mine, and these may be of enough magnitude to result in the vein offsetting away from the area of the drilling either laterally or vertically.

Further work in assessing the potential remaining mineralized vein extending from the areas mined historically may require direct sampling of the vein. This would be possible by accessing the vein through the existing underground workings. In order to overcome the effect of variable gold content in the vein (nugget effect), a larger sample would be possible by slashing out portions of the vein where exposed along the drifts. During the fall 2012 program, Hellix opened the number 2 adit portal into the mine and completed a brief inspection of the workings at that location. Caving was evident within 50 metres of the portal. Other access routes may be more viable. Significant rehabilitation work will be required to gain safe access to the vein for sampling.

Perry Grunenberg, P.Geo.
March 1, 2013

11.0) REFERENCES

Addie, G and Leighton, D., 1988**:** 1987 Compilation Report on Geology, Geochemistry and Geophysics Surveys on the Athabasca Property, Beaty Geological Ltd, for Cassidy Resrouces Inc

Giroux G, Dandy, L., 2004**:** Preliminary Resource Calculations for Gold Mountain and Kena Zones, Kena Property, BC

Grunenberg, P., 2011**:** Soil and Rock Sampling Report on the Athabasca Property, Nelson, BC, Assessment Report November 16, 2011.

Hoy, H and Dunne, K., 1997**:** Early Jurassic Rossland Group, Souther British Columbia, Part I – Stratigraphy and Tectonics, BC Ministry of Energy and Mines Bulletin 102

BC Ministry of Energy and Mines: Maplace (Geology), and Minfile websites, Minfile 082FSW168 Athabasca

12.0) QUALIFICATIONS

CERTIFICATE: Perry Grunenberg

I, **Perry Grunenberg**, hereby certify that:

a) I am a consulting Geoscientist with PBG GEOSCIENCE having an office at 2016 High Country Boulevard, Kamloops, British Columbia, V2E 1L1.

b) I am a graduate of the University of British Columbia with the degree of Bachelor of Science in Geology (1982).
I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (Registration No. 19246) and a Fellow of the Geological Association of Canada (Membership No. F5203).
I have practiced my profession in North America since 1982, having worked as an employee and consultant for major mining corporations, junior resource companies and BC government ministries.

c) I was contracted to prepare this report on behalf of Hellix Ventures Inc. I also personally managed the exploration program summarized in this report.

d) I have personally prepared or have reviewed all sections of this report including the illustrations.

e) I have managed exploration programs, similar to the one covered in this report, as a consulting geoscientist on behalf of various mining exploration companies since 1982.

March 1, 2013
Kamloops, B.C.

Perry Grunenberg, P.Geo.
Consulting Geoscientist

14.0) COST STATEMENT

EXPENDITURES ATHABASCA DRILL PROJECT 2012		
Mobilization - Drill Rig, Custom Dozing		$ 2,203.00
Pad/Road Construction, Custom Dozing		$ 6,602.00
Coring Holes 1 – 7, Lucky Drilling		$ 58,034.00
Demobilization -Drill Rig, Custom Dozing		$ 2,203.00
Reclamation- Custom Dozing		$ 2,926.00
Geologist – Perry Grunenberg, PGeo		$ 11,836.00
Core Splitting/Shipping, Bob Denny		$ 1,725.00
Assays – Acme Labs		$ 4,090.00
EXPENDITURES DRILLING		$ 89,619.00

EXPENDITURES ATHABASCA DRILL PROJECT 2012								
OPERATION - COMPANY/PERSON	AMT PAID	MAN DAYS	$/ DAY	DATES	TRUCK DAYS	$/DAY	DATES
Mobilization - Drill Rig, Custom Dozing	$ 2,203.00	3-30 HOUR	$50/HR	5-Oct	LOWBED	$467	5-Oct
Pad/Road Construction, Custom Dozing	5,622.00	3-27 HOUR	$160/HR	AUG 16/17/20	MOB FEE	$700	FEE
Coring Holes 1 – 7, Lucky Drilling	$58,034.00	16	**BELOW	OCT 6-13	8-DRILL	$100P/M	OCT6-13
Demobilization -Drill Rig, Custom Dozing	$ 2,203.00	3-30 HOUR	$50/HR	15-Oct	LOWBED	$467	15-Oct
Reclamation- Custom Dozing	$ 2,926.00	3-18.5HOUR	$125/HR	OCT 12/15/16	MOB/DEMOB	$300	OCT 12 + 16
Geologist – Perry Grunenberg, PGeo	$11,836.00	13	$700	*SEE BELOW	6.5	$100	*SEE BELOW
Core Splitting/Shipping, Bob Denny	$ 1,725.00	6	$275	OCT 7 THRU 17	1	$75	17-Oct
Assays – Acme Labs	$ 4,137.00						
EXPENDITURES DRILLING	$88,686.00						

***P GRUNENBERG, P. GEO 1)** MAN DAY DATES: AUG 8/11/15/16/17/18 AND OCT 3/4/5/6/7/8/9/10/11/12/13/14/15 **2)** TRUCK DAYS OCT 5/7/8/9/10/11/13
3) ACCOMODATION - 3 NIGHTS @$75p/n($225) Aug 16/17/18; 8 NIGHTS @$60p/n ($480) Oct 8 through 15 **4)** FOOD OCT 8 THROUGH 15 ($211)
5) MAN DAY DATES AND TRUCK DAYS WERE SUBJECT TO HST (12%) ON TOP OF $/DAY RATES

CUSTOM DOZING - DRILL PADS, ROADWORK - MAN AND JD200C EXCAVATOR 3 MAN DAYS ($5020) PLUS 12% HST
DRILL MOB 3 MEN ONE DAY = 3 MAN DAYS ($1500)PLUS LOWBED FEE ($467) PLUS 12% HST
DRILL DEMOB 3 MEN ONE DAY = 3 MAN DAYS ($1500) PLUS LOWBED FEE ($467) PLUS 12% HST
RECLAMATION 3 MAN DAYS($2313) PLUS MOB AND DEMOB OF 312 EXCAVATOR THREE DAYS ($300 FEE) PLUS 12% HST

****LUCKY DRILLING - HOLE CORING** - BASIC CORING ALL INCLUSIVE (most) @ $100 P/M (478.26m total)PLUS HST 12%. SET UP/TEAR TOWN/MOVE HOLE @$75
Equipment (diamond drill BTW size)rate of $100 p/h for hole stabilization and delays - all accomodation and expenses included,
water heater @ $100 p/day. D4H CAT USED FOR MOVING DRILL TO NEW HOLES @ $50 P/HR (14 HR TOTAL)
2 MEN @ 8 DAYS = 16 MAN DAYS FOR HOLE CORING

ACME LABS **CORE SAMPLE ANALYSIS -** 121 SAMPLES 15G Aqua Regia digestion ICP-MS Total including HST $4090.69
METALLIC FIRE ASSAY 500 G SAMPLE - Total including HST $46.70

Total man days drilling - 47

EXPENDITURES ATHABASCA SOIL SAMPLING 2012							
OPERATION - COMPANY/PERSON	$ AMOUNT	MAN DAYS	$/ DAY	DATES	TRUCK DAYS	$/DAY	DATES
Geologist - Perry Grunenberg, PGeo	1,568.00	2	$700/d	May7+June6/22			
Soil Sampler/Grid Work - Bob Denny	1,470.00	4	$275/d	June7/8/13/15	4	$75	June7/8/13/15
Soil Sampler/Grid Work - M Maurice	960.00	4	$240/d	June7/8/13/15			
Assays - Acme Labs	4,127.00						
EXPENDITURES SOIL SAMPLING	$8,125.00						

P. GRUNENBERG, PGEO - MAN DAYS CHARGED AT ABOVE RATE PLUS 12% HST
ACME LABS - 122 SOIL SAMPLES TESTED FOR 37 ELEMENTS AR DIGESTION ICP-ES ($4,127)

TOTAL MAN DAYS 10 - TOTAL TRUCK USAGE DAYS 4

15.0) APPENDIX

DRILL CORE GEOLIGICAL LOGS

GEOTECHNICAL LOG

SAMPLE INTERVAL SUMMARY

ASSAY CERTIFICATES

HOLE ID **Hellix Ventures Ltd**

2012 Athabasca Drilling Program

	Depth (m) From	Depth (m) To	Lith	Description	Structure Depth	Structure Type	Structure Angle	Mineralization %Py	%Aspy	%Cpy	%Sph	Other	Alteration Scale: 0 - 5 Ser Kspar	Chl	Epi	Mag	FeOx	CO3	Silic
12ATH-01	0.00	0.44	C	Casing through broken bedrock, granitic															
12ATH-01	0.44	107.59	G	Granite, Silver King? - white and grey spotted porph texture with up to 5% megacrysts Kspar of 5 to 15mm size subhedral broken to euhdral grains, crowded plag white phenocrysts to 50% square euhedral grains to 5mm size, sericite in matrix, pinkinsh hue to color in granite possible weak K alt, minor disseminated pyrite, weak green hue to some mafics, mafic fine grained in matrix, rusty pervasive patches at top of hole down to 3m and on margins of some veins, alteration patches with higher seric-chl pervasive near 7.0				tr					1.0						
12ATH-01																			
12ATH-01	eoh	353ft		Veins - succession of 1 to 2cm wide veins at 50deg to core axis, approx 1 per metre, some closer spaced in places,	5	vn	50	1.00									2.0		
12ATH-01				increased veining from 11m to 15m, 11m;11.4;12.3;13.914.5, some rusty patches along veins, py specks	5.6	vn	50												
12ATH-01				Alteration patchy sections of slightly increased pervasive greenish sericite with possible chl	7.9	vn	55						3.0	1.0					
12ATH-01				20.1-20.3 - rusty quartz vein, 30 to ca, white quartz with pyritic rust	20.1	vn	30.0												
12ATH-01				Alteration patchy sections of slightly increased pervasive greenish sericite with possible chl, slightly broken core with possible seric-talc															
12ATH-01				23.57 - slighty rubbly section over 10cm, broken core and weak weathered possible chlorite															
12ATH-01				26.77 - 10cm section alteration with single 1cm veinlet, rusty, minor py, weak alteration halo around vein															
12ATH-01				26.9 to 30 - minor incease in 1cm veinlets to 4 over section, 50 to 60tca	29.6	vn	60												
12ATH-01				30.1-30.4, weak altered core to broken and slight oxidized weathered									1.0				1.0		
12ATH-01				32.3 - 10cm section rusty oxidized, weak alteration halo on thin veinlet/fratcure															
12ATH-01				34.8 to 37.6 - few 1cm quartz veins at 50 tca with a single low angle 10tca 1cm vn from 37.2to37.5	37.3	vn	10												
12ATH-01				39.4 -aplitic dyklet 8cm at 70tca	39.40	dk	70												
12ATH-01				41.5-42.6 weakly weathered to slight crumbly core, possible ateration around single veinlet at 41.85															
12ATH-01				47.4-48.4 pervasive silicification to somewhat mottled texture with greens and greys	47.4	alt							2.0	1.0					3
12ATH-01				49-49.5 slightly finer grained porph, possible intrusive dyke	49.00	dk	45												
12ATH-01				54 - crumbly 2cm quartz py veinlet, 10 percent rusty cavities															
12ATH-01				59.5-62.5 weak pervasive green colored core, seric plus chlorite, minor veining									2.0	1.0					
12ATH-01				62.55-62.8 sugary quartz vein with clots of chlorite on lower contact, purplish specs and small masses possible sphal, very colorful at lower contact mottled and masses of green and brown (chl sphal)	62.55	vn	40												
12ATH-01				65.4-65.5 single 3cm qv with chl margin,	64.5	vn	20												
12ATH-01				66-67 - mottled weak chl seric creamy brown and green alteration, patchy									1.0	1.0					
12ATH-01				70.75-71.3 mottled broken quartz and altered granite, 2 or 3 quartz veins with a single larger vein of approx 20cm at lower end, possibly the main vein? Small specs py, lesser sphal, possible yellowish staining from scheelite, quartz seric with mottled rusty staining along vein	71.1	vn	30	1.00			1.0		1.0	1.0			1.0		1
12ATH-01				84.8-85 altered margins to 2cm qvein at 84.9, pervasive k alt with seric, brown rusty colors	84.9	vn	60	1.00					2.0				2.0		
12ATH-01				85.85 - 2cm qv, white	85.85	vn	60												
12ATH-01				88.8-89.1 alteration margins to 4cm qv at 89, minor inclusions of fine lines in qv, alteration halo fine grained seric possible silica and k alt	90	vn	55						2.0	1.0					1
12ATH-01				92.7-92.8 fine hairline fracture with py and possible sphal, alteration halo seric and silica									3.0						2
12ATH-01				94.4- 1cm quartz veinlet, py, weak alteration margins	94.4	vn	45												
12ATH-01				97.4-97.5 white quartz vein about 8cm, 50ca, slightly broken irregular, some patchy inclusions greenish color	97.4	vn	50												
12ATH-01				98.3-98.5 - rusty and pocky quartz vn, py, sphal, blobby sulphides some allignment to vn wall	98.5	vn	70	3.00			3.0								
12ATH-01				100.2-100.3 - qv, 5cm irregular, weak brecciation, slight pocky															
12ATH-01				107.4-107.5 2cm quartz vein, slightly banded, specs of sulphide py, sp?	107.5	vn	60												
12ATH-02	0.00	3.66	C	casing through sidecast from pad and broken granite bedrock															
12ATH-02	3.66	90.83	G	crowded feldspar porphyry, white euhedral to subhedral broken grains feldspar of 3 to 5mm size in fine grained grey matrix of altered mafic and quartz, few megacrysts feldspar to 2 or 3cm size, patchy zones of alteration mostly sericite and silica flooding that in places is along margins of quartz veins to 30cm on each side of vein, few single 2 or 3cm quartz veins (1 or 2 in 5m sectons), with some veins to 20cm size				1.00					1.0						2
12ATH-02		298 ft eoh		14.3-14.5 broken quartz vein, rusty margin, white with py along upper contact, 5cm wide	14.3	vn	70												
12ATH-02				17.7-17.9 quartz vein, grey boundaries silicified, minor py, white quartz at lower contact, 4cm	17.8	vn	60												

HOLE ID **Hellix Ventures Ltd**

2012 Athabasca Drilling Program

	Depth (m)		Lith	Description	Structure			Mineralization					Alteration Scale: 0 - 5						
	From	To			Depth	Type	Angle	%Py	%Aspy	%Cpy	%Sph	Other	Ser / Kspar	Chl	Epi	Mag	FeOx	CO3	Silic
12ATH-02				21.5-22.8 splotchy quartz lenses and silicified sections of 5cm width, lenses of quartz white eye shaped tension infills, individual grains and few small pods py in silic-seric altered segments, patchy, slight mottled texture															
12ATH-02				28.3 - 4cm qv, minor fracture filling purplish sphalerite?, white quartz with minor py on upper margin	28.3	vn	50												
12ATH-02				29-39 patchy alterations with green to cream colorations, weak to moderate sericite-chl possible Kalt, remnant megacrysts fspar to 4cm size, square, twinned or ringed growths, very minor 1cm quartz bands at 50 to 70 tca, core more decomposed from 38.1 to 38.4 with chalky clayey possible argillic alteration				1.00					1.0	1.0					1
12ATH-02				45.05-45.27 whte quartz vein with fracture infills sphalerite and pyrite, few specks individual grains, iron oxide orange staining possible scheelite, strong seric-silica on margins over 10cm lower and 30cm upper	45.2	vn	50												
12ATH-02				46.8 4cm qv white with minor flecks sulphide	46.8	vn	60												
12ATH-02				47.4-47.6 quartz vein with infillings of py and sphalerite, white quartz with minor alteration on margins, 5% sulphide content, brassy and shiney py fine infillings in fractures	47.4	vn	45												
12ATH-02				50-50.3 section of increased seric silica alteration to grey core, porph texture destruction, moderate alteration									3.0						3
12ATH-02				54.4-54.9 increased grey pervasive alteration, seric and silica, single 2cm quartz band centered in segment	54.6	vn	60						2.0						3
12ATH-02				55.9-56.1 seric silica grey core alteration									2.0						2
12ATH-02				68.7 1cm qv white	68.7	vn	70												
12ATH-02				70.0 - 2cm white quartz veinlet with py on lower margin	70	vn	60	1.00											
12ATH-02				72-72.5 silicified segment, weak alteration with seric, greenish grey pervasive									1.0						1
12ATH-02				75-90 - weak patchy sections seric silica alteration, some sections to 10cm with pervasive grey coloring, little to no sulphide or veining, single rusty fracture with pocky 1cm quartz band at 79.2, several fractures along core towards end of hole with carbonate and clay coatings	79.2	vn	70												
12ATH-03	0.00	2.44	C	casing, road sidecast and broken bedrock															
12ATH-03	2.44	28.70	And	augite porph andesite, grey to green grey with fine grained equigranular massive textured matrix with 5% fine subhedral grains 2mm size, patchy epidote-carbonate-chlorite alteration in bands and pervasive sections up to 5 or 10cm, fine py disseminated to less than 1%, minor py bands of 4mm size irregular lenses				1.00						1.0	1.0			1.0	
12ATH-03				5.8-8 slight increased carbonate in crumbly core, weak stockwork veining														2.0	
12ATH-03				12.5-15 - minor sections crumbly core with carbonate, some fracture coating clay and carbonate															
12ATH-03				19-28.7 mostly massive slightly carbonate altered green chloritic andesite, very fine phyric augite															
12ATH-03	28.70	34.20	G	feldspar crowded pinkish light grey with white and pink spotting feldspar, 40% plag, 20% kspar as white and pink colored 3mm grains, dense matrix, few to no megacrysts, silver king appearing granitic, minor late fract filling py, few individual flecks, minor carbonate on fractures	34.2	cntc	40	1.00										1.0	
12ATH-03	34.20	51.50	And	Andesite, grey to greenish grey, patchy altered chloritic to weak silicified, carbonate on fractures with minor veining, weakly banded at 50 tca over 50cm sections, patchy cream and green carbonate-chlorite-possible silica-kspar overprint to pinkish colors (minor), minor disseminated fine py grains, broken segments of core with carbonate fracture coatings, single 3cm dykelet pinkish aplite at 38.6	38.6	dk	50	1.00						1.0	1.0			1.0	
12ATH-03				46-50 slightl increase in warpy banded mottled texture with epidote-carbonate										1.0	2.0			2.0	
12ATH-03	51.50	54.45	G	feldspar crowded spotted as white and pink kspar with grey less obvious plag, grey to grey green overall color, mostly massive texture with weak patchy light green alteration (sericite, epidote), weak carbonate, minor fine py individual grains	54.45	cntc	50	1.00					1.0	1.0	1.0			1.0	
12ATH-03	54.45	83.45	And	mostly massive green to grey with minor patches phyric 3mm grains augite as black to dark green anhedral grains, some sections finely banded at 30 to 40, patchy warpy mottled to weak banded light green epidote-carbonate altered segments to 5cm width, 32.1 single 5cm aplitic pink band at 60 tca, minor anastoming 1 to 3mm carbonate veining over short sections, minor fine grained individual grains py	76.5	cleave	50	1.00							1.0			1.0	
12ATH-03	83.45	84.30	VEIN DYKE	very silicified glassy light grey to pinkish feldspar-quartz with specks chlorite, fine specks py disseminate, brittle, specks of chl, contacts sharp broken uneven	83.45	cntc	40	1.00					1.0	1.0					1
12ATH-03	84.30	86.80	And	mostly grey to green massive with slight banding, single kspar granitic band dykelet 5cm at 85.0, carb on fractures and horsetail stringers															
12ATH-03	86.80	86.95	Vein	quartz vein, brittle fractured grey and white, minor sulphides bleb py with possible fleck sphalerite, sharp contacts	86.8	vein	50												
12ATH-03	86.95	89.00	And	short section andesite between veins, greenish grey moderate chlorite	89	cntc	40												

HOLE ID **Hellix Ventures Ltd**

2012 Athabasca Drilling Program

	Depth (m)		Lith	Description	Structure			Mineralization					Alteration Scale: 0 - 5						
	From	To			Depth	Type	Angle	%Py	%Aspy	%Cpy	%Sph	Other	Ser / Kspar	Chl	Epi	Mag	FeOx	CO3	Silic
12ATH-03	89.00	89.30	VEIN DYKE	pink and grey glassy quartz feldspar vein with minor py specs, chl flecks fine black thin inclusions, one 3mm band of py along lower contact				1.00					1.0						1
12ATH-03	89.30	87.96	And	green to dark green black with minro warpy alteration															
12ATH-03	87.96	88.22	VEIN DYKE	quartz kspar pink and grey glassy, granitic dyke verging on quartz vein	87.96	vein	70	1.00											
12ATH-03	88.22	96.50	And	green to dark grey andesite trending from massive basaltic augite porphyry to more laminated/cleaved altered andesite with carbonate and chlorite bands of mm to cm size, minor py disseminate with few clots of 1cm size	94	lamin	40	1.00											
12ATH-03				94-96 strong laminated core, weak carbonate with epidote bands, dense core with possible siliceous overprint				1.00						1.0	1.0				2
12ATH-03	96.50	98.40	VEIN DYKE	another pink and white granitic siliceous massive brittle vein or granitic dyke, minor specks py, few chlorite clots, trends to feldspar spotted granitic texture through center of section				1.00					2.0						2
12ATH-03	98.40	99.50	G	granite with crowded fspar plag porphyry as 3mm euhedral grains in fine massive grey matrix, trends to pinkish kspar altered at lower end of section, minor py individual grains, gradation upper contaction sharp broken lower	99.5	cntc	20	1.00					1.0						2
12ATH-03	99.50	100.30	And	light green laminated altered andesite, fine py, weak pervasive silicification				1.00											1
12ATH-03	100.30	101.10	G	non distinct grains of feldpar, some remnant megacrysts feldspar visible within near massive quartz silicified appearance, grey to creamy pink, sharp contacts (dyke)	100.3	dyke	30						1.0						1
12ATH-03	101.10	108.50	And	altered banded to foliated green to grey andesite with stretched remnant chloritic augite, banding and foliation strong over top of section becoming more massive by end of section, fine speck py as well as pronounced shiney py banding of 2 or 3mm size, few, warpy banded carbonate chlorite few to 1cm, sharp contact to next vein	102	lamin	45	1.00						2.0				1.0	1
12ATH-03	108.50	108.95	VEIN DYKE	pink and white glassy vein like dyke, feldspar quartz with minor flecks elongated mafic, chloritic flecks, sharp contacts, crackled fine hairline fractures									2.0						2
12ATH-03	108.95	113.65	And	more of the banded green with white carb quartz foliated lenses to 10%, minor py specks and few warpy mm size laminations, foliation slightly stronger near 113	113	lamin	45	1.00						2.0					
12ATH-03	113.65	114.00	VEIN DYKE	quartz kspar, brittle siliceous with pinkish hue, less granitic looking and more quartz vein looking than other vein Dykes, little to no sulphides, sharp contacts	114	cntc	70						2.0						2
12ATH-03	114.00	121.31	And	light and dark green laminated to massive augite andesite porph, variable textures, weak tension gash infilling carbonate with minor quartz, variable orientations with preference to 40, more spotted texture rounded dark green augite remnants to 20% of core toward end of hole, several 1cm to 5cm pinkish granitic dykelets near 121m, contact noted from fine grained (chilled) to coarser grained augite porph at 45 (volcanic bedding)	118.6	cntc	40	1.00						2.0				1.0	1
		eoh	398 feet																
12ATH-04	0.00	1.90	C	casing through sidecast and broken bedrock, some rounded granitic pieces in box															
12ATH-04	1.90	12.40	And	green and grey massive to weakly laminated with patchy epidote carbonate alteration, specks py with lesser 1-3mm bands of py, minor horsetailing white carbonate stringers with offsets representing possible late stage faulting of 1 to 4cm,	8	lam	50	1.00						3.0	1.0			2.0	
12ATH-04				4-5 stronger altered section with warpy pocket of carbonate and epidote, some pinkish coloring possible sphalerite, py blebs near 4.5				3.00						2.0	3.0			3.0	
12ATH-04				6-6.15 pink and white granitic band or vein, coarse rounded broken contacts brittle core section, quartz kspar	6	cntc	40						3.0						3
12ATH-04				8-9; 3 quartz bands at 40 tca, white with minor pockets of py	8.3	vn	40												
12ATH-04				9-12.4 minor mottled section of 10cm length with epidote and carbonate, weak kspar pinkish color in minor altered sections															
12ATH-04	12.40	14.00	G	altered spotted textured granite, texture remnant in sericite with weak kspar alteration, some pinkish feldspars, rusty fracture surfaces with weak upgrade in pyrite (phyllic alteration), weathered appearance and pocky, fuzzy contacts	12.4	cntc	40	1.00					3.0						
12ATH-04	14.00	46.19	And	augite phyric in places but mostly altered and weakly sheared or banded light grey, green and dark grey to black massive to banded and warpy segmented or mottled texture, few bands of granitic and kspar or quartz veins and mini dykes, generally low py content as individual grains with few 1-2mm elongated bands or pods				1.00					1.0	2.0	1.0			2.0	
12ATH-04				14.6-15 stronger sericite and carbonate alteration pervasive through core	18	lam	45												
12ATH-04				15-16.5 strong sericite and carbonate with minor rusty staining and carbonate veining, broken core with clayey fractures															
12ATH-04				16.5-25.8 grading to more massive augite phyric andesite, dark grey to black color, few banded segments, one granitic band 4cm at 19.4	18.6	lam	45												
12ATH-04				25.8-37 modertate to stronly laminated volcanic with sections of strong silicification to sugary textured white finely laminated core, particular near 27m, variable textures from black spotted volcanic to epidote green and carbonate white banded, minor py	19.4	dk	45	1.00					1.0	3.0	2.0			2.0	1
12ATH-04				43.3-43.5 quartz kspar band, mostly glassy clear to white with minor pinkish hue	43	vn	50						3.0						3
12ATH-04				43.9- 5cm granite band, salt and pepper textured dykelet	43.9	dk	35												

HOLE ID **Hellix Ventures Ltd**

2012 Athabasca Drilling Program

	Depth (m) From	Depth (m) To	Lith	Description	Structure Depth	Structure Type	Structure Angle	Mineralization %Py	%Aspy	%Cpy	%Sph	Other	Alteration Scale: 0 - 5 Ser Kspar	Chl	Epi	Mag	FeOx	CO3	Silic
12ATH-04	46.19	46.50	G	granite dyke, remnant granitic texture in mostly pink and grey kspar quartz flooded segment, sharp contacts, no visible sulphides	46.19	cntc							3.0						3
12ATH-04	46.50	47.14	And	dark grey mostly massive to finely banded, single 5cm quartz vein at 46.75	46.75	vn	60												
12ATH-04	47.14	47.35	G	short segment with laminations of pink and white granitic looking veining or dyke, no sulphides noted	47.14	dk	60												
12ATH-04	47.35	50.30	And	massive to finely laminated mostly dark grey-green with lesser light grey altered sections, epodite banding with some purplish colored sphalerite or garnets as 2mm wide elongate masses within epidote sections, at 48.3 single granite dyke of 3cm width at 45 tca,	48.3	dk	45												
12ATH-04	50.30	50.80	Vn	weak anastomising and banded quartz veining with very minor granitic component, about 30% quartz veining with granitic spotted fspar granitic segments	50.3	cntc	50												
12ATH-04	58.80	51.20	And	finely laminated with stretched augite as dark elongate spots															
12ATH-04	51.20	52.04	vn	quartz kspar granitic dyke to vein, specks of py throughout to 2%, sharp contacts, sugary textured white quartz through most of central part of section, warpy chlorite clots to 1cm wide, few, with very hairline thin py along margins, very weak carbonate pervasive, remnant granitic in places, with single 4cm band of quartz toward bottom of section	51.2	cntc	45	2.00					1.0	1.0					4
12ATH-04	52.04	52.88	And	finley laminated to massive, green grey to purplish hornfelsed sediment look															
12ATH-04	52.88	111.25	G	mostly feldspar crowded silver king porphyry appearance with some sections of veining, py specks to trace amount, veining is stronger with elevated py masses				1.00											
12ATH-04		eoh 365ft		55-55.2 strong silica flooded mottled appearance															3
12ATH-04				58.6 - single 3cm quartz vein at 30tca	58.6	vn	30												
12ATH-04				60.3 - 2cm quartz band with chloritic margins	60.3	vn	70												
12ATH-04				61-61.6 quartz vein with up to 80% white quartz, strong py masses near 61.4 up to 20% of core as coarse grains, dark green chloritic pockets around py masses	61.6	vn	70	20.00											
12ATH-04				64.8 3cm qv	64.8	vn	70												
12ATH-04				patchy silica possible potassic over 30cm sections every 2 or 3m															
12ATH-04				at 68 megacrysts fspar 3cm size, several															
12ATH-04				at 70.2 short section potassic, grey siliceous															
12ATH-04				at 76.8 short section silceous grey brittle															
12ATH-04				few warpy quartz carbonate horsetail and anastomising stingers, minor				1.00					1.0					1.0	1
12ATH-04				82.4 quartz veining, 3cm solid with patchy margins, py on margins as coarse pocketsm minor	82.4	vn	80	1.00											
12ATH-04				83.4-83.7 white and grey quartz veining steep contact at upper end and lower angle at bottom, more grey and glassy at bottom end, chlorite and few coarse py blebs	83.4	vn	70	1.00											
12ATH-04				89.55-89.7 grey glassy quartz vein over 15cm, crackly, pods py coarse grains with possible minor sphal to 10% of vein	89.55	vn	40	3.00											
12ATH-04				90.7 few patchy sections silicified and minor potassic as pink kspar over 10cm sections, few															
12ATH-04				91.6-91.85 quartz flooded section grey brittle quartz, vein-like, poddy py to 5% elongated parallel to vein margin	91.85	vn	70	2.00											
12ATH-04				93.8-96.4 altered section to grey semi glassy siliceous with possible K alt and slight increase py, partly weathered appearance through middle of section with carbonate on fracture at low angle to core, possible potassic altered margins with phyllic central portion															
12ATH-04				99.25-99.6 silica flooded section, poorly formed veining or quartz pods with chlorite and pyrite inclusions, 2% py as course blebs and fine specks				2.00										3	
12ATH-04				105.7 4cm quartz band, white, no sulphides	105.7	vn	50												
12ATH-04				106.4-106.5 few quartz bands, chlorite and py pods to 5% of vein, white quartz bands of 3 to 4 cm width	106.4	vn	65												
12ATH-04				110-111.25 section of pervasively altered granite to weak to moderate carbonate epidote with minor possible sericite, single quartz pod at 110.8, 5cm															
12ATH-05	0.00	1.07	C	Casing through broken bedrock, granite															
12ATH-05	1.07	6.80	G	white feldspar of 3 to 4mm size to 30% in equigranular textured granite, weak pinkish hue to some feldspars possible weak potassic alteration, somewhat weathered to etched core, some sericitic segments as fine shiney matrix, traces of fine pyrite individual grains, very fine pockets of py inceased content over mm width as weak fracture infills, few megacrysts fspar as oxidized 5mm to 1cm size grains				tr					1.0				1.0		
12ATH-05	6.80	6.96	QV	white crackled quartz vein with rusty fracturing, very rusty margins, oxidized boxworks and remnant py cubes, vuggy in places	6.8	vn	75												
12ATH-05	6.96	14.17	G	granitic, massive phyric to oxidized pockey core, very rusty sections from oxidized py, boxworks and vugs, oxidized megacrysts fspar from carbonate alteration, goethite brown staining, stronger iron oxide 9.2-9.6, minor upgrade in py to as much as 1%				1.00					1.0					1.0	

HOLE ID **Hellix Ventures Ltd**

2012 Athabasca Drilling Program

	Depth (m)		Lith	Description	Structure			Mineralization					Alteration Scale: 0 - 5							
	From	To			Depth	Type	Angle	%Py	%Aspy	%Cpy	%Sph	Other	Ser / Kspar	Chl	Epi	Mag	FeOx	CO3	Silic
12ATH-05		46.5feet																	
12ATH-06	0.00	1.83	C	casing through broken granite and pad material															
12ATH-06	1.83	11.80	G	grainte, rusty fractures at top to more competent slight pocky downhole, white fspar and pinkish kspar with few megacrysts, Silver King pophyry?, minor fine py disseminate, weak sericite				tr					1.0						
12ATH-06	11.80	12.65	QV	white quartz, slightly crackly with rusty fractures, parallel fractures at 50 tca, minor inclusion of granite 12.4-12.55, rusty broken granite, minor coarse py grains, single galena mass near upper contact	11.8	vn	45	tr				ga, tr							
12ATH-06	12.65	14.02	G	granite, slight rusty at vein contact trending to more competent slightly weathered at bottom, continued traces of fine py disseminate				tr									1.0		
12ATH-06		46 feet																	
12ATH-07	0.00	1.83	C	casing through broken granite and pad material															
12ATH-07	1.83	7.32	G	granite, rusty sections along fractures and moderately weathered appearance fractuing increased towards veining, minor py specks, weak sericite				tr					1.0						
12ATH-07	7.32	8.40	QV	white quartz veining along core axis, possible 5cm wide vein at low angle to core axis, very pocky with rusty vugs, possible carbonate oxidation to vugs, slight warpy veining, minor coarse py blebs, more massive py pod near bottom, still low percentage py	7.35	vn	10	1.00									2.0		
12ATH-07	8.40	15.90	G	granite, massive to fractured and rusty 2 feldspar granitic, single 1cm qv at 13.2m, rusty ven with strong oxidized vugs or boxworks from py	13.2	vn	45	1.00									2.0		
12ATH-07	15.90	16.50	QV	white quartz vein with strong iron oxidation and vugs, py mass of 4cm diameter near bottom, possible sphalerite, likely carbonate oxidized vugs, broken contacts,	15.9	vn	35	3.00									2.0		
12ATH-07	16.50	18.90	G	granite, rusty and vuggy, single quartz vein at low angle in broken segments of core at 17.3, about 2cm wide with rusty vuggy appearance, borwn oxidized granite, weathered to end of hole, minor py	17.3	vn	20	tr									3.0		

HOLE ID	FROM (m)	TO (m)	INT (m)	REC (m)	REC %	RQD(m)	RQD %	Fractures	NOTES
12ATH-01	0.00	2.44	2.44	1.82	75	0.13	7	24	
12ATH-01	2.44	3.35	0.91	1.04	114	0.31	30	14	
12ATH-01	3.35	6.40	3.05	3.08	101	1.41	46	33	
12ATH-01	6.40	9.45	3.05	3.01	99	1.56	52	23	
12ATH-01	9.45	11.28	1.83	1.76	96	1.24	70	13	
12ATH-01	11.28	14.33	3.05	3.06	100	2.82	92	5	
12ATH-01	14.33	17.37	3.04	2.96	97	2.28	77	13	
12ATH-01	17.37	20.42	3.05	3.07	101	2.92	95	4	
12ATH-01	20.42	23.47	3.05	3.08	101	1.91	62	13	
12ATH-01	23.47	26.52	3.05	3.15	103	1.85	59	14	
12ATH-01	26.52	28.96	2.44	2.46	101	1.30	53	14	
12ATH-01	28.96	32.00	3.04	3.12	103	2.33	75	18	
12ATH-01	32.00	35.20	3.20	3.02	94	2.68	89	8	
12ATH-01	35.20	38.40	3.20	3.09	97	2.89	94	5	
12ATH-01	38.40	41.45	3.05	3.07	101	2.16	70	10	
12ATH-01	41.45	44.20	2.75	2.80	102	1.65	59	19	
12ATH-01	44.20	46.94	2.74	2.71	99	1.95	72	18	
12ATH-01	46.94	49.99	3.05	3.16	104	2.52	80	11	
12ATH-01	49.99	53.04	3.05	3.00	98	2.70	90	9	
12ATH-01	53.04	56.08	3.04	3.12	103	2.09	67	16	
12ATH-01	56.08	59.28	3.20	3.09	97	2.97	96	6	
12ATH-01	59.28	62.33	3.05	3.09	101	2.44	79	6	
12ATH-01	62.33	65.53	3.20	3.08	96	2.61	85	7	
12ATH-01	65.53	68.58	3.05	3.16	104	2.65	84	9	
12ATH-01	68.58	71.78	3.20	3.11	97	2.72	87	7	
12ATH-01	71.78	74.37	2.59	2.43	94	2.10	86	4	
12ATH-01	74.37	76.20	1.83	1.87	102	1.87	100	1	
12ATH-01	76.20	79.25	3.05	3.12	102	2.88	92	6	
12ATH-01	79.25	82.30	3.05	3.10	102	3.10	100	5	
12ATH-01	82.30	85.50	3.20	3.10	97	2.89	93	7	
12ATH-01	85.50	88.70	3.20	3.08	96	2.98	97	3	
12ATH-01	88.70	91.74	3.04	3.07	101	2.97	97	6	
12ATH-01	91.74	94.95	3.21	3.09	96	2.43	79	10	
12ATH-01	94.95	97.99	3.04	3.05	100	2.37	78	9	
12ATH-01	97.99	101.19	3.20	3.24	101	1.97	61	21	
12ATH-01	101.19	104.39	3.20	3.05	95	2.77	91	9	
12ATH-01	104.39	107.59	3.20	3.08	96	2.45	80	11	
12ATH-01	EOH								
12ATH-02	3.66	5.49	1.83	2.16	118	0.99	46	11	
12ATH-02	5.49	8.53	3.04	3.22	106	2.40	75	14	
12ATH-02	8.53	11.58	3.05	2.89	95	2.32	80	11	
12ATH-02	11.58	14.63	3.05	3.07	101	1.59	52	17	
12ATH-02	14.63	17.68	3.05	3.04	100	2.82	93	8	
12ATH-02	17.68	20.73	3.05	2.89	95	2.62	91	8	
12ATH-02	20.73	23.77	3.04	3.02	99	2.46	81	9	
12ATH-02	23.77	26.82	3.05	3.07	101	2.42	79	15	
12ATH-02	26.82	29.87	3.05	3.01	99	2.60	86	8	
12ATH-02	29.87	32.92	3.05	3.05	100	2.70	89	6	
12ATH-02	32.92	35.97	3.05	2.97	97	2.60	88	8	
12ATH-02	35.97	39.01	3.04	3.07	101	2.50	81	10	
12ATH-02	39.01	42.06	3.05	2.98	98	2.91	98	4	
12ATH-02	42.06	45.11	3.05	3.06	100	2.81	92	6	
12ATH-02	45.11	48.16	3.05	3.06	100	2.98	97	8	
12ATH-02	48.16	51.21	3.05	3.07	101	2.56	83	12	
12ATH-02	51.21	54.25	3.04	2.79	92	2.42	87	9	
12ATH-02	54.25	57.30	3.05	3.14	103	2.46	78	10	
12ATH-02	57.30	60.35	3.05	3.10	102	1.14	37	16	
12ATH-02	60.35	63.40	3.05	3.13	103	2.48	79	14	
12ATH-02	63.40	66.30	2.90	2.75	95	2.33	85	10	
12ATH-02	66.30	69.34	3.04	3.12	103	2.82	90	9	
12ATH-02	69.34	72.54	3.20	3.05	95	2.44	80	9	

HOLE ID	FROM (m)	TO (m)	INT (m)	REC (m)	REC %	RQD(m)	RQD %	Fractures	NOTES
12ATH-02	72.54	75.59	3.05	3.09	101	2.62	85	10	
12ATH-02	75.59	78.64	3.05	3.15	103	2.06	65	13	
12ATH-02	78.64	81.69	3.05	3.09	101	2.53	82	12	
12ATH-02	81.69	84.73	3.04	3.08	101	2.48	81	8	
12ATH-02	84.73	87.78	3.05	3.08	101	2.51	81	9	
12ATH-02	87.78	90.83	3.05	3.10	102	2.68	86	8	
12ATH-02 EOH									
12ATH-03	2.44	4.27	1.83	1.64	90	0.13	8	20	
12ATH-03	4.27	5.94	1.67	1.61	96	0.35	22	22	
12ATH-03	5.94	8.53	2.59	2.75	106	0.83	30	26	
12ATH-03	8.53	11.58	3.05	3.20	105	0.77	24	28	
12ATH-03	11.58	12.80	1.22	1.23	101	0.10	8	16	
12ATH-03	12.80	12.95	0.15	0.23	153	0.00	0	6	
12ATH-03	12.95	16.15	3.20	3.13	98	0.96	31	28	
12ATH-03	16.15	19.35	3.20	3.36	105	0.52	15	>35	
12ATH-03	19.35	22.40	3.05	3.20	105	0.21	7	>35	
12ATH-03	22.40	25.45	3.05	3.05	100	0.46	15	>35	
12ATH-03	25.45	27.74	2.29	2.26	99	0.31	14	30	
12ATH-03	27.74	29.87	2.13	2.12	100	0.87	41	23	
12ATH-03	29.87	30.94	1.07	1.07	100	0.00	0	16	
12ATH-03	30.94	33.53	2.59	2.60	100	0.93	36	29	
12ATH-03	33.53	35.97	2.44	2.40	98	1.01	42	20	
12ATH-03	35.97	39.01	3.04	3.04	100	1.03	34	32	
12ATH-03	39.01	42.06	3.05	3.15	103	1.07	34	27	
12ATH-03	42.06	42.82	0.76	0.78	103	0.20	26	10	
12ATH-03	42.82	44.65	1.83	1.64	90	0.17	10	26	
12ATH-03	44.65	47.24	2.59	2.66	103	0.77	29	29	
12ATH-03	47.24	47.55	0.31	0.42	135	0.00	0	8	
12ATH-03	47.55	50.75	3.20	3.09	97	2.16	70	13	
12ATH-03	50.75	52.27	1.52	1.48	97	0.66	45	10	
12ATH-03	52.27	55.47	3.20	3.02	94	1.04	34	26	
12ATH-03	55.47	58.52	3.05	3.16	104	1.84	58	21	
12ATH-03	58.52	61.72	3.20	3.07	96	1.39	45	27	
12ATH-03	61.72	62.18	0.46	0.44	96	0.28	64	6	
12ATH-03	62.18	65.23	3.05	2.95	97	1.96	66	19	
12ATH-03	65.23	68.28	3.05	3.14	103	1.76	56	16	
12ATH-03	68.28	71.32	3.04	3.00	99	1.58	53	15	
12ATH-03	71.32	74.37	3.05	3.06	100	1.91	62	18	
12ATH-03	74.37	77.42	3.05	3.01	99	2.35	78	12	
12ATH-03	77.42	80.47	3.05	3.04	100	2.11	69	18	
12ATH-03	80.47	82.60	2.13	2.15	101	0.76	35	24	
12ATH-03	82.60	84.73	2.13	2.06	97	1.65	80	9	
12ATH-03	84.73	87.78	3.05	3.06	100	1.73	57	20	
12ATH-03	87.78	90.83	3.05	2.88	94	1.26	44	21	
12ATH-03	90.83	93.88	3.05	2.97	97	0.90	30	26	
12ATH-03	93.88	96.93	3.05	2.85	93	1.80	63	18	
12ATH-03	96.93	99.97	3.04	3.05	100	1.91	63	21	
12ATH-03	99.97	103.02	3.05	3.14	103	1.81	58	25	
12ATH-03	103.02	106.07	3.05	3.07	101	2.47	80	8	
12ATH-03	106.07	109.12	3.05	2.95	97	2.67	91	15	
12ATH-03	109.12	112.17	3.05	3.04	100	2.03	67	15	
12ATH-03	112.17	115.21	3.04	3.00	99	2.70	90	13	
12ATH-03	115.21	118.26	3.05	3.02	99	2.70	89	10	
12ATH-03	118.26	121.31	3.05	3.02	99	2.32	77	16	
12ATH-03 EOH									
12ATH-04	1.83	4.88	3.05	2.94	96	1.22	41	27	
12ATH-04	4.88	8.08	3.20	3.00	94	1.57	52	25	
12ATH-04	8.08	11.13	3.05	3.15	103	1.56	50	23	
12ATH-04	11.13	11.73	0.60	0.56	93	0.17	30	9	
12ATH-04	11.73	14.63	2.90	2.96	102	0.58	20	25	
12ATH-04	14.63	16.31	1.68	1.86	111	0.32	17	24	

HOLE ID	FROM (m)	TO (m)	INT (m)	REC (m)	REC %	RQD(m)	RQD %	Fractures	NOTES
12ATH-04	16.31	19.20	2.89	2.82	98	1.42	50	18	
12ATH-04	19.20	22.25	3.05	3.10	102	1.40	45	17	
12ATH-04	22.25	25.30	3.05	3.10	102	1.46	47	20	
12ATH-04	25.30	28.35	3.05	3.08	101	2.00	65	21	
12ATH-04	28.35	31.55	3.20	3.06	96	1.96	64	21	
12ATH-04	31.55	34.75	3.20	3.08	96	1.80	58	17	
12ATH-04	34.75	37.80	3.05	3.13	103	1.85	59	17	
12ATH-04	37.80	40.84	3.04	3.00	99	2.57	86	11	
12ATH-04	40.84	43.89	3.05	2.90	95	1.60	55	17	
12ATH-04	43.89	46.79	2.90	2.68	92	1.84	69	16	
12ATH-04	46.79	49.83	3.04	3.14	103	2.13	68	17	
12ATH-04	49.83	52.88	3.05	3.04	100	1.57	52	20	
12ATH-04	52.88	55.93	3.05	2.78	91	0.95	34	32	
12ATH-04	55.93	59.13	3.20	3.05	95	2.75	90	11	
12ATH-04	59.13	62.18	3.05	3.12	102	1.56	50	21	
12ATH-04	62.18	65.23	3.05	3.00	98	2.08	69	18	
12ATH-04	65.23	68.28	3.05	3.10	102	2.46	79	10	
12ATH-04	68.28	71.48	3.20	3.36	105	1.81	54	13	
12ATH-04	71.48	74.68	3.20	2.97	93	2.17	73	16	
12ATH-04	74.68	77.57	2.89	3.02	104	1.62	54	19	
12ATH-04	77.57	80.77	3.20	3.05	95	2.48	81	11	
12ATH-04	80.77	83.82	3.05	3.05	100	2.26	74	10	
12ATH-04	83.82	86.87	3.05	2.85	93	2.22	78	7	
12ATH-04	86.87	89.76	2.89	3.09	107	2.50	81	11	
12ATH-04	89.76	92.96	3.20	3.04	95	2.70	89	8	
12ATH-04	92.96	96.01	3.05	3.05	100	1.81	59	17	
12ATH-04	96.01	99.06	3.05	3.05	100	2.81	92	11	
12ATH-04	99.06	102.11	3.05	3.04	100	2.79	92	9	
12ATH-04	102.11	105.31	3.20	2.88	90	2.88	100	5	
12ATH-04	105.31	108.20	2.89	3.14	109	2.80	89	7	
12ATH-04	108.20	111.25	3.05	3.05	100	3.05	100	6	
12ATH-04 EOH									
12ATH-05	1.07	2.59	1.52	1.60	105	0.59	37	12	
12ATH-05	2.59	5.49	2.90	2.91	100	1.00	34	20	
12ATH-05	5.49	8.53	3.04	3.07	101	1.50	49	16	
12ATH-05	8.53	11.13	2.60	2.67	103	0.65	24	27	
12ATH-05	11.13	14.17	3.04	3.26	107	0.51	16	>35	
12ATH-05 EOH									
12ATH-06	1.83	3.51	1.68	1.62	96	0.19	12	12	
12ATH-06	3.51	6.40	2.89	3.17	110	0.95	30	23	
12ATH-06	6.40	9.45	3.05	3.19	105	1.71	54	20	
12ATH-06	9.45	12.50	3.05	2.20	72	1.67	76	27	
12ATH-06	12.50	14.02	1.52	1.59	105	0.67	42	15	
12ATH-06 EOH									
12ATH-07	1.83	2.74	0.91	0.67	74	0.00	0	12	
12ATH-07	2.74	5.79	3.05	3.46	113	1.18	34	>35	
12ATH-07	5.79	7.32	1.53	1.60	105	0.27	17	>35	broken up
12ATH-07	7.32	9.75	2.43	2.50	103	0.94	38	29	
12ATH-07	9.75	12.80	3.05	3.22	106	1.77	55	24	
12ATH-07	12.80	15.85	3.05	3.36	110	1.62	48	29	
12ATH-07	15.85	18.90	3.05	3.24	106	1.14	35	>35	
12ATH-07 EOH									

hole id	sample id	from	to	interval	row	lab cert
12ATH-01	1969301	2.44	3.35	0.91	1	VAN12004945
12ATH-01	1969302	3.35	6.40	3.05	2	VAN12004945
12ATH-01	1969303	6.40	9.45	3.05	3	VAN12004945
12ATH-01	1969304	9.45	9.90	0.45	4	VAN12004945
12ATH-01	1969305	9.90	11.28	1.38	5	VAN12004945
12ATH-01	1969306	11.28	14.33	3.05	6	VAN12004945
12ATH-01	1969307	14.33	17.37	3.04	7	VAN12004945
12ATH-01	1969308	17.37	20.00	2.63	8	VAN12004945
12ATH-01	1969309	20.00	20.30	0.30	9	VAN12004945
12ATH-01	1969310	Blank			10	VAN12004945
12ATH-01	1969311	20.30	23.47	3.17	11	VAN12004945
12ATH-01	1969312	26.80	27.50	0.70	12	VAN12004945
12ATH-01	1969313	Standard 12			13	VAN12004945
12ATH-01	1969314	34.60	37.70	3.10	14	VAN12004945
12ATH-01	1969315	41.45	42.70	1.25	15	VAN12004945
12ATH-01	1969316	47.26	48.70	1.44	16	VAN12004945
12ATH-01	1969317	48.70	50.80	2.10	17	VAN12004945
12ATH-01	1969318	50.80	51.00	0.20	18	VAN12004945
12ATH-01	1969319	53.40	54.20	0.80	19	VAN12004945
12ATH-01	1969320	62.33	63.00	0.67	20	VAN12004945
12ATH-01	1969321	65.53	68.58	3.05	21	VAN12004945
12ATH-01	1969322	68.58	70.75	2.17	22	VAN12004945
12ATH-01	1969323	70.75	71.45	0.70	23	VAN12004945
12ATH-01	1969324	71.45	73.20	1.75	24	VAN12004945
12ATH-01	1969325	76.20	77.99	1.79	25	VAN12004945
12ATH-01	1969326	84.20	85.20	1.00	26	VAN12004945
12ATH-01	1969327	88.70	89.50	0.80	27	VAN12004945
12ATH-01	1969328	92.40	94.40	2.00	28	VAN12004945
12ATH-01	1969329	97.25	98.20	0.95	29	VAN12004945
12ATH-01	1969330	98.20	99.70	1.50	30	VAN12004945
12ATH-01	1969331	99.70	100.60	0.90	31	VAN12004945
12ATH-01	1969332	100.60	102.00	1.40	32	VAN12004945
12ATH-01	1969333	106.50	107.59	1.09	33	VAN12004945
12ATH-01	1969334	standard 12			34	VAN12004945
12ATH-02	1969335	14.00	14.60	0.60	35	VAN12004945
12ATH-02	1969336	17.60	18.20	0.60	36	VAN12004945
12ATH-02	1969337	21.30	23.30	2.00	37	VAN12004945
12ATH-02	1969338	28.00	28.80	0.80	38	VAN12004945
12ATH-02	1969339	44.96	46.25	1.29	39	VAN12004945
12ATH-02	1969340	46.70	47.70	1.00	40	VAN12004945
12ATH-02	1969341	Blank			41	VAN12004945
12ATH-02	1969342	65.30	66.30	1.00	42	VAN12004945
12ATH-02	1969343	70.00	71.00	1.00	43	VAN12004945
12ATH-02	1969344	78.64	81.69	3.05	44	VAN12004945
12ATH-03	1969345	5.94	8.53	2.59	45	VAN12004945
12ATH-03	1969346	12.95	16.15	3.20	46	VAN12004945

hole id	sample id	from	to	interval	row	lab cert
12ATH-03	1969347	28.70	30.94	2.24	47	VAN12004945
12ATH-03	1969348	30.94	34.20	3.26	48	VAN12004945
12ATH-03	1969349	42.06	44.65	2.59	49	VAN12004945
12ATH-03	1969350	48.00	51.50	3.50	50	VAN12004945
12ATH-03	1969351	51.50	54.45	2.95	51	VAN12004945
12ATH-03	1969352	standard 12			52	VAN12004945
12ATH-03	1969353	80.47	83.45	2.98	53	VAN12004945
12ATH-03	1969354	83.45	84.30	0.85	54	VAN12004945
12ATH-03	1969355	84.30	86.80	2.50	55	VAN12004945
12ATH-03	1969356	86.80	86.95	0.15	56	VAN12004945
12ATH-03	1969357	86.95	88.60	1.65	57	VAN12004945
12ATH-03	1969358	88.60	90.83	2.23		VAN12004945
12ATH-03	1969359	93.88	96.30	2.42	58	VAN12004945
12ATH-03	1969360	96.30	98.40	2.10	59	VAN12004945
12ATH-03	1969361	98.40	99.50	1.10	60	VAN12004945
12ATH-03	1969362	99.50	100.3	0.80	61	VAN12004945
12ATH-03	1969363	Blank			62	VAN12004945
12ATH-03	1969364	100.30	101.1	0.80	63	VAN12004945
12ATH-03	1969365	101.10	102.7	1.60	64	VAN12004945
12ATH-03	1969366	106.07	108.5	2.43	65	VAN12004945
12ATH-03	1969367	108.50	108.95	0.45	66	VAN12004945
12ATH-03	1969368	108.95	112.17	3.22	67	VAN12004945
12ATH-03	1969369	112.17	113.65	1.48	68	VAN12004945
12ATH-03	1969370	113.65	114	0.35	69	VAN12004945
12ATH-03	1969371	standard 12			70	VAN12004945
12ATH-03	1969372	118.26	121.31	3.05	71	VAN12004945
12ATH-04	1969373	4.00	5.00	1.00	72	VAN12004945
12ATH-04	1969374	5.00	8.08	3.08	73	VAN12004945
12ATH-04	1969375	11.73	14.63	2.90	74	VAN12004945
12ATH-04	1969376	14.63	16.31	1.68	75	VAN12004945
12ATH-04	1969377	28.35	31.55	3.20	76	VAN12004945
12ATH-04	1969378	43.00	44.00	1.00	77	VAN12004945
12ATH-04	1969379	46.00	46.79	0.79	78	VAN12004945
12ATH-04	1969380	46.79	47.50	0.71	79	VAN12004945
12ATH-04	1969381	47.50	50.30	2.80	80	VAN12004945
12ATH-04	1969382	50.30	50.80	0.50	81	VAN12004945
12ATH-04	1969383	50.80	52.07	1.27	82	VAN12004945
12ATH-04	1969384	52.88	55.93	3.05	83	VAN12004945
12ATH-04	1969385	blank			84	VAN12004945
12ATH-04	1969386	55.93	59.13	3.20	85	VAN12004945
12ATH-04	1969387	59.13	60.30	1.17	86	VAN12004945
12ATH-04	1969388	60.30	61.60	1.30	87	VAN12004945
12ATH-04	1969389	61.60	63.07	1.47	88	VAN12004945
12ATH-04	1969390	63.07	65.23	2.16	89	VAN12004945
12ATH-04	1969391	65.23	68.28	3.05	90	VAN12004945
12ATH-04	1969392	68.28	71.48	3.20	91	VAN12004945

hole id	sample id	from	to	interval	row	lab cert
12ATH-04	1969393	74.68	77.58	2.90	92	VAN12004945
12ATH-04	1969394	80.77	82.25	1.48	93	VAN12004945
12ATH-04	1969395	82.25	83.82	1.57	94	VAN12004945
12ATH-04	1969396	83.82	86.87	3.05	95	VAN12004945
12ATH-04	1969397	standard 12			96	VAN12004945
12ATH-04	1969398	91.40	92.10	0.70	97	VAN12004945
12ATH-04	1969399	93.60	96.40	2.80	98	VAN12004945
12ATH-04	1969400	99.06	102.11	3.05	99	VAN12004945
12ATH-04	209301	105.31	108.20	2.89	100	VAN12004945
12ATH-04	209302	108.20	110.20	2.00	101	VAN12004945
12ATH-04	209303	110.20	111.25	1.05	102	VAN12004945
12ATH-05	209304	2.59	5.49	2.90	103	VAN12004945
12ATH-05	209305	5.49	6.50	1.01	104	VAN12004945
12ATH-05	209306	6.50	7.06	0.56	105	VAN12004945
12ATH-05	209307	7.06	8.53	1.47	106	VAN12004945
12ATH-05	209308	8.53	11.13	2.60	107	VAN12004945
12ATH-05	209309	11.13	14.17	3.04	108	VAN12004945
12ATH-06	209310	3.51	6.40	2.89	109	VAN12004945
12ATH-06	209311	6.40	9.45	3.05	110	VAN12004945
12ATH-06	209312	9.45	11.70	2.25	111	VAN12004945
12ATH-06	209313	11.70	12.70	1.00	112	VAN12004945
12ATH-06	209314	12.70	14.02	1.32	113	VAN12004945
12ATH-06	209315	standard 11A			114	VAN12004945
12ATH-07	209316	2.74	5.79	3.05	115	VAN12004945
12ATH-07	209317	blank			116	VAN12004945
12ATH-07	209318	5.79	7.20	1.41	117	VAN12004945
12ATH-07	209319	7.20	8.50	1.30	118	VAN12004945
12ATH-07	209320	8.50	9.75	1.25	119	VAN12004945
12ATH-07	209321	9.75	12.80	3.05	120	VAN12004945
12ATH-07	209322	12.80	13.30	0.50	121	VAN12004945
12ATH-07	209323	13.30	15.65	2.35	122	VAN12004945
12ATH-07	209324	15.65	16.55	0.90	123	VAN12004945
12ATH-07	209325	16.55	17.50	0.95	124	VAN12004945
12ATH-07	209326	17.50	18.90	1.40	125	VAN12004945

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

STANDARD REFERENCE MATERIAL: CDN-CM-11A

Recommended values and the "Between Lab" Two Standard Deviations

Gold	***1.014 g/t ± 0.106 g/t***	***Certified value***
Copper	***0.332 % ± 0.012 %***	***Certified value***
Molybdenum	***0.038 % ± 0.004 %***	***Certified value***

Note: Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are provisional; RSD's over 15% are indicated. Provisional and indicated values cannot be used to monitor accuracy with a high degree of certainty.

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: May 10, 2011

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-CM-11A was prepared using a North American calc-alkalic copper-gold-molybdenum porphyry ore. It is derived from altered granodiorite, mafic to intermediate volcanic and volcaniclastic sedimentary rocks. Mineralization is principally pyrite, chalcopyrite and molybdenite that occurs in veins, stockworks and disseminations. 705 kg of this ore was blended with 8 kg of a Cu-Au-Mo concentrate.

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying.

Approximate chemical composition (by whole rock analysis) is as follows:

	Percent			Percent
SiO2	74.1		MgO	1.3
Al2O3	9.8		K2O	1.1
Fe2O3	5.3		TiO2	0.4
CaO	2.3		LOI	1.7
Na2O	2.7		S	0.4
C	0.1			

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

STANDARD REFERENCE MATERIAL: CDN-CM-12

Recommended values and the "Between Lab" Two Standard Deviations

Gold: ***0.686 ± 0.072 g/t***
Copper: ***0.917 ± 0.044 %***
Molybdenum: ***0.112 ± 0.012 %***

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: January 31, 2011

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-CM-12 was prepared using a North American calc-alkalic copper-gold-molybdenum porphyry ore. It is derived from altered granodiorite, mafic to intermediate volcanic and volcaniclastic sedimentary rocks. Mineralization is principally pyrite, chalcopyrite and molybdenite that occurs in veins, stockworks and disseminations. 710 kg of this ore was blended with 20 kg of a Cu-Au-Mo concentrate.

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying.

Approximate chemical composition (by whole rock analysis) is as follows:

	Percent			Percent
SiO2	61.6		MgO	2.5
Al2O3	14.1		K2O	4.2
Fe2O3	7.9		TiO2	0.6
CaO	2.4		LOI	3.1
Na2O	2.1		S	2.0
C	0.3			

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

Results from round-robin assaying are displayed on the following page.

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Hellix Ventures Inc.**
125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Submitted By: Edis Findla
Receiving Lab: Canada-Vancouver
Received: October 18, 2012
Report Date: October 27, 2012
Page: 1 of 6

CERTIFICATE OF ANALYSIS VAN12004945.1

CLIENT JOB INFORMATION

Project: Athabasca
Shipment ID: 12Hellix Drill
P.O. Number
Number of Samples: 127

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	121	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	127	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

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.

ADDITIONAL COMMENTS

Invoice To: Hellix Ventures Inc.
125A - 1030 Denman Street
Vancouver BC V6G 2M6
Canada

CC: Perry Grunenberg

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.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Hellix Ventures Inc.**
125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Project: Athabasca
Report Date: October 27, 2012

CERTIFICATE OF ANALYSIS VAN12004945.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
G1	Prep Blank	<0.01	<0.1	1.9	3.5	54	<0.1	4.3	5.1	631	2.07	<0.5	<0.5	5.4	66	<0.1	<0.1	0.1	37	0.50	0.087
G1	Prep Blank	<0.01	<0.1	1.9	3.4	48	<0.1	3.8	4.6	580	1.94	<0.5	<0.5	5.4	62	<0.1	<0.1	0.1	35	0.45	0.077
1969301	Drill Core	1.63	0.5	13.7	19.5	105	0.1	2.7	3.5	602	2.01	2.6	3.4	5.6	28	2.9	<0.1	0.2	36	0.53	0.084
1969302	Drill Core	5.44	0.6	13.0	73.9	124	0.2	2.4	3.8	632	2.11	2.2	<0.5	5.4	30	2.7	<0.1	0.3	31	0.51	0.080
1969303	Drill Core	4.86	0.8	10.6	7.5	57	0.1	2.6	3.6	543	2.10	1.6	<0.5	5.0	35	0.7	<0.1	0.3	37	1.00	0.074
1969304	Drill Core	0.72	0.9	13.2	21.7	212	0.2	2.4	4.7	689	2.32	6.8	22.6	4.9	20	6.4	<0.1	0.2	22	0.28	0.069
1969305	Drill Core	2.27	0.2	3.8	10.9	134	<0.1	2.3	3.7	496	1.89	0.8	<0.5	4.1	49	3.1	<0.1	<0.1	25	0.79	0.075
1969306	Drill Core	5.44	0.1	3.0	4.9	52	<0.1	2.7	3.6	450	1.92	0.7	<0.5	4.1	44	<0.1	<0.1	0.2	29	0.81	0.072
1969307	Drill Core	5.21	1.3	6.7	13.9	77	0.1	2.3	4.0	540	2.04	2.2	4.0	4.5	52	1.5	<0.1	0.2	27	1.10	0.080
1969308	Drill Core	5.11	0.2	2.7	4.6	49	<0.1	2.3	3.6	421	1.89	0.6	<0.5	4.4	37	<0.1	<0.1	<0.1	28	0.65	0.071
1969309	Drill Core	0.61	2.6	13.9	8.5	40	0.1	1.5	2.2	216	1.59	2.2	0.9	2.9	22	1.0	<0.1	0.1	20	0.22	0.041
1969310	Rock Chip	0.41	<0.1	2.6	3.0	45	<0.1	4.1	4.5	574	1.92	<0.5	<0.5	4.8	70	<0.1	<0.1	<0.1	35	0.66	0.076
1969311	Drill Core	5.39	0.3	3.5	7.2	66	<0.1	2.5	3.7	525	2.02	0.6	18.6	4.4	56	0.9	<0.1	<0.1	28	0.66	0.070
1969312	Drill Core	1.33	0.3	3.5	404.7	118	1.8	2.3	4.1	573	2.20	5.1	3.3	4.8	50	3.3	<0.1	4.2	30	0.40	0.073
1969313	Rock Pulp	0.05	1101	8861	43.8	154	3.7	37.6	19.6	498	4.27	32.2	571.7	1.4	41	0.1	5.7	1.4	97	0.98	0.080
1969314	Drill Core	5.31	0.8	4.5	5.0	53	<0.1	2.3	3.5	453	1.89	0.7	6.9	4.3	49	0.7	<0.1	0.1	28	1.02	0.069
1969315	Drill Core	2.29	0.3	4.4	87.8	260	0.2	2.2	3.8	557	1.99	1.0	4.4	4.8	66	6.7	<0.1	0.3	26	1.03	0.079
1969316	Drill Core	2.56	0.6	8.7	19.1	74	0.1	2.4	3.9	626	1.96	2.4	3.3	5.7	67	1.2	<0.1	0.2	25	1.84	0.072
1969317	Drill Core	3.96	0.7	9.2	10.8	82	0.2	3.6	5.2	653	2.38	4.2	5.2	4.0	59	1.8	<0.1	0.5	41	1.81	0.081
1969318	Drill Core	2.17	3.4	7.1	10.1	55	0.1	2.5	3.8	491	1.94	1.8	1.0	4.6	53	0.4	<0.1	0.3	25	1.25	0.068
1969319	Drill Core	1.73	0.3	7.1	60.7	82	0.2	2.3	3.3	666	1.95	2.3	<0.5	5.8	159	1.4	<0.1	0.3	22	1.73	0.075
1969320	Drill Core	1.33	0.1	1.2	5.3	39	<0.1	1.9	2.7	394	1.51	<0.5	<0.5	5.9	41	<0.1	<0.1	<0.1	23	0.86	0.066
1969321	Drill Core	5.57	0.1	1.6	47.6	79	0.2	2.6	4.2	524	2.11	0.9	3.1	4.3	64	0.9	<0.1	0.4	28	1.22	0.069
1969322	Drill Core	3.74	<0.1	3.2	11.4	63	<0.1	2.3	3.8	512	2.03	0.5	<0.5	4.3	55	0.4	<0.1	<0.1	24	1.39	0.071
1969323	Drill Core	1.44	0.5	5.4	49.9	80	0.2	1.7	3.1	696	1.53	4.5	0.8	4.3	21	4.5	<0.1	0.3	7	0.83	0.050
1969324	Drill Core	3.63	<0.1	1.6	4.6	51	<0.1	2.2	3.7	457	2.06	0.8	<0.5	4.3	55	<0.1	<0.1	<0.1	29	1.02	0.073
1969325	Drill Core	3.29	0.2	3.8	5.3	85	<0.1	2.1	3.6	586	1.92	1.1	<0.5	4.3	64	1.2	<0.1	<0.1	24	1.45	0.070
1969326	Drill Core	1.72	0.1	2.0	40.4	101	0.5	2.0	3.7	625	2.01	1.1	0.8	3.9	61	2.1	<0.1	0.8	26	1.41	0.072
1969327	Drill Core	1.52	0.4	3.6	28.9	82	0.6	1.8	3.3	584	1.67	8.9	3.3	4.7	120	1.7	<0.1	0.9	15	2.03	0.066
1969328	Drill Core	3.87	0.3	2.5	45.2	216	0.3	2.1	4.3	585	2.11	3.1	8.7	4.6	73	5.8	<0.1	0.4	25	1.82	0.074

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Project: Athabasca
Report Date: October 27, 2012

CERTIFICATE OF ANALYSIS VAN12004945.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		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
MDL		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
G1	Prep Blank	10	9	0.63	277	0.136	4	1.13	0.106	0.56	<0.1	<0.01	2.6	0.3	<0.05	6	<0.5	<0.2
G1	Prep Blank	10	9	0.58	247	0.123	2	1.03	0.090	0.51	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
1969301	Drill Core	19	6	0.58	43	0.040	2	1.20	0.057	0.19	0.7	<0.01	3.1	<0.1	0.11	6	<0.5	<0.2
1969302	Drill Core	16	7	0.55	43	0.058	2	1.11	0.049	0.20	0.5	<0.01	2.7	<0.1	0.06	5	<0.5	<0.2
1969303	Drill Core	16	7	0.60	33	0.078	2	1.13	0.067	0.18	0.5	<0.01	3.4	<0.1	0.15	7	<0.5	<0.2
1969304	Drill Core	14	6	0.40	39	0.037	1	1.00	0.038	0.18	2.1	<0.01	2.0	<0.1	0.06	4	<0.5	<0.2
1969305	Drill Core	13	5	0.55	34	0.076	<1	1.09	0.076	0.16	0.2	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
1969306	Drill Core	14	8	0.56	27	0.079	<1	1.18	0.097	0.13	0.3	<0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
1969307	Drill Core	14	6	0.54	47	0.079	<1	1.23	0.086	0.29	0.5	<0.01	2.7	0.1	0.08	6	<0.5	<0.2
1969308	Drill Core	13	7	0.52	39	0.094	<1	1.09	0.086	0.33	0.1	<0.01	2.6	0.2	<0.05	5	<0.5	<0.2
1969309	Drill Core	9	4	0.31	24	0.058	<1	0.71	0.056	0.11	0.3	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
1969310	Rock Chip	9	6	0.64	216	0.128	<1	1.06	0.090	0.48	<0.1	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
1969311	Drill Core	15	7	0.55	39	0.078	<1	1.28	0.079	0.17	0.3	<0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
1969312	Drill Core	15	6	0.51	37	0.057	<1	1.29	0.049	0.17	1.2	<0.01	2.3	<0.1	<0.05	5	<0.5	0.2
1969313	Rock Pulp	7	60	1.04	78	0.137	5	1.72	0.109	0.54	13.6	0.11	9.1	0.4	1.96	6	5.2	0.5
1969314	Drill Core	14	7	0.55	33	0.079	<1	1.18	0.084	0.14	0.4	<0.01	2.6	0.2	<0.05	6	<0.5	<0.2
1969315	Drill Core	14	6	0.54	27	0.077	<1	1.73	0.035	0.16	0.8	<0.01	1.8	<0.1	<0.05	7	<0.5	<0.2
1969316	Drill Core	14	6	0.50	41	0.071	<1	1.39	0.069	0.26	1.1	<0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
1969317	Drill Core	11	11	0.74	37	0.080	<1	1.38	0.053	0.15	0.8	<0.01	3.8	<0.1	<0.05	7	<0.5	<0.2
1969318	Drill Core	13	6	0.48	37	0.065	1	1.03	0.049	0.18	0.3	<0.01	2.4	<0.1	0.15	5	<0.5	<0.2
1969319	Drill Core	14	5	0.46	39	0.050	<1	1.27	0.045	0.24	1.1	<0.01	2.6	0.1	<0.05	5	<0.5	<0.2
1969320	Drill Core	13	6	0.41	29	0.088	<1	0.90	0.083	0.17	0.2	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
1969321	Drill Core	14	7	0.61	37	0.103	<1	1.44	0.098	0.15	0.9	<0.01	3.2	<0.1	<0.05	7	<0.5	<0.2
1969322	Drill Core	13	7	0.57	35	0.079	<1	1.30	0.061	0.13	1.5	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
1969323	Drill Core	8	2	0.28	37	0.017	<1	0.71	0.026	0.21	1.2	<0.01	1.2	<0.1	0.16	2	<0.5	<0.2
1969324	Drill Core	15	7	0.58	35	0.096	<1	1.27	0.076	0.13	0.4	<0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
1969325	Drill Core	13	5	0.52	41	0.084	<1	1.09	0.051	0.24	0.5	<0.01	2.0	0.1	0.08	5	<0.5	<0.2
1969326	Drill Core	11	6	0.55	29	0.072	<1	1.24	0.060	0.15	0.4	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
1969327	Drill Core	11	3	0.38	62	0.044	1	0.82	0.033	0.37	0.3	<0.01	1.5	0.2	0.31	3	<0.5	<0.2
1969328	Drill Core	13	6	0.54	41	0.066	<1	1.15	0.054	0.21	0.4	<0.01	2.4	<0.1	0.19	5	<0.5	<0.2

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Project: Athabasca
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CERTIFICATE OF ANALYSIS VAN12004945.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1969329	Drill Core	2.00	3.6	22.7	540.1	596	2.4	2.0	3.5	1192	2.91	24.4	62.6	4.5	100	15.2	<0.1	3.8	8	1.52	0.069
1969330	Drill Core	1.97	0.3	4.5	15.8	137	0.3	2.2	3.9	755	1.99	2.8	39.5	5.1	45	7.1	<0.1	0.3	16	1.19	0.071
1969331	Drill Core	2.52	<0.1	2.0	25.1	97	0.1	2.2	3.5	671	1.90	1.0	2.7	4.6	58	1.7	<0.1	0.3	19	1.95	0.068
1969332	Drill Core	2.59	<0.1	0.9	5.9	79	<0.1	2.3	3.6	678	2.00	0.6	3.2	4.0	53	1.1	<0.1	<0.1	28	1.43	0.070
1969333	Drill Core	2.08	<0.1	3.3	6.6	66	<0.1	2.1	3.9	540	1.95	1.2	<0.5	4.6	61	1.2	<0.1	<0.1	23	1.39	0.075
1969334	Rock Pulp	0.05	1018	8991	45.7	153	3.9	38.5	20.3	474	4.32	29.7	555.3	1.5	39	1.6	6.5	1.3	100	0.98	0.083
1969335	Drill Core	0.93	1.9	15.9	650.7	808	1.8	1.4	3.0	988	2.47	4.0	3.8	3.1	67	24.8	<0.1	1.7	10	1.15	0.041
1969336	Drill Core	1.22	1.0	8.3	111.7	199	0.3	2.4	3.5	807	1.94	1.6	6.5	4.8	46	7.6	<0.1	0.2	18	1.38	0.070
1969337	Drill Core	3.80	4.5	5.5	11.1	56	<0.1	1.9	3.7	774	1.80	1.2	20.9	4.8	74	1.5	<0.1	<0.1	23	2.04	0.069
1969338	Drill Core	1.67	0.2	7.0	34.6	98	0.1	2.4	4.3	633	2.19	1.3	1.1	4.2	43	2.6	<0.1	<0.1	30	1.08	0.070
1969339	Drill Core	1.92	0.7	9.4	269.8	632	1.8	1.7	3.1	1033	2.25	6.9	6.3	4.3	117	21.8	<0.1	2.6	6	2.42	0.053
1969340	Drill Core	1.94	0.4	12.3	10.4	39	0.3	2.3	4.1	411	1.79	1.1	1.6	4.0	80	0.2	<0.1	0.7	21	1.92	0.058
1969341	Rock Chip	0.35	<0.1	2.9	3.6	47	<0.1	3.4	4.4	547	1.91	0.7	0.7	5.1	66	<0.1	<0.1	<0.1	34	0.69	0.074
1969342	Drill Core	1.82	0.4	3.0	241.4	63	0.5	1.6	3.9	500	1.95	1.5	8.8	3.5	59	1.1	<0.1	0.7	26	1.39	0.066
1969343	Drill Core	1.79	0.2	2.4	4.5	65	<0.1	1.9	3.4	393	1.75	1.0	<0.5	3.7	43	0.5	<0.1	<0.1	24	0.83	0.067
1969344	Drill Core	5.43	<0.1	1.9	13.2	62	<0.1	2.6	4.4	532	2.16	1.1	1.7	4.2	64	0.6	<0.1	<0.1	30	1.36	0.069
1969345	Drill Core	4.87	<0.1	103.5	2.0	48	0.1	140.4	28.3	837	3.53	1.1	1.2	0.2	108	<0.1	0.3	<0.1	117	4.36	0.098
1969346	Drill Core	6.18	<0.1	108.5	1.4	35	0.1	121.6	21.5	497	2.83	0.6	2.5	0.2	80	<0.1	0.4	<0.1	84	2.38	0.102
1969347	Drill Core	3.74	0.2	12.6	4.3	37	<0.1	3.2	4.0	385	1.70	1.9	4.7	5.0	57	<0.1	<0.1	<0.1	21	1.68	0.071
1969348	Drill Core	6.11	<0.1	11.1	5.2	41	<0.1	1.5	3.2	402	1.63	1.0	<0.5	5.2	58	0.2	<0.1	<0.1	17	1.53	0.068
1969349	Drill Core	4.22	<0.1	95.6	1.9	47	0.2	19.4	19.4	766	3.73	2.6	6.2	0.8	64	<0.1	0.2	<0.1	117	2.49	0.120
1969350	Drill Core	6.24	1.0	17.8	1.9	66	<0.1	5.0	16.5	789	4.18	1.0	3.6	1.0	71	<0.1	0.1	<0.1	98	2.12	0.099
1969351	Drill Core	5.04	0.1	8.5	4.9	68	<0.1	1.5	5.8	637	2.03	0.8	5.1	0.7	66	<0.1	<0.1	<0.1	40	1.35	0.110
1969352	Rock Pulp	0.04	1050	8853	43.7	149	4.1	36.9	20.3	518	4.34	30.7	603.6	1.5	42	1.0	5.7	1.2	101	1.00	0.076
1969353	Drill Core	5.63	0.5	60.2	2.9	76	0.1	21.7	24.1	887	4.36	1.0	1.4	0.6	68	0.1	0.2	<0.1	134	2.25	0.125
1969354	Drill Core	1.46	0.4	16.5	4.3	9	<0.1	0.8	2.6	126	0.68	1.1	5.5	5.9	18	<0.1	<0.1	<0.1	13	0.91	0.009
1969355	Drill Core	4.78	0.4	130.6	2.9	59	0.3	14.1	26.4	767	4.82	1.0	1.9	0.6	58	<0.1	<0.1	<0.1	183	2.01	0.126
1969356	Drill Core	0.24	2.5	9.9	5.1	9	<0.1	4.4	3.6	156	0.61	5.8	10.7	4.1	41	<0.1	<0.1	0.2	9	1.33	0.004
1969357	Drill Core	3.15	4.5	61.1	24.5	64	0.3	44.3	19.5	676	3.26	2.6	11.5	4.3	141	0.6	<0.1	0.2	111	3.08	0.087
1969358	Drill Core	4.02	1.4	59.9	29.2	107	0.2	165.3	33.0	820	4.18	<0.5	1.8	6.9	930	0.5	<0.1	<0.1	88	4.07	0.313

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	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
	MDL	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
1969329	Drill Core	8	2	0.26	51	0.013	2	0.88	0.013	0.33	>100	<0.01	1.4	0.1	1.07	3	<0.5	<0.2
1969330	Drill Core	15	5	0.42	52	0.031	<1	1.16	0.036	0.27	14.0	<0.01	1.8	0.1	<0.05	4	<0.5	<0.2
1969331	Drill Core	12	4	0.44	38	0.072	<1	1.25	0.045	0.26	51.0	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1969332	Drill Core	11	6	0.56	29	0.064	1	1.16	0.050	0.16	1.0	<0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
1969333	Drill Core	11	5	0.51	36	0.057	1	1.10	0.049	0.18	1.5	<0.01	2.2	<0.1	0.07	5	<0.5	<0.2
1969334	Rock Pulp	7	61	1.03	72	0.143	7	1.68	0.103	0.54	13.5	0.13	8.0	0.4	1.88	6	4.7	0.7
1969335	Drill Core	5	3	0.43	32	0.018	<1	0.85	0.010	0.16	1.3	0.01	1.6	<0.1	0.50	3	<0.5	<0.2
1969336	Drill Core	10	5	0.40	40	0.044	<1	1.07	0.038	0.28	1.1	<0.01	2.3	<0.1	0.24	4	<0.5	<0.2
1969337	Drill Core	12	7	0.50	45	0.052	<1	1.27	0.085	0.26	1.0	<0.01	3.8	<0.1	0.11	5	<0.5	<0.2
1969338	Drill Core	13	7	0.58	23	0.090	<1	1.37	0.044	0.09	1.0	<0.01	2.7	<0.1	0.07	7	<0.5	<0.2
1969339	Drill Core	5	3	0.35	41	0.012	1	0.89	0.027	0.25	1.4	<0.01	1.6	<0.1	0.96	3	<0.5	<0.2
1969340	Drill Core	11	5	0.42	41	0.058	<1	0.95	0.062	0.17	0.4	<0.01	2.4	<0.1	0.40	4	<0.5	<0.2
1969341	Rock Chip	9	7	0.64	210	0.126	<1	0.99	0.075	0.44	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2
1969342	Drill Core	12	7	0.52	39	0.073	<1	1.08	0.048	0.18	0.4	<0.01	2.0	<0.1	0.19	6	<0.5	<0.2
1969343	Drill Core	11	5	0.49	32	0.095	<1	1.00	0.065	0.21	0.6	<0.01	2.0	<0.1	0.05	5	<0.5	<0.2
1969344	Drill Core	14	8	0.62	37	0.081	1	1.39	0.079	0.15	0.3	<0.01	3.0	<0.1	<0.05	6	<0.5	<0.2
1969345	Drill Core	<1	241	2.81	14	0.179	<1	2.57	0.056	0.09	0.5	<0.01	6.2	<0.1	<0.05	8	<0.5	<0.2
1969346	Drill Core	<1	197	2.23	18	0.174	<1	2.04	0.073	0.10	0.2	<0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
1969347	Drill Core	16	5	0.53	28	0.036	<1	1.12	0.065	0.14	0.1	0.01	1.8	<0.1	0.12	5	<0.5	<0.2
1969348	Drill Core	17	5	0.46	50	0.044	2	1.13	0.078	0.20	0.2	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
1969349	Drill Core	2	34	1.49	20	0.126	<1	2.16	0.094	0.11	0.3	<0.01	8.3	<0.1	<0.05	6	<0.5	<0.2
1969350	Drill Core	3	6	1.38	24	0.142	<1	2.49	0.081	0.11	0.4	<0.01	5.3	<0.1	0.09	7	<0.5	<0.2
1969351	Drill Core	3	5	0.78	28	0.084	<1	1.25	0.068	0.11	0.2	<0.01	2.3	<0.1	0.10	6	<0.5	<0.2
1969352	Rock Pulp	7	64	1.06	73	0.144	6	1.76	0.111	0.55	14.0	0.13	8.7	0.4	1.97	6	5.3	0.8
1969353	Drill Core	2	38	2.07	13	0.198	<1	2.36	0.064	0.09	0.5	<0.01	7.9	<0.1	0.19	8	<0.5	<0.2
1969354	Drill Core	5	1	0.14	15	0.022	<1	0.32	0.060	0.11	0.3	<0.01	0.9	<0.1	0.18	2	<0.5	<0.2
1969355	Drill Core	2	20	2.09	155	0.217	<1	2.67	0.108	0.95	0.2	<0.01	10.1	0.2	0.23	8	<0.5	<0.2
1969356	Drill Core	2	9	0.19	23	0.012	1	0.30	0.071	0.11	0.4	<0.01	0.9	<0.1	0.11	1	<0.5	<0.2
1969357	Drill Core	6	118	1.90	133	0.146	1	2.07	0.100	1.07	0.5	<0.01	7.5	0.5	0.16	7	<0.5	<0.2
1969358	Drill Core	95	311	3.86	2417	0.218	1	2.45	0.074	2.73	<0.1	<0.01	2.9	0.5	0.12	10	<0.5	<0.2

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Project: Athabasca
Report Date: October 27, 2012

CERTIFICATE OF ANALYSIS VAN12004945.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1969359	Drill Core	4.27	0.3	139.7	6.1	64	0.3	18.1	29.9	753	4.59	2.7	3.6	0.7	59	0.1	<0.1	<0.1	161	2.06	0.123
1969360	Drill Core	3.38	0.2	33.1	6.7	17	<0.1	7.0	5.0	237	1.15	0.7	0.5	5.9	32	<0.1	<0.1	<0.1	26	1.19	0.023
1969361	Drill Core	1.86	<0.1	30.9	6.3	40	0.1	6.2	4.6	387	1.81	<0.5	2.2	4.8	42	<0.1	<0.1	<0.1	34	1.46	0.056
1969362	Drill Core	1.66	0.5	229.0	5.5	80	0.5	23.3	42.6	931	5.80	3.3	2.3	0.8	89	0.3	<0.1	0.2	218	3.09	0.121
1969363	Rock Chip	0.30	0.1	3.4	3.1	46	<0.1	3.8	4.4	572	2.02	<0.5	2.0	5.1	69	<0.1	<0.1	<0.1	36	0.68	0.074
1969364	Drill Core	1.15	0.2	14.2	5.2	21	0.1	10.0	4.9	508	1.44	1.1	<0.5	6.3	91	0.1	<0.1	<0.1	28	2.39	0.044
1969365	Drill Core	2.73	0.6	158.8	3.5	56	0.2	25.1	34.2	720	4.29	4.7	3.4	0.7	91	0.1	<0.1	0.1	145	2.66	0.121
1969366	Drill Core	4.06	0.2	148.8	3.1	53	0.2	11.1	27.6	729	5.60	1.3	0.7	0.5	74	0.1	<0.1	<0.1	173	2.77	0.121
1969367	Drill Core	0.77	0.2	38.9	7.8	16	0.1	8.8	5.8	269	1.17	0.6	0.9	6.4	38	0.2	<0.1	0.1	28	2.15	0.016
1969368	Drill Core	5.93	0.4	260.6	11.9	54	0.7	30.1	24.7	740	4.76	0.7	6.1	0.6	104	0.2	<0.1	0.1	154	3.55	0.103
1969369	Drill Core	2.94	0.2	288.1	3.3	53	0.5	44.1	23.2	803	5.15	0.8	4.9	0.9	62	0.2	<0.1	0.2	173	2.48	0.139
1969370	Drill Core	0.70	0.2	11.4	8.5	5	<0.1	2.0	1.8	97	0.43	0.7	<0.5	2.9	20	<0.1	<0.1	0.1	8	0.88	0.004
1969371	Rock Pulp	0.05	1133	9030	41.1	158	3.9	36.7	19.9	531	4.38	33.8	634.9	1.4	43	0.5	6.6	1.4	99	0.98	0.084
1969372	Drill Core	5.84	1.9	116.4	2.7	32	0.1	38.7	18.2	535	2.67	1.5	2.5	0.6	63	0.1	<0.1	0.1	82	2.56	0.117
1969373	Drill Core	1.87	0.6	13.0	1.2	47	<0.1	4.2	18.2	668	2.70	3.0	3.5	0.7	68	<0.1	0.2	0.1	66	2.31	0.103
1969374	Drill Core	5.85	0.3	27.8	1.5	76	0.1	4.7	16.6	959	4.06	2.6	5.2	1.1	62	<0.1	<0.1	<0.1	96	2.21	0.103
1969375	Drill Core	5.21	0.5	18.2	3.1	81	<0.1	5.7	12.1	967	3.32	1.2	3.1	0.7	105	<0.1	0.2	<0.1	79	1.99	0.129
1969376	Drill Core	2.74	0.4	81.2	3.4	71	0.3	3.5	16.0	802	4.04	2.6	2.3	0.6	60	<0.1	0.2	0.2	81	1.41	0.145
1969377	Drill Core	6.04	0.2	104.0	2.9	47	0.1	47.5	24.1	543	3.78	3.0	1.7	0.4	48	<0.1	0.1	<0.1	112	1.84	0.127
1969378	Drill Core	2.05	0.2	81.9	3.0	51	0.1	34.3	22.6	579	3.14	1.5	<0.5	1.2	45	<0.1	<0.1	<0.1	91	1.88	0.120
1969379	Drill Core	1.54	0.3	60.2	11.4	80	0.1	75.2	23.4	959	4.33	1.5	<0.5	1.8	113	0.2	<0.1	<0.1	143	3.81	0.104
1969380	Drill Core	1.52	0.3	158.9	3.7	65	0.2	28.2	23.6	792	4.25	1.9	<0.5	1.6	69	0.2	<0.1	<0.1	145	2.68	0.125
1969381	Drill Core	5.53	0.6	133.7	4.7	67	0.2	76.5	26.7	777	4.11	1.1	1.6	0.6	75	0.1	<0.1	<0.1	142	2.67	0.125
1969382	Drill Core	0.86	0.6	25.8	123.8	88	0.1	4.2	5.9	474	1.51	2.3	<0.5	4.3	39	3.7	<0.1	0.2	24	1.40	0.056
1969383	Drill Core	2.41	0.2	80.6	6.6	59	0.2	21.2	16.2	631	3.32	2.0	46.6	2.2	67	0.6	<0.1	<0.1	111	2.32	0.086
1969384	Drill Core	4.92	0.4	10.2	5.7	116	0.1	4.7	7.0	775	3.37	0.8	1.2	4.1	52	1.0	<0.1	0.2	57	1.50	0.130
1969385	Rock Chip	0.35	<0.1	1.5	2.8	44	<0.1	3.6	4.2	572	1.91	<0.5	<0.5	4.6	71	<0.1	<0.1	<0.1	35	0.59	0.074
1969386	Drill Core	5.23	5.0	3.5	6.0	60	<0.1	2.4	3.9	518	2.13	1.5	74.4	3.6	79	0.4	<0.1	<0.1	28	1.63	0.077
1969387	Drill Core	2.58	0.3	3.2	4.2	55	<0.1	2.6	3.9	514	2.14	1.2	2.7	3.6	58	<0.1	<0.1	<0.1	31	1.22	0.081
1969388	Drill Core	2.52	1.1	11.0	421.1	682	1.8	3.4	10.9	1223	3.65	29.0	2579	3.8	166	26.5	0.1	1.6	11	2.81	0.070

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	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
	MDL	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
1969359	Drill Core	2	34	1.96	39	0.202	<1	2.35	0.117	0.23	0.3	<0.01	8.6	<0.1	0.42	8	<0.5	<0.2
1969360	Drill Core	5	20	0.41	13	0.043	<1	0.57	0.048	0.10	0.3	<0.01	2.6	<0.1	0.10	3	<0.5	<0.2
1969361	Drill Core	11	18	0.56	22	0.078	<1	0.89	0.071	0.12	0.2	<0.01	3.6	<0.1	0.14	5	<0.5	<0.2
1969362	Drill Core	2	41	2.66	18	0.218	<1	2.80	0.069	0.16	0.7	<0.01	15.2	<0.1	0.53	10	<0.5	<0.2
1969363	Rock Chip	10	8	0.66	218	0.132	1	1.05	0.095	0.47	<0.1	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
1969364	Drill Core	8	30	0.79	17	0.054	1	0.85	0.047	0.12	1.2	<0.01	4.1	<0.1	0.07	5	<0.5	<0.2
1969365	Drill Core	2	60	1.78	46	0.177	<1	2.21	0.106	0.30	0.4	<0.01	9.3	<0.1	0.27	8	1.2	<0.2
1969366	Drill Core	1	24	1.97	12	0.169	<1	2.63	0.084	0.14	0.4	<0.01	10.7	<0.1	0.38	9	<0.5	<0.2
1969367	Drill Core	3	44	0.63	6	0.042	<1	0.69	0.058	0.09	0.4	<0.01	3.7	<0.1	0.09	3	<0.5	<0.2
1969368	Drill Core	2	119	2.36	29	0.164	<1	2.54	0.068	0.32	0.5	<0.01	13.2	<0.1	0.22	9	<0.5	<0.2
1969369	Drill Core	2	129	2.38	47	0.169	3	2.75	0.070	0.35	0.6	<0.01	11.2	<0.1	0.06	9	<0.5	<0.2
1969370	Drill Core	3	6	0.11	14	0.018	4	0.24	0.044	0.11	0.2	<0.01	0.8	<0.1	<0.05	1	<0.5	<0.2
1969371	Rock Pulp	7	60	1.05	87	0.133	7	1.72	0.103	0.54	14.8	0.11	9.3	0.4	2.01	6	5.0	0.6
1969372	Drill Core	2	90	1.28	28	0.119	2	1.37	0.094	0.29	0.2	<0.01	5.7	0.1	0.14	5	<0.5	<0.2
1969373	Drill Core	2	5	0.85	25	0.135	2	1.57	0.052	0.09	0.4	<0.01	3.0	<0.1	0.35	5	<0.5	<0.2
1969374	Drill Core	2	5	1.30	41	0.149	2	2.16	0.079	0.15	0.6	<0.01	5.2	<0.1	0.23	7	<0.5	<0.2
1969375	Drill Core	3	12	1.31	24	0.121	2	1.92	0.078	0.08	0.7	<0.01	5.7	<0.1	0.07	8	<0.5	<0.2
1969376	Drill Core	2	2	1.19	18	0.127	2	1.57	0.064	0.08	0.7	<0.01	4.2	<0.1	0.28	7	<0.5	<0.2
1969377	Drill Core	1	58	1.72	55	0.162	2	2.12	0.114	0.35	0.3	<0.01	6.9	<0.1	0.32	6	<0.5	<0.2
1969378	Drill Core	3	65	1.51	122	0.129	<1	1.70	0.108	0.64	0.2	<0.01	5.7	0.2	0.19	6	<0.5	<0.2
1969379	Drill Core	4	175	2.54	83	0.141	<1	2.63	0.072	0.46	0.3	<0.01	15.3	0.2	0.11	9	<0.5	<0.2
1969380	Drill Core	4	51	2.00	141	0.184	2	2.37	0.096	0.71	0.2	<0.01	10.5	0.2	0.24	9	<0.5	<0.2
1969381	Drill Core	2	155	2.56	128	0.197	1	2.69	0.093	0.84	0.3	0.01	11.5	0.3	0.16	8	<0.5	<0.2
1969382	Drill Core	9	7	0.46	32	0.046	2	0.84	0.035	0.24	0.6	<0.01	2.2	<0.1	0.22	4	<0.5	<0.2
1969383	Drill Core	4	53	1.59	69	0.152	1	1.97	0.083	0.55	0.3	<0.01	11.1	0.3	0.14	7	<0.5	<0.2
1969384	Drill Core	14	13	1.01	81	0.117	2	1.68	0.073	0.43	0.4	<0.01	4.2	0.2	0.14	9	<0.5	<0.2
1969385	Rock Chip	9	8	0.61	214	0.120	2	1.03	0.091	0.47	<0.1	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2
1969386	Drill Core	10	6	0.58	44	0.070	1	1.14	0.067	0.25	0.3	0.01	2.5	0.1	0.12	5	<0.5	<0.2
1969387	Drill Core	12	7	0.61	52	0.079	1	1.20	0.072	0.30	0.1	<0.01	2.8	0.1	0.08	5	<0.5	<0.2
1969388	Drill Core	6	3	0.47	44	0.012	2	0.79	0.014	0.24	0.3	<0.01	1.9	0.1	2.78	3	<0.5	<0.2

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Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1969389	Drill Core	3.07	0.3	49.2	32.4	107	0.2	22.9	24.1	919	4.88	1.8	8.8	1.4	122	1.7	<0.1	<0.1	175	3.16	0.106
1969390	Drill Core	3.73	0.2	5.7	32.1	76	0.2	2.2	3.8	509	2.09	1.8	32.2	4.3	84	1.3	<0.1	0.2	24	2.03	0.073
1969391	Drill Core	5.86	0.4	4.3	7.1	59	<0.1	2.9	4.2	541	2.17	1.8	14.5	4.2	72	0.2	<0.1	<0.1	28	1.61	0.078
1969392	Drill Core	5.47	0.2	3.6	13.1	57	0.2	2.3	3.8	552	2.16	1.7	6.0	4.2	80	0.3	<0.1	0.5	30	1.87	0.077
1969393	Drill Core	5.55	0.7	4.7	9.1	65	0.1	2.4	3.9	560	2.09	1.7	5.0	3.9	78	0.7	<0.1	0.2	28	1.85	0.075
1969394	Drill Core	2.80	159.4	6.0	5.5	52	0.3	2.4	4.1	494	2.21	1.1	3.7	3.8	79	<0.1	<0.1	0.7	31	1.80	0.077
1969395	Drill Core	2.97	235.3	10.9	38.2	176	1.2	2.2	3.9	571	1.94	4.4	15.1	3.5	73	5.4	<0.1	2.5	21	1.86	0.063
1969396	Drill Core	5.33	0.4	3.6	5.1	57	<0.1	2.4	4.1	537	2.24	0.8	2.4	4.2	63	0.2	<0.1	0.2	32	1.58	0.080
1969397	Rock Pulp	0.04	1119	8691	41.6	163	3.8	38.4	20.5	510	4.36	33.9	585.7	1.5	43	0.3	6.5	1.2	99	0.99	0.081
1969398	Drill Core	1.47	1.9	10.0	61.0	275	0.4	2.7	3.8	1265	1.76	9.1	8.1	4.2	174	9.8	<0.1	0.6	12	3.41	0.077
1969399	Drill Core	5.03	0.5	7.7	15.0	94	0.6	2.4	3.9	548	1.95	1.5	8.7	5.1	118	1.9	<0.1	1.7	21	2.70	0.073
1969400	Drill Core	5.94	1.7	7.1	59.5	65	4.0	2.7	4.2	486	2.25	1.2	9.5	3.9	53	0.6	<0.1	6.7	29	1.23	0.076
2098301	Drill Core	5.81	11.9	4.2	6.1	55	0.2	2.3	4.1	463	2.13	0.8	3.8	4.4	61	<0.1	<0.1	0.7	30	1.42	0.071
2098302	Drill Core	3.34	7.5	3.3	6.3	54	0.2	2.7	3.8	485	2.12	0.5	1.6	4.1	59	<0.1	<0.1	0.5	30	1.45	0.069
2098303	Drill Core	2.22	1.1	5.7	11.2	53	0.3	2.2	3.6	472	1.84	10.3	2.1	4.6	94	1.0	<0.1	0.5	15	2.26	0.062
2098304	Drill Core	4.13	<0.1	1.7	6.9	78	<0.1	2.2	4.1	526	2.21	<0.5	4.7	3.3	48	1.0	<0.1	0.1	28	0.35	0.077
2098305	Drill Core	2.46	0.3	4.0	65.7	226	0.2	2.4	4.2	775	2.02	4.7	4.1	4.2	29	6.2	<0.1	0.5	19	0.28	0.071
2098306	Drill Core	0.95	1.2	9.4	156.2	469	0.6	1.3	2.0	729	1.70	2.5	5.4	6.2	10	12.6	<0.1	1.4	6	0.12	0.060
2098307	Drill Core	2.56	0.2	3.4	41.6	329	<0.1	2.2	4.0	580	2.18	0.8	6.3	3.7	41	6.7	<0.1	<0.1	25	0.47	0.077
2098308	Drill Core	3.98	0.3	5.8	104.3	161	0.4	2.1	3.3	830	1.72	2.3	8.7	5.4	19	7.0	<0.1	0.4	14	0.23	0.071
2098309	Drill Core	5.13	0.3	2.3	74.4	542	1.2	2.1	3.5	894	2.09	7.0	277.3	5.1	26	12.0	<0.1	1.8	20	0.30	0.081
2098310	Drill Core	5.47	<0.1	1.2	7.8	98	<0.1	2.5	4.0	507	2.19	0.6	16.4	3.8	42	1.5	<0.1	<0.1	28	0.32	0.079
2098311	Drill Core	5.01	<0.1	1.2	6.9	93	<0.1	2.2	3.8	500	2.09	<0.5	6.7	3.2	48	1.3	<0.1	<0.1	27	0.38	0.073
2098312	Drill Core	4.61	<0.1	3.7	57.7	335	0.1	2.2	3.9	522	2.11	0.6	57.7	3.1	37	3.4	<0.1	0.3	27	0.37	0.079
2098313	Drill Core	1.46	1.2	7.7	1249	489	6.0	1.6	3.5	568	1.72	2.3	31.2	3.5	8	7.5	<0.1	14.7	13	0.12	0.038
2098314	Drill Core	2.69	0.4	2.1	8.8	364	0.2	2.0	3.5	583	1.86	2.5	18.4	5.2	19	14.0	<0.1	<0.1	14	0.20	0.075
2098315	Rock Pulp	0.04	362.9	3361	21.2	52	1.7	29.6	8.4	437	3.10	13.2	836.5	1.1	33	<0.1	3.5	0.5	48	0.68	0.049
2098316	Drill Core	5.14	0.4	3.1	19.7	93	0.1	2.3	3.8	700	1.94	0.7	2.6	5.1	32	3.3	<0.1	0.1	20	0.24	0.078
2098317	Rock Chip	0.35	<0.1	1.5	2.7	45	<0.1	3.8	4.0	531	1.84	<0.5	2.3	4.5	58	<0.1	<0.1	<0.1	33	0.58	0.077
2098318	Drill Core	1.98	0.5	7.7	55.5	209	0.3	2.1	4.3	987	1.97	2.1	4.1	6.9	17	8.7	<0.1	0.6	12	0.22	0.080

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125A - 1030 Denman Street
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Project: Athabasca
Report Date: October 27, 2012

CERTIFICATE OF ANALYSIS VAN12004945.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		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
MDL		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
1969389	Drill Core	3	47	2.38	164	0.166	<1	3.01	0.055	1.02	0.1	<0.01	15.7	0.8	0.12	9	<0.5	<0.2
1969390	Drill Core	10	5	0.54	46	0.048	2	1.16	0.066	0.23	0.5	<0.01	3.1	<0.1	0.22	5	<0.5	<0.2
1969391	Drill Core	11	7	0.58	45	0.060	<1	1.23	0.073	0.21	0.4	<0.01	2.9	<0.1	0.14	6	<0.5	<0.2
1969392	Drill Core	12	6	0.58	48	0.068	2	1.36	0.083	0.22	0.4	<0.01	3.5	<0.1	0.12	6	<0.5	<0.2
1969393	Drill Core	11	7	0.56	48	0.066	1	1.30	0.077	0.22	10.3	<0.01	3.5	<0.1	0.14	6	<0.5	<0.2
1969394	Drill Core	11	7	0.60	46	0.066	<1	1.25	0.083	0.20	3.9	<0.01	3.6	<0.1	0.20	6	<0.5	<0.2
1969395	Drill Core	9	6	0.44	42	0.045	<1	1.10	0.069	0.24	0.6	<0.01	3.0	0.1	0.42	5	<0.5	0.3
1969396	Drill Core	13	7	0.63	47	0.092	1	1.43	0.102	0.19	0.9	<0.01	3.9	<0.1	0.10	7	<0.5	<0.2
1969397	Rock Pulp	7	61	1.06	91	0.138	6	1.76	0.108	0.54	13.8	0.11	8.7	0.4	1.97	6	5.4	0.8
1969398	Drill Core	9	4	0.34	62	0.017	2	1.02	0.026	0.37	0.7	<0.01	2.0	0.1	0.57	3	<0.5	<0.2
1969399	Drill Core	14	5	0.51	57	0.061	<1	1.30	0.059	0.29	0.8	<0.01	3.0	<0.1	0.32	5	<0.5	<0.2
1969400	Drill Core	12	8	0.60	38	0.085	1	1.26	0.078	0.13	0.8	<0.01	2.9	<0.1	0.27	6	<0.5	0.5
2098301	Drill Core	13	7	0.59	35	0.086	<1	1.28	0.084	0.14	1.4	<0.01	3.3	<0.1	0.21	6	<0.5	<0.2
2098302	Drill Core	12	7	0.58	32	0.083	<1	1.27	0.085	0.14	1.9	<0.01	3.0	<0.1	0.20	6	<0.5	<0.2
2098303	Drill Core	9	3	0.33	44	0.053	<1	1.05	0.024	0.24	0.8	<0.01	1.6	0.1	0.89	4	<0.5	<0.2
2098304	Drill Core	11	6	0.63	40	0.066	4	1.55	0.114	0.16	0.3	<0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
2098305	Drill Core	11	4	0.44	36	0.044	4	1.26	0.054	0.23	0.9	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
2098306	Drill Core	13	3	0.15	43	0.014	4	0.66	0.009	0.28	79.0	<0.01	0.8	0.1	<0.05	2	<0.5	<0.2
2098307	Drill Core	11	5	0.55	38	0.053	3	1.36	0.078	0.22	0.8	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
2098308	Drill Core	13	4	0.34	54	0.022	3	1.11	0.056	0.33	0.9	<0.01	1.9	0.1	<0.05	4	<0.5	<0.2
2098309	Drill Core	12	4	0.43	49	0.030	3	1.17	0.054	0.34	1.1	<0.01	2.2	0.1	0.11	4	<0.5	<0.2
2098310	Drill Core	12	6	0.62	44	0.072	2	1.66	0.098	0.25	0.4	0.01	2.1	0.1	<0.05	6	<0.5	<0.2
2098311	Drill Core	10	6	0.60	33	0.071	3	1.48	0.110	0.15	0.2	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
2098312	Drill Core	9	6	0.59	37	0.071	2	1.38	0.087	0.20	0.4	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
2098313	Drill Core	7	3	0.14	29	0.006	3	0.49	0.012	0.22	>100	<0.01	0.9	<0.1	<0.05	2	<0.5	0.2
2098314	Drill Core	15	4	0.38	49	0.021	2	1.10	0.060	0.27	1.4	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
2098315	Rock Pulp	5	31	0.57	119	0.105	5	1.23	0.087	0.10	1.0	0.09	4.3	<0.1	0.38	4	1.2	<0.2
2098316	Drill Core	16	5	0.44	61	0.040	3	1.43	0.079	0.32	2.2	<0.01	2.0	0.1	<0.05	5	<0.5	<0.2
2098317	Rock Chip	7	6	0.60	193	0.100	<1	0.99	0.092	0.47	0.2	0.01	2.4	0.3	<0.05	5	<0.5	<0.2
2098318	Drill Core	18	4	0.30	84	0.027	2	1.30	0.040	0.38	1.5	<0.01	2.0	0.2	<0.05	4	<0.5	<0.2

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Project: Athabasca
Report Date: October 27, 2012

CERTIFICATE OF ANALYSIS VAN12004945.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
2098319	Drill Core	1.88	1.0	6.8	1808	444	16.0	1.7	3.2	1347	2.63	30.6	20.4	6.5	11	12.6	0.4	35.6	8	0.13	0.076
2098320	Drill Core	2.14	0.1	1.6	145.7	242	0.1	2.2	3.3	757	1.89	0.6	<0.5	4.6	40	5.8	<0.1	<0.1	22	0.38	0.077
2098321	Drill Core	5.53	<0.1	1.3	10.4	72	<0.1	2.2	3.4	475	2.04	0.7	2.5	3.4	39	1.6	<0.1	<0.1	25	0.33	0.071
2098322	Drill Core	0.92	0.2	5.6	654.8	480	1.1	2.2	3.5	613	1.93	6.3	141.7	4.5	27	5.6	0.1	1.2	23	0.32	0.079
2098323	Drill Core	4.19	<0.1	1.9	8.8	138	<0.1	2.3	3.6	522	2.14	0.6	18.9	3.6	44	2.3	<0.1	<0.1	28	0.35	0.078
2098324	Drill Core	1.26	3.1	17.1	917.7	515	3.5	1.2	8.5	194	3.70	15.0	826.4	3.9	6	7.8	<0.1	8.6	13	0.08	0.045
2098325	Drill Core	2.03	0.7	6.2	17.6	261	0.2	2.0	4.4	756	1.83	1.3	6.9	6.9	14	10.9	<0.1	<0.1	8	0.22	0.081
2098326	Drill Core	2.19	0.4	3.7	11.8	183	0.2	2.0	3.2	789	1.86	1.0	4.1	6.3	14	8.5	<0.1	<0.1	10	0.21	0.081
12AthMHLD01	Rock	0.28	1.5	3.9	>10000	17	37.6	0.4	0.1	29	0.47	<0.5	77.1	0.2	3	2.0	0.6	69.1	<2	<0.01	<0.001

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CERTIFICATE OF ANALYSIS VAN12004945.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		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
MDL		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
2098319	Drill Core	6	2	0.06	65	0.003	4	0.61	0.007	0.38	2.0	0.02	1.1	0.2	0.65	2	<0.5	0.6
2098320	Drill Core	10	5	0.49	49	0.043	1	1.34	0.070	0.27	0.6	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
2098321	Drill Core	10	5	0.55	37	0.060	1	1.33	0.090	0.24	0.3	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
2098322	Drill Core	11	5	0.49	44	0.055	2	1.06	0.063	0.25	0.5	0.02	1.8	0.1	<0.05	4	<0.5	<0.2
2098323	Drill Core	11	6	0.60	46	0.079	2	1.45	0.092	0.36	0.3	0.01	2.3	0.2	<0.05	6	<0.5	<0.2
2098324	Drill Core	7	4	0.14	37	0.003	3	0.61	0.015	0.22	2.5	<0.01	1.0	<0.1	0.99	2	<0.5	<0.2
2098325	Drill Core	15	3	0.33	52	0.007	4	0.99	0.048	0.31	1.3	<0.01	1.4	0.1	<0.05	3	<0.5	<0.2
2098326	Drill Core	17	3	0.40	71	0.007	3	1.08	0.044	0.32	1.0	<0.01	1.6	0.1	<0.05	3	<0.5	<0.2
12AthMHLD01	Rock	<1	1	<0.01	6	0.001	2	0.03	0.002	0.02	>100	<0.01	<0.1	<0.1	0.30	<1	2.3	1.8

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Project: Athabasca
Report Date: October 27, 2012

QUALITY CONTROL REPORT VAN12004945.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1969310	Rock Chip	0.41	<0.1	2.6	3.0	45	<0.1	4.1	4.5	574	1.92	<0.5	<0.5	4.8	70	<0.1	<0.1	<0.1	35	0.66	0.076
REP 1969310	QC		<0.1	2.2	2.9	46	<0.1	3.8	4.4	550	1.87	<0.5	<0.5	5.1	71	<0.1	<0.1	<0.1	34	0.64	0.074
1969319	Drill Core	1.73	0.3	7.1	60.7	82	0.2	2.3	3.3	666	1.95	2.3	<0.5	5.8	159	1.4	<0.1	0.3	22	1.73	0.075
REP 1969319	QC		0.2	7.1	59.5	83	0.2	2.3	3.4	678	1.95	2.4	0.8	5.7	164	1.5	<0.1	0.3	21	1.73	0.076
1969345	Drill Core	4.87	<0.1	103.5	2.0	48	0.1	140.4	28.3	837	3.53	1.1	1.2	0.2	108	<0.1	0.3	<0.1	117	4.36	0.098
REP 1969345	QC		<0.1	97.1	2.0	45	0.1	140.8	27.4	812	3.48	0.8	2.6	0.2	109	<0.1	0.3	<0.1	115	4.37	0.102
1969393	Drill Core	5.55	0.7	4.7	9.1	65	0.1	2.4	3.9	560	2.09	1.7	5.0	3.9	78	0.7	<0.1	0.2	28	1.85	0.075
REP 1969393	QC		0.7	4.9	9.2	65	0.1	2.6	3.8	554	2.09	1.1	4.0	4.0	80	0.7	<0.1	0.2	28	1.86	0.075
Core Reject Duplicates																					
1969320	Drill Core	1.33	0.1	1.2	5.3	39	<0.1	1.9	2.7	394	1.51	<0.5	<0.5	5.9	41	<0.1	<0.1	<0.1	23	0.86	0.066
DUP 1969320	QC	<0.01	<0.1	1.1	5.7	37	<0.1	1.8	2.7	371	1.52	<0.5	<0.5	5.9	41	<0.1	<0.1	<0.1	23	0.84	0.062
1969354	Drill Core	1.46	0.4	16.5	4.3	9	<0.1	0.8	2.6	126	0.68	1.1	5.5	5.9	18	<0.1	<0.1	<0.1	13	0.91	0.009
DUP 1969354	QC	<0.01	0.2	16.3	4.9	9	<0.1	0.8	3.1	132	0.72	1.5	4.0	6.3	18	<0.1	<0.1	<0.1	13	0.94	0.010
1969388	Drill Core	2.52	1.1	11.0	421.1	682	1.8	3.4	10.9	1223	3.65	29.0	2579	3.8	166	26.5	0.1	1.6	11	2.81	0.070
DUP 1969388	QC	<0.01	1.0	11.2	448.7	720	1.7	2.9	8.9	1197	3.48	28.2	2049	4.1	167	28.3	0.1	1.8	11	2.81	0.066
2098322	Drill Core	0.92	0.2	5.6	654.8	480	1.1	2.2	3.5	613	1.93	6.3	141.7	4.5	27	5.6	0.1	1.2	23	0.32	0.079
DUP 2098322	QC	<0.01	0.2	5.6	677.3	494	1.2	2.3	3.6	589	1.94	5.3	358.5	4.3	28	5.8	0.1	1.3	23	0.32	0.076
Reference Materials																					
STD DS9	Standard		13.4	109.6	123.6	310	1.8	41.1	7.8	604	2.34	27.2	103.5	6.6	76	2.5	5.9	6.5	39	0.75	0.084
STD DS9	Standard		13.7	113.3	127.6	321	1.8	42.9	7.8	606	2.33	26.7	108.4	7.2	74	2.6	5.8	6.2	40	0.75	0.083
STD DS9	Standard		13.7	111.5	131.0	304	2.0	44.0	8.2	593	2.34	24.3	130.6	7.1	68	2.2	5.3	5.9	40	0.76	0.079
STD DS9	Standard		11.0	114.3	118.9	285	1.6	39.4	7.5	549	2.31	24.3	121.0	6.4	64	2.4	4.8	5.9	39	0.74	0.078
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
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	<0.01	<0.001
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	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	0.2	<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	<0.01	<0.001
Prep Wash																					

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QUALITY CONTROL REPORT VAN12004945.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		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
MDL		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
Pulp Duplicates																		
1969310	Rock Chip	9	6	0.64	216	0.128	<1	1.06	0.090	0.48	<0.1	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2
REP 1969310	QC	10	6	0.63	221	0.128	1	1.03	0.086	0.46	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
1969319	Drill Core	14	5	0.46	39	0.050	<1	1.27	0.045	0.24	1.1	<0.01	2.6	0.1	<0.05	5	<0.5	<0.2
REP 1969319	QC	15	5	0.46	44	0.054	<1	1.28	0.046	0.25	1.1	<0.01	2.6	0.1	<0.05	6	<0.5	<0.2
1969345	Drill Core	<1	241	2.81	14	0.179	<1	2.57	0.056	0.09	0.5	<0.01	6.2	<0.1	<0.05	8	<0.5	<0.2
REP 1969345	QC	<1	242	2.63	15	0.171	1	2.54	0.057	0.09	0.5	<0.01	5.7	<0.1	<0.05	8	<0.5	<0.2
1969393	Drill Core	11	7	0.56	48	0.066	1	1.30	0.077	0.22	10.3	<0.01	3.5	<0.1	0.14	6	<0.5	<0.2
REP 1969393	QC	12	7	0.56	47	0.069	<1	1.33	0.079	0.23	10.4	<0.01	3.5	<0.1	0.14	6	<0.5	<0.2
Core Reject Duplicates																		
1969320	Drill Core	13	6	0.41	29	0.088	<1	0.90	0.083	0.17	0.2	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
DUP 1969320	QC	12	5	0.42	34	0.087	<1	0.93	0.091	0.19	0.2	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1969354	Drill Core	5	1	0.14	15	0.022	<1	0.32	0.060	0.11	0.3	<0.01	0.9	<0.1	0.18	2	<0.5	<0.2
DUP 1969354	QC	5	2	0.15	16	0.021	<1	0.35	0.058	0.11	0.3	<0.01	1.1	<0.1	0.18	2	<0.5	<0.2
1969388	Drill Core	6	3	0.47	44	0.012	2	0.79	0.014	0.24	0.3	<0.01	1.9	0.1	2.78	3	<0.5	<0.2
DUP 1969388	QC	7	3	0.49	48	0.012	3	0.82	0.015	0.25	0.4	<0.01	1.8	0.1	2.56	3	<0.5	<0.2
2098322	Drill Core	11	5	0.49	44	0.055	2	1.06	0.063	0.25	0.5	0.02	1.8	0.1	<0.05	4	<0.5	<0.2
DUP 2098322	QC	11	5	0.50	42	0.059	3	1.06	0.062	0.26	0.5	<0.01	1.9	0.1	0.05	4	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	14	122	0.63	316	0.113	4	1.02	0.093	0.41	3.1	0.21	2.7	5.4	0.16	5	5.0	5.2
STD DS9	Standard	14	127	0.63	315	0.122	1	1.00	0.087	0.40	3.1	0.21	2.5	5.3	0.16	5	5.9	5.7
STD DS9	Standard	14	129	0.63	305	0.124	3	1.00	0.085	0.40	2.9	0.23	2.6	5.4	0.16	5	4.8	4.9
STD DS9	Standard	13	116	0.63	286	0.114	3	0.99	0.084	0.40	2.7	0.19	2.3	4.8	0.16	4	4.9	4.9
STD DS9 Expected		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	<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	<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	<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	<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																		

Acme Analytical Laboratories (Vancouver) Ltd.
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Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Hellix Ventures Inc.**
125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Project: Athabasca
Report Date: October 27, 2012

QUALITY CONTROL REPORT VAN12004945.1

		WGHT Wgt kg 0.01	1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
G1	Prep Blank	<0.01	<0.1	1.9	3.5	54	<0.1	4.3	5.1	631	2.07	<0.5	<0.5	5.4	66	<0.1	<0.1	0.1	37	0.50	0.087
G1	Prep Blank	<0.01	<0.1	1.9	3.4	48	<0.1	3.8	4.6	580	1.94	<0.5	<0.5	5.4	62	<0.1	<0.1	0.1	35	0.45	0.077

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125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Project: Athabasca
Report Date: October 27, 2012

QUALITY CONTROL REPORT VAN12004945.1

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Tl ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
G1	Prep Blank	10	9	0.63	277	0.136	4	1.13	0.106	0.56	<0.1	<0.01	2.6	0.3	<0.05	6	<0.5	<0.2
G1	Prep Blank	10	9	0.58	247	0.123	2	1.03	0.090	0.51	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Hellix Ventures Inc.**
125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Submitted By: Edis Findla
Receiving Lab: Canada-Vancouver
Received: November 22, 2012
Report Date: November 30, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN12004945M.1

CLIENT JOB INFORMATION

Project: Athabasca
Shipment ID: 12Hellix Drill
P.O. Number
Number of Samples: 1

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
M150	1	Crush, Pulverize and Sieve 500g, save +150 and -150 mes		Completed	VAN
G602	1	Metallics Fire Assay	30	Completed	VAN

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.

ADDITIONAL COMMENTS

Invoice To: Hellix Ventures Inc.
125A - 1030 Denman Street
Vancouver BC V6G 2M6
Canada

CC: Perry Grunenberg

BRITISH COLUMBIA CERTIFIED ASSAYER
RAYMOND CHAN
CHIEF ASSAYER

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: **Hellix Ventures Inc.**
125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Project: Athabasca
Report Date: November 30, 2012

CERTIFICATE OF ANALYSIS VAN12004945M.1

		Method	M150	G6	G6.ME	G6.ME	G6.ME
		Analyte	TotWt	-Au	+Au	+Wt	TotAu
		Unit	g	gm/t	mg	g	gm/t
		MDL	1	0.005	0.005	0.01	0.01
G1	Prep Blank		309	<0.005	<0.005	20.72	<0.01
1969388	Drill Core		532	3.291	0.172	24.10	3.47

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Client: **Hellix Ventures Inc.**
125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Project: Athabasca
Report Date: November 30, 2012

QUALITY CONTROL REPORT VAN12004945M.1

		Method	M150	G6	G6.ME	G6.ME	G6.ME
		Analyte	TotWt	-Au	+Au	+Wt	TotAu
		Unit	g	gm/t	mg	g	gm/t
		MDL	1	0.005	0.005	0.01	0.01
Reference Materials							
STD OXK94	Standard			3.445			
STD OXP91	Standard				0.432	30.12	
BLK	Blank				<0.005	30.00	
BLK	Blank			<0.005			
Prep Wash							
G1	Prep Blank		309	<0.005	<0.005	20.72	<0.01

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Hellix Ventures Inc.**
125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Submitted By: Edis Findla
Receiving Lab: Canada-Vancouver
Received: November 22, 2012
Report Date: December 07, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN12004945N.1

CLIENT JOB INFORMATION

Project: Athabasca
Shipment ID: 12Hellix Drill
P.O. Number
Number of Samples: 1

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
M150	1	Crush, Pulverize and Sieve 500g, save +150 and -150 mes		Completed	VAN
G602-G610	1	Metallics Fire Assay	30	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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: Hellix Ventures Inc.
125A - 1030 Denman Street
Vancouver BC V6G 2M6
Canada

CC: Perry Grunenberg

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"*" 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: **Hellix Ventures Inc.**
125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Project: Athabasca
Report Date: December 07, 2012

CERTIFICATE OF ANALYSIS VAN12004945N.1

Method		M150	G6-50	G6.ME	G6.ME	G6.ME
Analyte		TotWt	-Au	+Au	+Wt	TotAu
Unit		g	gm/t	mg	g	ppm
MDL		1	0.005	0.005	0.01	0.01
G1	Prep Blank	335	<0.005	<0.005	20.48	<0.01
2098324	Drill Core	400	0.636	0.079	19.86	0.80

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Client: **Hellix Ventures Inc.**
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Vancouver BC V6G 2M6 Canada

Project: Athabasca
Report Date: December 07, 2012

QUALITY CONTROL REPORT VAN12004945N.1

		Method	M150	G6-50	G6.ME	G6.ME	G6.ME
		Analyte	TotWt	-Au	+Au	+Wt	TotAu
		Unit	g	gm/t	mg	g	ppm
		MDL	1	0.005	0.005	0.01	0.01
2098324	Drill Core		400	0.636	0.079	19.86	0.80
Reference Materials							
STD OXP91	Standard					29.69	
STD OXP91	Standard				0.436	29.96	
BLK	Blank					30.00	
BLK	Blank				<0.005	30.00	
Prep Wash							
G1	Prep Blank		335	<0.005	<0.005	20.48	<0.01

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Hellix Ventures Inc.**
125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Submitted By: Edis Findla
Receiving Lab: Canada-Vancouver
Received: June 20, 2012
Report Date: July 11, 2012
Page: 1 of 6

CERTIFICATE OF ANALYSIS VAN12002802.1

CLIENT JOB INFORMATION

Project: Athabasca
Shipment ID: 12ATH1
P.O. Number
Number of Samples: 123

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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	122	Dry at 60C			VAN
SS80	122	Dry at 60C sieve 100g to -80 mesh			VAN
1F03	122	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
7AR	5	1:1:1 Aqua Regia Digestion ICP-ES Finish	0.4	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Hellix Ventures Inc.
125A - 1030 Denman Street
Vancouver BC V6G 2M6
Canada

CC: Perry Grunenberg

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.
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"*" 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: **Hellix Ventures Inc.**
125A - 1030 Denman Street
Vancouver BC V6G 2M6 Canada

Project: Athabasca
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS VAN12002802.1

		Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		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
L78100E 78175N	Soil		0.80	13.18	14.82	113.5	236	9.4	7.5	367	2.58	6.3	0.6	7.3	2.6	19.1	1.25	0.71	0.37	43	0.23	0.284
L78100E 78200N	Soil		0.55	20.27	10.27	82.1	160	12.9	9.4	356	2.54	2.6	0.7	4.1	3.3	23.3	1.00	0.37	0.21	50	0.34	0.181
L78100E 78225N	Soil		0.68	63.54	41.40	138.8	419	36.4	18.6	496	3.64	9.3	0.8	1320	2.4	26.6	0.97	0.86	0.41	76	0.38	0.166
L78100E 78250N	Soil		2.49	25.73	4873	1067	13019	7.4	5.4	368	2.91	17.8	1.4	18398	1.5	19.4	22.77	2.91	19.59	54	0.27	0.084
L78100E 78275N	Soil		3.65	56.14	9797	2457	27137	9.2	7.4	498	3.97	24.0	1.0	27824	0.8	20.3	39.17	4.75	31.13	74	0.28	0.086
L78100E 78300N	Soil		0.38	21.77	80.69	125.7	468	13.8	9.9	395	2.23	5.1	0.4	220.3	1.6	35.2	2.11	0.44	0.74	44	0.33	0.126
L78100E 78325N	Soil		0.39	27.28	35.30	70.7	123	15.3	10.8	387	2.39	4.1	0.8	68.5	3.1	34.9	0.92	0.55	0.40	45	0.40	0.120
L78100E 78350N	Soil		0.44	24.60	13.58	60.2	241	15.4	9.6	533	2.28	4.0	0.6	26.8	1.4	29.6	0.66	0.52	0.25	47	0.27	0.080
L78100E 78375N	Soil		0.56	21.62	10.33	70.2	326	13.7	8.2	298	2.21	4.2	0.8	25.8	1.3	41.9	0.58	0.26	0.28	47	0.39	0.076
L78100E 78400N	Soil		0.27	13.02	19.13	74.3	117	10.4	7.9	439	1.72	5.8	0.3	32.3	1.6	21.5	1.14	0.39	0.31	34	0.17	0.128
L78100E 78425N	Soil		0.40	10.31	13.78	113.5	248	8.5	7.4	500	2.05	6.2	0.4	33.3	1.8	20.2	1.24	0.48	0.32	34	0.14	0.238
L78100E 78450N	Soil		0.39	14.65	15.00	241.2	424	14.3	8.4	553	2.16	4.7	0.9	26.8	3.1	19.0	2.56	0.59	0.26	35	0.16	0.441
L78100E 78475N	Soil		1.87	22.68	18.70	90.9	1908	15.7	7.6	475	2.64	17.3	35.2	33.0	2.5	70.4	2.25	0.27	0.46	45	0.59	0.110
L78100E 78500N	Soil		0.29	6.93	15.38	129.9	182	11.0	6.4	364	1.73	7.2	0.4	17.6	2.1	16.2	0.80	0.53	0.43	30	0.17	0.111
L78100E 78525N	Soil		0.28	8.71	10.81	202.0	330	12.0	6.6	335	1.84	4.8	0.5	18.0	2.8	19.5	1.26	0.35	0.25	28	0.14	0.375
L78100E 78550N	Soil		0.54	14.84	16.09	129.3	202	13.7	7.7	406	1.98	2.7	2.4	16.2	3.3	33.1	1.29	0.20	0.28	38	0.35	0.106
L78100E 78575N	Soil		0.28	14.57	12.79	100.2	106	14.2	7.7	383	2.06	3.4	0.4	17.3	2.2	29.6	0.79	0.37	0.28	39	0.25	0.087
L78100E 78600N	Soil		0.59	11.18	25.50	112.5	231	11.2	6.9	361	2.04	4.7	0.8	12.4	2.6	21.0	1.30	1.01	0.34	34	0.16	0.149
L78100E 78625N	Soil		0.47	12.76	14.59	155.3	240	14.4	7.1	331	2.06	4.7	0.8	9.1	3.2	21.3	1.63	0.69	0.30	33	0.20	0.183
L78100E 78650N	Soil		0.38	13.44	15.14	151.3	161	15.8	8.2	294	2.26	2.7	0.9	20.4	3.4	20.6	2.12	0.48	0.31	39	0.19	0.120
L78150E 78150N	Soil		0.91	22.47	23.11	114.1	124	13.4	9.1	477	2.17	5.1	0.5	34.3	2.4	28.7	1.58	0.36	0.47	44	0.41	0.099
L78150E 78175N	Soil		1.10	15.91	16.97	91.8	87	11.2	8.9	405	2.14	3.7	0.4	27.6	2.3	26.6	1.14	0.36	0.39	40	0.33	0.105
L78150E 78200N	Soil		2.11	29.56	34.78	169.8	241	17.3	11.8	597	2.84	10.8	0.5	48.7	2.5	26.6	2.69	0.46	0.84	54	0.31	0.102
L78150E 78225N	Soil		1.17	16.08	19.01	88.7	217	10.7	7.9	270	2.11	6.4	0.6	17.5	2.2	29.5	1.15	0.58	0.40	42	0.34	0.100
L78150E 78250N	Soil		2.11	56.76	3631	721.8	12315	10.8	6.3	326	2.71	27.4	0.9	12797	2.4	23.7	7.37	5.69	15.95	55	0.31	0.104
L78150E 78275N	Soil		0.39	86.03	19.98	104.6	817	11.1	6.5	258	1.89	9.1	0.5	18.1	2.9	21.3	1.18	3.41	0.45	39	0.28	0.139
L78150E 78300N	Soil		0.37	38.78	24.31	73.3	318	15.8	12.1	303	2.41	5.2	0.6	43.1	2.2	29.0	1.03	1.10	0.28	46	0.32	0.092
L78150E 78325N	Soil		0.62	50.00	18.52	88.0	466	12.2	8.0	284	2.21	6.9	0.5	59.4	2.4	21.2	1.00	1.40	0.43	47	0.24	0.146
L78150E 78350N	Soil		0.43	14.71	11.58	92.1	103	12.5	8.1	236	2.49	3.6	0.5	19.8	3.5	21.4	0.67	0.43	0.32	43	0.25	0.253
L78150E 78375N	Soil		0.29	9.73	6.31	47.8	62	9.8	6.1	258	1.57	1.8	0.8	9.3	3.6	24.6	0.30	0.40	0.17	34	0.34	0.093

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Project: Athabasca
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS VAN12002802.1

	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	7AR
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	W
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	%
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.001
L78100E 78175N	Soil	6.8	20.6	0.35	102.0	0.094	2	2.46	0.009	0.07	1.8	2.6	0.12	0.02	68	0.3	0.05	7.2	
L78100E 78200N	Soil	10.2	26.9	0.69	88.8	0.089	2	1.88	0.013	0.11	1.1	2.7	0.14	<0.02	45	0.2	<0.02	5.0	
L78100E 78225N	Soil	8.2	71.3	1.23	115.9	0.138	2	2.24	0.011	0.17	1.4	2.9	0.15	<0.02	89	0.1	0.06	5.8	
L78100E 78250N	Soil	6.8	16.3	0.55	36.3	0.039	1	0.88	0.006	0.08	>100	1.7	0.11	<0.02	10071	0.9	0.56	3.1	0.030
L78100E 78275N	Soil	3.7	22.3	0.74	36.0	0.039	1	1.14	0.004	0.07	>100	2.2	0.09	0.04	18065	1.4	0.76	3.7	0.043
L78100E 78300N	Soil	7.1	29.0	0.52	85.6	0.066	1	1.17	0.008	0.10	6.3	2.4	0.10	<0.02	116	<0.1	0.04	4.2	
L78100E 78325N	Soil	12.3	31.0	0.58	73.5	0.065	1	0.91	0.010	0.14	3.1	2.7	0.11	<0.02	178	0.1	0.05	3.1	
L78100E 78350N	Soil	8.2	32.0	0.59	74.9	0.068	1	1.12	0.010	0.07	1.7	2.3	0.10	<0.02	142	0.1	0.02	3.7	
L78100E 78375N	Soil	7.6	32.3	0.62	85.4	0.076	<1	1.20	0.011	0.11	1.7	2.2	0.11	<0.02	59	<0.1	0.03	4.3	
L78100E 78400N	Soil	5.5	21.9	0.43	78.3	0.067	1	1.00	0.008	0.07	1.6	1.8	0.10	<0.02	61	<0.1	0.05	4.2	
L78100E 78425N	Soil	5.3	21.2	0.28	135.6	0.079	1	1.58	0.007	0.06	1.0	1.9	0.11	<0.02	102	0.2	0.02	6.1	
L78100E 78450N	Soil	6.2	20.6	0.39	161.1	0.121	2	3.28	0.013	0.09	0.7	3.5	0.16	<0.02	97	0.3	<0.02	8.0	
L78100E 78475N	Soil	57.7	64.2	0.44	254.1	0.113	2	3.38	0.017	0.14	6.6	4.0	0.32	0.03	106	1.0	0.02	10.0	
L78100E 78500N	Soil	5.6	18.4	0.42	90.3	0.084	1	1.38	0.009	0.12	1.5	1.7	0.17	<0.02	48	0.1	<0.02	5.4	
L78100E 78525N	Soil	5.7	16.6	0.31	223.1	0.109	1	2.39	0.012	0.08	0.9	2.4	0.11	<0.02	85	0.1	0.03	7.1	
L78100E 78550N	Soil	15.2	24.9	0.56	125.2	0.094	1	1.50	0.012	0.20	1.0	2.5	0.23	<0.02	43	<0.1	<0.02	4.7	
L78100E 78575N	Soil	7.7	24.2	0.57	119.8	0.093	<1	1.55	0.009	0.11	0.8	2.2	0.15	<0.02	25	<0.1	<0.02	5.3	
L78100E 78600N	Soil	7.9	16.0	0.30	137.7	0.130	2	2.72	0.014	0.07	0.7	3.0	0.17	<0.02	43	<0.1	<0.02	8.1	
L78100E 78625N	Soil	6.8	17.2	0.34	182.1	0.135	2	3.17	0.014	0.08	0.7	2.7	0.16	<0.02	54	0.2	<0.02	8.4	
L78100E 78650N	Soil	8.6	21.7	0.44	168.6	0.121	1	2.71	0.010	0.10	1.1	3.3	0.15	<0.02	42	<0.1	<0.02	7.1	
L78150E 78150N	Soil	9.1	25.6	0.64	91.9	0.086	1	1.21	0.012	0.18	3.1	2.4	0.19	<0.02	32	<0.1	<0.02	4.5	
L78150E 78175N	Soil	8.4	25.9	0.54	75.6	0.074	1	0.95	0.010	0.13	2.9	1.9	0.12	<0.02	29	<0.1	<0.02	3.7	
L78150E 78200N	Soil	8.5	33.9	0.80	91.6	0.089	1	1.44	0.009	0.17	3.2	2.9	0.17	<0.02	39	<0.1	0.07	5.1	
L78150E 78225N	Soil	7.5	25.8	0.53	58.1	0.076	<1	1.02	0.010	0.10	2.6	2.1	0.09	<0.02	59	<0.1	0.04	3.8	
L78150E 78250N	Soil	8.3	22.2	0.59	52.1	0.061	1	1.07	0.009	0.10	>100	2.0	0.13	0.02	9929	0.7	0.33	3.9	0.022
L78150E 78275N	Soil	8.2	24.2	0.49	74.6	0.074	1	1.26	0.009	0.08	1.9	2.1	0.09	<0.02	27	<0.1	0.04	4.6	
L78150E 78300N	Soil	8.4	33.8	0.55	83.1	0.065	<1	1.06	0.007	0.09	1.3	2.4	0.08	<0.02	112	<0.1	0.05	3.4	
L78150E 78325N	Soil	7.1	28.8	0.49	77.8	0.082	1	1.28	0.009	0.08	2.3	2.2	0.08	<0.02	73	<0.1	0.05	4.9	
L78150E 78350N	Soil	8.5	29.6	0.50	85.0	0.081	1	1.37	0.008	0.10	1.9	2.1	0.11	<0.02	55	<0.1	0.03	4.9	
L78150E 78375N	Soil	11.9	19.3	0.50	64.9	0.073	<1	0.88	0.016	0.14	1.9	2.0	0.13	<0.02	31	<0.1	<0.02	3.2	

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CERTIFICATE OF ANALYSIS VAN12002802.1

		Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		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
L78150E 78400N	Soil		0.48	7.93	15.45	137.0	151	9.4	7.3	635	1.99	5.8	0.3	6.1	2.3	20.5	2.29	0.38	0.29	33	0.16	0.167
L78150E 78425N	Soil		0.34	26.72	10.30	70.5	288	11.5	6.9	442	1.84	5.0	1.2	12.2	3.2	41.6	0.58	0.32	0.29	35	0.44	0.097
L78150E 78450N	Soil		0.29	20.80	16.64	182.3	129	15.8	7.5	385	1.92	9.2	0.5	16.2	2.5	20.0	1.13	0.47	0.27	33	0.18	0.314
L78150E 78475N	Soil		0.15	8.84	7.01	39.5	66	7.9	5.2	195	1.47	2.2	0.4	5.0	3.6	23.4	0.20	0.14	0.19	28	0.31	0.119
L78150E 78500N	Soil		0.21	8.77	8.84	38.1	50	6.9	5.2	264	1.39	1.1	0.6	10.7	3.8	24.9	0.26	0.23	0.18	28	0.33	0.114
L78150E 78525N	Soil		0.27	12.99	7.66	82.0	187	8.5	5.5	208	1.61	3.7	0.5	5.9	3.2	18.0	0.45	0.41	0.15	29	0.22	0.156
L78150E 78550N	Soil		0.30	53.64	13.25	103.2	645	9.4	6.7	277	1.87	9.2	0.4	2.7	2.6	27.3	0.53	1.39	0.26	29	0.23	0.167
L78150E 78575N	Soil		0.46	18.74	21.14	96.3	261	17.2	9.2	428	2.34	2.1	4.3	5.4	3.8	41.3	1.36	0.32	0.32	43	0.39	0.091
L78150E 78600N	Soil		0.29	20.65	12.42	88.2	203	17.8	9.1	268	2.24	1.8	0.7	4.5	3.4	32.3	0.58	0.37	0.26	42	0.26	0.076
L78150E 78625N	Soil		0.36	34.39	29.25	85.7	728	13.9	7.5	319	2.07	7.2	1.8	4.6	4.0	26.4	0.86	1.45	0.29	35	0.28	0.086
L78150E 78650N	Soil		0.34	19.75	13.95	122.8	255	10.3	6.1	422	1.66	4.5	0.4	<0.2	1.9	16.5	1.49	1.04	0.25	28	0.11	0.122
L78250E 78125N	Soil		6.07	60.63	124.3	336.2	557	29.9	25.6	1262	4.32	15.4	0.6	324.9	1.8	26.0	4.60	0.80	2.03	104	0.34	0.103
L78250E 78150N	Soil		2.68	55.56	62.93	307.3	1185	20.7	16.5	534	3.54	8.0	1.2	82.6	3.1	28.1	3.53	0.55	1.14	77	0.32	0.092
L78250E 78175N	Soil		3.04	20.89	55.94	597.4	763	15.2	11.6	538	2.88	15.7	0.6	29.9	2.3	30.6	6.92	0.94	1.17	55	0.28	0.164
L78250E 78200N	Soil		7.42	20.88	90.96	622.0	1088	19.5	10.9	943	3.31	8.7	1.0	134.3	3.2	28.6	6.24	0.71	1.97	52	0.23	0.137
L78250E 78250N	Soil		26.26	20.89	1491	1459	11998	8.6	5.1	312	4.34	20.6	1.1	161.8	2.6	12.2	8.76	1.86	51.97	46	0.10	0.094
L78250E 78275N	Soil		21.89	41.27	3882	1401	95821	7.7	8.0	1461	8.28	129.9	1.8	1168	3.1	17.6	15.56	1.85	248.5	39	0.10	0.141
L78250E 78300N	Soil		1.84	20.19	72.10	744.9	564	16.6	9.7	807	2.70	10.0	0.4	57.6	2.0	28.7	7.14	0.68	1.78	47	0.21	0.149
L78250E 78325N	Soil		1.06	12.65	54.86	388.6	287	13.7	8.7	545	2.34	3.7	0.7	6.2	3.1	24.4	4.21	0.72	0.81	39	0.18	0.127
L78250E 78350N	Soil		1.17	11.18	54.88	324.2	290	11.0	7.5	502	2.37	5.6	0.7	12.0	3.2	30.2	3.60	0.44	0.75	38	0.24	0.155
L78250E 78375N	Soil		1.48	12.17	48.42	305.1	238	11.1	7.2	829	2.18	4.6	0.9	7.4	3.3	30.2	5.51	0.67	1.00	35	0.24	0.234
L78250E 78400N	Soil		0.89	9.00	43.85	314.8	352	10.2	6.7	678	2.10	5.5	0.7	843.9	2.7	31.0	3.79	0.58	0.52	32	0.27	0.214
L78250E 78425N	Soil		0.28	23.98	10.02	62.8	105	13.7	9.4	386	2.26	3.2	0.5	17.0	3.1	41.6	0.69	0.40	0.18	42	0.35	0.090
L78250E 78450N	Soil		0.75	69.77	16.69	120.7	108	24.6	15.9	364	3.76	9.7	0.4	27.6	1.9	47.4	0.96	0.65	0.24	70	0.42	0.153
L78250E 78475N	Soil		0.52	13.47	17.50	106.4	255	9.2	6.6	364	1.79	13.2	0.9	3.1	3.3	11.9	1.29	1.10	0.30	29	0.10	0.341
L78250E 78500N	Soil		0.32	16.14	9.57	74.1	209	12.5	8.2	290	2.07	3.1	0.6	114.6	3.5	24.0	0.61	0.34	0.28	37	0.24	0.151
L78250E 78525N	Soil		1.09	58.53	13.41	200.4	658	24.7	15.0	553	3.58	12.1	6.0	14.1	5.8	32.9	3.01	0.56	0.31	57	0.33	0.155
L78250E 78550N	Soil		0.52	18.79	37.04	133.9	246	13.9	8.0	450	1.97	4.3	3.2	7.6	2.7	50.2	1.84	0.61	0.41	36	0.54	0.102
L78250E 78575N	Soil		0.46	24.64	21.91	99.1	311	14.4	8.4	526	2.31	3.7	6.3	9.9	4.5	49.6	1.43	0.32	0.35	40	0.51	0.117
L78250E 78600N	Soil		0.60	11.10	16.89	101.1	337	9.4	6.7	357	1.88	3.2	1.8	4.2	2.7	27.9	1.03	0.84	0.32	31	0.32	0.133

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	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	7AR
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	W
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	%
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.001
L78150E 78400N	Soil	6.2	19.0	0.38	176.3	0.092	<1	1.21	0.009	0.10	1.7	1.9	0.15	<0.02	41	<0.1	<0.02	5.8	
L78150E 78425N	Soil	14.8	22.6	0.56	119.9	0.085	<1	1.19	0.015	0.16	1.4	2.4	0.20	<0.02	42	0.1	<0.02	4.5	
L78150E 78450N	Soil	6.6	23.5	0.45	144.7	0.097	<1	1.93	0.010	0.09	1.0	2.3	0.13	<0.02	37	<0.1	0.03	6.6	
L78150E 78475N	Soil	11.2	15.7	0.39	59.6	0.061	<1	0.75	0.014	0.11	1.8	1.6	0.10	<0.02	22	<0.1	<0.02	2.7	
L78150E 78500N	Soil	13.7	14.0	0.36	57.6	0.057	<1	0.70	0.014	0.17	1.0	1.5	0.14	<0.02	19	<0.1	<0.02	2.8	
L78150E 78525N	Soil	9.1	14.6	0.35	103.7	0.068	<1	1.25	0.012	0.08	1.0	1.6	0.09	<0.02	42	<0.1	<0.02	3.8	
L78150E 78550N	Soil	8.1	18.3	0.38	109.8	0.076	2	1.32	0.011	0.10	1.1	1.7	0.14	<0.02	38	0.1	0.02	5.3	
L78150E 78575N	Soil	14.9	29.6	0.73	115.6	0.112	2	1.59	0.013	0.24	1.5	2.5	0.28	<0.02	32	0.2	<0.02	5.3	
L78150E 78600N	Soil	8.5	28.2	0.69	113.7	0.102	2	1.73	0.013	0.17	1.0	2.2	0.20	<0.02	17	<0.1	<0.02	5.4	
L78150E 78625N	Soil	12.5	27.7	0.62	83.0	0.104	1	1.40	0.012	0.21	1.0	2.0	0.26	<0.02	33	<0.1	0.03	4.8	
L78150E 78650N	Soil	6.0	15.7	0.26	102.1	0.096	2	1.65	0.014	0.08	0.8	1.7	0.12	<0.02	46	<0.1	<0.02	5.5	
L78250E 78125N	Soil	5.8	40.3	1.28	135.9	0.179	2	3.12	0.017	0.30	12.1	4.6	0.46	<0.02	44	0.1	0.20	9.2	
L78250E 78150N	Soil	11.2	24.4	0.89	134.5	0.196	2	3.79	0.017	0.19	4.5	5.1	0.38	<0.02	73	0.2	0.15	10.5	
L78250E 78175N	Soil	5.2	18.6	0.49	155.7	0.159	2	3.10	0.020	0.12	4.9	2.8	0.19	<0.02	69	0.1	0.13	10.1	
L78250E 78200N	Soil	10.3	25.9	0.63	155.9	0.159	2	3.37	0.016	0.15	9.2	3.2	0.27	<0.02	55	<0.1	0.19	10.3	
L78250E 78250N	Soil	7.0	16.6	0.31	45.8	0.108	2	1.60	0.010	0.08	>100	1.0	0.20	0.03	*	0.3	0.56	10.5	0.037
L78250E 78275N	Soil	8.3	16.5	0.25	98.9	0.101	2	1.81	0.010	0.08	>100	0.9	0.25	0.07	*	1.3	2.93	8.6	0.043
L78250E 78300N	Soil	7.0	29.4	0.70	181.7	0.103	2	2.12	0.011	0.11	9.4	2.5	0.18	<0.02	44	<0.1	0.08	7.8	
L78250E 78325N	Soil	7.3	19.2	0.47	159.7	0.134	2	2.42	0.015	0.12	8.0	2.4	0.22	<0.02	48	0.2	0.03	8.2	
L78250E 78350N	Soil	9.3	16.6	0.48	151.2	0.120	2	2.16	0.014	0.15	6.5	2.4	0.26	<0.02	50	0.1	0.09	7.7	
L78250E 78375N	Soil	9.3	16.4	0.41	141.4	0.143	2	2.66	0.020	0.12	4.3	2.9	0.23	<0.02	57	0.1	0.06	8.2	
L78250E 78400N	Soil	7.2	15.3	0.27	189.5	0.131	2	2.31	0.020	0.10	1.2	2.2	0.18	<0.02	51	0.2	0.03	8.3	
L78250E 78425N	Soil	10.9	30.6	0.54	100.4	0.096	1	1.32	0.015	0.13	0.7	2.5	0.12	<0.02	25	0.2	0.08	3.9	
L78250E 78450N	Soil	7.1	55.1	1.02	81.4	0.115	1	1.54	0.008	0.17	1.5	3.2	0.12	<0.02	23	<0.1	0.08	4.3	
L78250E 78475N	Soil	4.7	14.3	0.24	82.7	0.124	1	3.16	0.013	0.06	1.7	1.9	0.12	<0.02	73	0.3	0.07	7.6	
L78250E 78500N	Soil	10.6	21.7	0.49	90.4	0.089	<1	1.39	0.013	0.08	1.6	1.7	0.12	<0.02	26	0.1	<0.02	4.5	
L78250E 78525N	Soil	14.3	48.7	0.81	198.2	0.132	1	2.61	0.014	0.27	2.2	4.2	0.25	<0.02	71	0.2	0.05	6.3	
L78250E 78550N	Soil	14.4	26.5	0.55	122.9	0.099	2	1.43	0.012	0.19	1.3	2.0	0.22	<0.02	142	0.2	<0.02	4.6	
L78250E 78575N	Soil	19.4	25.3	0.63	189.1	0.120	2	1.76	0.017	0.29	1.5	3.1	0.31	<0.02	66	0.3	<0.02	5.9	
L78250E 78600N	Soil	11.0	17.8	0.38	114.7	0.104	1	1.98	0.014	0.08	0.9	2.2	0.16	<0.02	71	0.4	0.03	6.0	

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Project: Athabasca
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS VAN12002802.1

	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
	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
L78250E 78625N	Soil	0.61	77.05	12.08	54.2	198	22.0	18.2	754	3.62	6.8	0.6	41.8	1.6	56.1	0.29	0.49	0.15	57	0.56	0.152
L78250E 78650N	Soil	0.56	36.58	19.28	96.3	251	19.3	13.4	795	3.02	6.0	4.3	8.1	2.4	47.2	1.43	0.63	0.24	57	0.43	0.083
L78350E 78150N	Soil	3.76	36.18	59.50	635.5	580	20.7	21.6	1368	3.89	32.9	1.0	110.4	2.2	20.7	4.74	0.90	0.97	80	0.25	0.136
L78350E 78175N	Soil	2.49	11.54	102.5	700.0	648	13.5	10.4	894	2.90	17.1	0.4	134.0	2.2	15.8	4.24	1.08	2.85	53	0.15	0.101
L78350E 78200N	Soil	3.65	11.60	60.17	777.8	751	12.5	9.8	1303	2.86	8.4	0.6	47.7	2.1	19.7	6.95	1.38	2.34	46	0.19	0.074
L78350E 78225N	Soil	6.44	15.09	124.9	1110	746	16.5	10.2	850	2.97	9.9	0.8	98.8	3.5	21.2	9.00	0.79	1.59	44	0.19	0.234
L78350E 78250N	Soil	4.04	13.77	66.58	527.2	562	16.9	9.4	525	2.67	11.8	0.6	16.0	3.0	25.9	4.43	1.20	1.05	43	0.26	0.101
L78350E 78275N	Soil	2.49	11.03	146.7	965.9	896	12.2	8.1	631	2.66	5.6	1.1	549.3	3.5	23.8	9.95	0.81	2.07	38	0.20	0.139
L78350E 78300N	Soil	2.74	10.70	43.00	440.1	529	8.5	6.1	688	2.10	8.5	0.7	2.0	2.6	17.2	8.34	1.27	0.53	32	0.13	0.103
L78350E 78350N	Soil	1.07	7.67	33.97	361.3	497	6.0	5.5	796	1.63	8.2	0.4	0.6	1.8	18.2	7.38	0.73	0.47	27	0.15	0.132
L78350E 78375N	Soil	1.45	10.02	46.78	481.8	637	14.4	7.1	860	2.07	8.2	0.8	1.7	2.6	23.7	6.59	0.83	0.50	31	0.25	0.286
L78350E 78400N	Soil	1.46	21.61	46.34	448.2	647	23.5	11.8	890	2.89	12.0	0.9	9.8	4.4	21.7	6.22	0.63	1.18	47	0.20	0.183
L78350E 78425N	Soil	0.98	8.93	16.43	245.2	429	9.7	4.3	519	1.77	3.8	0.8	3.5	2.7	21.1	8.00	0.66	0.29	29	0.15	0.363
L78350E 78450N	Soil	1.72	8.91	22.32	411.0	251	10.0	6.0	1018	2.00	6.7	0.6	3.7	2.7	28.9	8.24	0.51	0.41	35	0.20	0.240
L78350E 78475N	Soil	0.56	8.67	17.97	153.6	388	7.3	6.0	743	1.83	4.7	0.5	2.9	2.3	23.5	2.62	0.61	0.38	31	0.15	0.200
L78350E 78500N	Soil	0.79	10.73	19.62	134.1	480	8.0	6.3	441	2.16	5.1	0.7	1.8	3.0	14.0	1.96	1.03	0.36	36	0.11	0.358
L78350E 78525N	Soil	0.62	11.36	22.07	163.7	209	12.6	7.4	645	2.23	6.4	0.4	3.8	2.8	20.1	1.77	1.25	0.37	42	0.14	0.204
L78350E 78550N	Soil	0.30	55.35	16.23	79.8	259	20.7	16.8	320	3.52	7.1	0.4	135.2	2.4	25.8	0.38	0.52	0.35	72	0.23	0.075
L78350E 78575N	Soil	0.54	24.82	16.56	117.5	238	17.2	10.2	761	2.36	6.9	0.5	4.0	2.5	31.1	1.09	0.86	0.27	46	0.20	0.206
L78350E 78600N	Soil	0.41	9.26	22.61	132.2	283	9.6	6.7	900	1.82	8.9	0.4	3.3	2.5	16.7	1.32	0.98	0.29	34	0.16	0.146
L78350E 78625N	Soil	0.14	7.59	8.10	57.3	161	7.6	4.5	242	1.34	2.1	0.4	1.5	2.9	17.7	0.37	0.15	0.19	26	0.19	0.072
L78350E 78650N	Soil	0.30	9.61	12.14	175.6	250	14.1	7.7	336	2.03	5.9	0.5	2.3	3.3	17.2	1.14	0.69	0.29	38	0.16	0.270
L78350E 78675N	Soil	0.42	9.90	20.96	181.6	290	10.3	8.3	398	2.27	9.4	0.7	1.5	3.8	19.3	1.64	1.18	0.35	38	0.17	0.481
L78350E 78700N	Soil	0.48	7.77	13.48	117.9	202	6.9	5.8	328	2.09	6.7	0.5	0.3	3.4	12.2	1.11	1.36	0.36	37	0.11	0.328
L78350E 78725N	Soil	0.31	13.20	12.27	66.7	221	9.2	7.0	314	1.82	5.5	0.6	6.4	3.2	27.0	0.62	0.52	0.30	37	0.29	0.119
L78350E 78750N	Soil	0.45	21.79	28.47	140.5	269	14.5	9.8	364	2.73	8.1	0.7	9.0	3.6	29.9	1.16	1.00	0.39	55	0.31	0.125
L78350E 78775N	Soil	0.18	9.03	29.49	53.7	139	7.0	5.2	354	1.54	3.3	0.7	2.4	3.4	32.3	1.54	0.60	0.25	32	0.44	0.099
L78350E 78800N	Soil	0.25	14.15	16.27	79.3	98	14.9	7.8	406	2.03	1.5	1.0	4.4	4.6	53.0	0.66	0.18	0.49	41	0.53	0.147
L78350E 78825N	Soil	0.19	10.99	12.88	62.0	144	11.0	7.7	445	2.12	1.2	1.1	99.2	6.0	39.6	0.58	0.12	0.90	39	0.44	0.134
L78350E 78850N	Soil	0.18	8.09	6.97	32.7	29	5.0	3.3	192	1.08	2.9	0.6	3.4	3.1	25.1	0.36	0.29	0.16	24	0.32	0.098

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	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	7AR
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	W
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	%
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.001
L78250E 78625N	Soil	8.2	48.8	0.81	83.5	0.080	1	1.01	0.008	0.21	0.7	3.2	0.10	<0.02	13	0.2	0.15	3.1	
L78250E 78650N	Soil	9.9	39.5	0.75	131.1	0.124	<1	1.64	0.011	0.12	1.1	2.7	0.20	<0.02	56	0.2	0.03	5.2	
L78350E 78150N	Soil	6.9	33.4	0.83	96.6	0.145	2	2.56	0.015	0.14	4.4	3.8	0.29	<0.02	96	0.3	0.10	10.3	
L78350E 78175N	Soil	7.0	22.4	0.48	133.3	0.155	1	2.05	0.015	0.10	14.7	2.1	0.24	<0.02	52	0.2	0.34	10.4	
L78350E 78200N	Soil	6.9	17.2	0.43	152.3	0.151	1	2.49	0.016	0.13	6.2	2.1	0.27	<0.02	60	0.3	0.33	9.8	
L78350E 78225N	Soil	7.5	19.7	0.44	169.1	0.172	2	3.08	0.012	0.09	27.4	2.3	0.22	<0.02	60	0.2	0.16	11.6	
L78350E 78250N	Soil	7.8	21.3	0.50	162.0	0.171	2	2.46	0.016	0.10	11.0	2.0	0.22	<0.02	59	0.2	0.09	10.0	
L78350E 78275N	Soil	7.7	14.5	0.27	180.7	0.211	3	3.28	0.016	0.08	18.3	2.1	0.20	<0.02	70	0.3	0.09	12.9	
L78350E 78300N	Soil	4.7	10.2	0.17	134.9	0.174	2	3.16	0.016	0.05	1.5	1.5	0.14	<0.02	68	0.2	0.02	10.5	
L78350E 78350N	Soil	6.3	9.1	0.11	281.1	0.128	2	1.44	0.015	0.05	0.5	1.2	0.13	<0.02	65	0.2	0.02	9.0	
L78350E 78375N	Soil	6.6	15.4	0.27	217.4	0.174	3	3.11	0.018	0.08	3.4	1.8	0.16	<0.02	67	0.3	0.02	9.3	
L78350E 78400N	Soil	11.3	33.5	0.72	210.5	0.162	2	2.68	0.013	0.11	5.8	2.8	0.21	<0.02	45	0.3	0.06	8.8	
L78350E 78425N	Soil	5.5	11.1	0.16	209.7	0.154	2	3.40	0.021	0.05	0.8	2.4	0.14	<0.02	38	0.2	<0.02	8.6	
L78350E 78450N	Soil	6.2	14.4	0.27	294.2	0.138	3	2.68	0.019	0.08	0.8	2.6	0.18	<0.02	49	0.1	0.03	8.8	
L78350E 78475N	Soil	6.1	13.4	0.23	226.4	0.103	2	1.74	0.016	0.07	0.6	2.3	0.17	<0.02	57	0.2	<0.02	6.6	
L78350E 78500N	Soil	5.1	14.1	0.17	150.1	0.149	2	3.77	0.012	0.05	0.6	2.7	0.16	<0.02	82	0.2	<0.02	10.7	
L78350E 78525N	Soil	5.6	19.7	0.30	167.2	0.133	2	2.62	0.015	0.07	0.9	2.5	0.20	<0.02	42	<0.1	<0.02	8.8	
L78350E 78550N	Soil	7.0	49.7	0.85	99.2	0.107	<1	1.57	0.008	0.09	1.5	2.9	0.11	<0.02	15	0.3	0.11	4.7	
L78350E 78575N	Soil	5.3	26.0	0.47	224.2	0.134	2	2.70	0.018	0.09	0.8	2.9	0.16	<0.02	59	0.3	0.05	7.3	
L78350E 78600N	Soil	6.6	17.5	0.28	147.5	0.098	2	1.67	0.014	0.07	0.9	2.1	0.15	<0.02	48	0.1	0.04	6.3	
L78350E 78625N	Soil	9.9	12.1	0.34	82.5	0.065	1	1.01	0.014	0.08	0.7	1.6	0.09	<0.02	18	0.1	0.02	3.8	
L78350E 78650N	Soil	7.4	20.3	0.39	135.3	0.107	2	2.28	0.013	0.08	1.2	2.6	0.14	<0.02	48	<0.1	0.02	6.7	
L78350E 78675N	Soil	7.7	20.8	0.34	123.4	0.104	2	2.38	0.011	0.08	1.5	2.7	0.12	<0.02	66	0.1	0.04	7.2	
L78350E 78700N	Soil	6.6	16.9	0.21	79.3	0.110	1	2.54	0.011	0.04	1.4	2.3	0.10	<0.02	91	0.1	<0.02	8.8	
L78350E 78725N	Soil	10.3	23.1	0.43	75.9	0.083	1	1.14	0.015	0.08	0.7	2.0	0.11	<0.02	54	0.1	0.05	4.4	
L78350E 78750N	Soil	9.5	33.0	0.64	101.2	0.105	1	1.76	0.012	0.11	1.4	2.8	0.15	<0.02	83	0.2	0.03	5.9	
L78350E 78775N	Soil	16.0	15.8	0.40	87.9	0.069	1	0.76	0.020	0.15	1.4	2.0	0.13	<0.02	74	<0.1	0.02	3.3	
L78350E 78800N	Soil	19.4	26.8	0.69	153.8	0.113	<1	1.07	0.019	0.24	1.4	2.5	0.21	<0.02	8	<0.1	0.04	4.2	
L78350E 78825N	Soil	20.3	21.5	0.46	108.3	0.079	<1	0.72	0.016	0.19	3.0	1.9	0.18	<0.02	13	<0.1	0.10	3.4	
L78350E 78850N	Soil	11.8	13.0	0.29	41.0	0.048	<1	0.53	0.012	0.10	1.0	1.6	0.10	<0.02	9	<0.1	<0.02	2.0	

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		Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		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
L78350E 78875N	Soil		0.14	7.50	10.49	39.5	45	6.0	4.8	296	1.33	2.7	0.5	2.2	3.9	22.6	0.70	0.31	0.17	27	0.30	0.101
L78350E 78900N	Soil		0.19	6.59	28.98	31.0	192	4.6	4.2	215	1.25	6.8	0.6	3.5	4.1	21.0	0.55	0.99	0.20	25	0.28	0.097
L78450E 78150N	Soil		2.31	13.70	80.49	487.2	472	17.9	11.9	816	3.20	25.5	0.5	48.9	2.4	25.5	2.42	0.76	2.07	68	0.29	0.163
L78450E 78175N	Soil		1.99	13.50	22.07	188.5	222	16.6	9.0	677	2.44	5.6	0.9	1.7	3.6	17.3	1.97	0.60	0.48	47	0.18	0.132
L78450E 78200N	Soil		1.33	10.41	19.81	159.0	196	18.9	8.3	574	2.43	5.1	0.6	3.7	3.2	22.9	1.98	0.88	0.44	44	0.22	0.163
L78450E 78225N	Soil		2.39	7.25	24.86	117.9	199	12.6	6.1	248	2.59	3.5	0.5	3.4	2.6	20.9	0.69	0.62	0.47	53	0.20	0.071
L78450E 78250N	Soil		1.00	11.12	22.63	245.7	188	17.2	9.2	481	2.72	13.3	0.6	16.7	3.2	20.6	1.90	1.14	0.44	49	0.21	0.264
L78450E 78275N	Soil		0.87	34.98	53.83	526.2	448	52.2	23.1	1324	3.96	3.3	0.5	3.3	3.1	73.5	6.00	0.26	0.30	93	0.79	0.223
L78450E 78300N	Soil		2.91	13.41	26.86	389.8	351	18.4	7.2	332	2.50	4.6	1.3	9.2	3.7	15.2	3.59	1.27	0.45	45	0.17	0.145
L78450E 78325N	Soil		5.23	14.24	34.59	3643	188	28.2	10.6	567	2.95	4.6	0.9	3.6	4.1	24.3	9.89	0.74	0.45	56	0.26	0.075
L78450E 78350N	Soil		1.03	57.75	39.81	458.3	161	65.5	26.9	626	4.40	2.9	0.5	2.3	3.2	96.8	3.27	0.41	0.27	110	0.84	0.138
L78450E 78375N	Soil		1.27	17.18	25.13	500.6	310	30.6	15.0	833	3.19	4.7	0.6	1.3	2.9	39.1	6.80	0.62	0.43	64	0.42	0.152
L78450E 78400N	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
L78450E 78425N	Soil		1.06	8.30	33.74	514.6	415	9.8	6.3	937	2.03	6.7	0.6	2.3	2.1	27.0	10.09	1.10	0.83	36	0.23	0.179
L78450E 78450N	Soil		0.92	7.66	29.28	369.9	295	6.1	5.2	1696	1.64	15.3	0.5	1.5	1.9	17.9	24.58	1.05	0.41	28	0.14	0.227
L78450E 78475N	Soil		0.83	8.18	22.50	315.9	146	10.1	6.5	726	1.81	11.6	0.4	1.0	2.4	25.0	8.19	0.60	0.38	32	0.23	0.234
L78450E 78500N	Soil		0.59	9.20	32.55	322.4	188	11.6	6.7	759	2.11	10.2	0.8	1.6	2.9	29.0	4.71	0.89	0.52	36	0.28	0.245
L78450E 78525N	Soil		0.98	11.58	19.61	251.9	345	11.9	7.5	485	2.11	4.8	0.5	1.3	2.9	18.7	3.98	1.05	0.36	40	0.17	0.128
L78450E 78550N	Soil		0.43	9.79	14.05	326.1	160	9.8	7.3	1078	2.04	8.2	0.4	1.6	2.5	19.1	4.62	0.61	0.33	37	0.15	0.374
L78450E 78575N	Soil		0.40	7.82	16.75	144.6	238	7.8	5.5	948	1.81	4.4	0.5	4.2	2.4	15.6	2.78	0.60	0.50	30	0.12	0.163
L78450E 78600N	Soil		0.48	10.13	15.24	169.6	251	10.4	6.4	820	1.93	5.6	0.7	3.4	3.5	17.1	2.90	1.09	0.39	31	0.13	0.164
L78450E 78625N	Soil		0.42	9.76	21.58	152.9	288	13.9	8.0	814	2.05	4.7	0.4	3.3	2.7	22.5	1.84	0.79	0.43	35	0.16	0.176
L78450E 78650N	Soil		0.42	8.77	17.91	155.0	272	13.2	7.3	696	1.95	5.5	0.6	22.9	3.2	18.1	2.07	0.88	0.40	34	0.14	0.230
L78450E 78675N	Soil		0.52	13.56	24.83	178.3	391	14.5	9.8	515	2.25	8.0	0.5	3.8	2.7	15.3	2.54	1.18	0.36	38	0.11	0.311
L78450E 78700N	Soil		0.49	16.65	17.16	147.3	446	12.8	8.5	668	2.28	9.6	0.7	2.7	3.2	9.9	1.98	1.12	0.32	37	0.07	0.390
L78450E 78725N	Soil		0.28	16.04	16.70	143.2	251	17.0	11.1	642	2.38	4.9	0.4	9.4	2.3	22.7	1.51	0.53	0.39	43	0.19	0.149
L78450E 78750N	Soil		0.28	12.68	13.37	81.6	174	12.0	7.1	266	1.81	3.5	0.8	1.5	4.0	20.2	1.10	0.73	0.30	32	0.20	0.095
L78450E 78775N	Soil		0.35	13.23	13.03	104.1	377	13.5	7.1	344	1.96	4.5	1.1	4.6	3.8	25.7	1.01	0.99	0.35	33	0.23	0.179
L78450E 78800N	Soil		0.31	7.91	14.88	132.2	270	8.6	5.9	521	1.96	7.1	0.5	32.7	2.5	14.5	0.96	0.65	0.38	31	0.11	0.318
L78450E 78825N	Soil		0.26	8.44	11.51	111.7	159	9.8	6.4	454	1.84	5.8	0.6	3.8	3.3	15.5	0.77	1.04	0.28	32	0.14	0.199

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Project: Athabasca
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS VAN12002802.1

		Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	7AR
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	W
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	%
		MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.001
L78350E 78875N	Soil		12.5	13.8	0.34	89.7	0.064	<1	0.72	0.016	0.13	0.8	1.7	0.13	<0.02	15	<0.1	<0.02	2.8	
L78350E 78900N	Soil		13.5	11.4	0.26	49.6	0.056	<1	0.60	0.016	0.07	0.6	1.6	0.08	<0.02	42	<0.1	<0.02	2.6	
L78450E 78150N	Soil		6.7	26.5	0.66	121.7	0.198	1	2.55	0.019	0.10	4.1	2.8	0.20	<0.02	57	0.2	0.13	11.8	
L78450E 78175N	Soil		7.8	20.1	0.43	153.4	0.171	2	3.32	0.013	0.08	1.1	2.7	0.18	<0.02	59	<0.1	0.06	10.2	
L78450E 78200N	Soil		8.3	24.4	0.45	183.9	0.172	2	2.61	0.014	0.09	1.0	2.5	0.17	<0.02	50	0.1	0.04	9.6	
L78450E 78225N	Soil		7.3	23.0	0.37	106.6	0.183	1	1.99	0.014	0.07	0.9	2.1	0.16	<0.02	58	0.2	0.04	11.5	
L78450E 78250N	Soil		7.0	25.3	0.49	169.1	0.174	1	3.22	0.012	0.08	1.1	2.5	0.16	<0.02	72	0.1	0.09	11.2	
L78450E 78275N	Soil		12.3	59.3	1.65	349.0	0.260	2	3.50	0.029	0.18	0.9	4.2	0.25	<0.02	25	0.1	<0.02	10.4	
L78450E 78300N	Soil		10.5	25.4	0.42	110.5	0.178	2	3.85	0.012	0.08	1.2	3.4	0.19	<0.02	57	0.3	<0.02	11.1	
L78450E 78325N	Soil		10.0	35.0	0.76	122.3	0.188	2	3.18	0.015	0.14	1.2	3.0	0.22	<0.02	28	0.2	0.03	9.8	
L78450E 78350N	Soil		14.7	78.7	2.17	237.0	0.286	1	3.61	0.049	0.16	0.9	4.0	0.21	<0.02	19	<0.1	0.02	10.8	
L78450E 78375N	Soil		8.3	39.3	0.71	209.3	0.220	1	3.08	0.027	0.10	0.6	3.2	0.17	<0.02	46	<0.1	0.03	11.1	
L78450E 78400N	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
L78450E 78425N	Soil		5.0	12.8	0.23	190.4	0.166	2	2.72	0.019	0.07	0.4	2.2	0.15	<0.02	56	0.1	0.02	10.4	
L78450E 78450N	Soil		4.7	8.9	0.11	250.1	0.146	1	2.11	0.019	0.05	0.2	1.8	0.14	<0.02	80	<0.1	<0.02	10.2	
L78450E 78475N	Soil		6.2	17.1	0.30	241.6	0.127	1	1.88	0.019	0.08	0.5	2.1	0.15	<0.02	49	<0.1	0.03	8.0	
L78450E 78500N	Soil		6.1	15.5	0.27	203.4	0.143	3	2.94	0.022	0.10	0.5	2.4	0.15	<0.02	49	<0.1	0.03	9.0	
L78450E 78525N	Soil		6.6	16.9	0.30	148.5	0.149	2	2.63	0.016	0.08	0.6	2.3	0.16	<0.02	56	0.1	<0.02	9.0	
L78450E 78550N	Soil		5.3	16.1	0.29	185.9	0.133	1	2.56	0.013	0.08	0.7	2.4	0.22	<0.02	30	<0.1	0.05	8.4	
L78450E 78575N	Soil		6.6	14.8	0.25	145.2	0.108	<1	1.75	0.009	0.06	0.6	1.7	0.18	<0.02	65	<0.1	<0.02	7.3	
L78450E 78600N	Soil		6.6	15.6	0.27	160.6	0.130	2	2.95	0.014	0.06	0.8	2.3	0.20	<0.02	65	0.2	0.02	8.2	
L78450E 78625N	Soil		6.9	20.3	0.33	180.6	0.124	1	2.31	0.012	0.08	0.9	2.1	0.22	<0.02	62	0.1	<0.02	7.2	
L78450E 78650N	Soil		7.4	21.3	0.29	162.9	0.123	1	2.46	0.011	0.06	1.0	2.1	0.17	<0.02	71	0.1	0.02	7.6	
L78450E 78675N	Soil		4.8	19.3	0.31	208.1	0.153	2	3.43	0.011	0.06	0.5	2.0	0.17	<0.02	77	0.2	0.04	9.6	
L78450E 78700N	Soil		3.6	17.1	0.23	125.6	0.162	2	4.29	0.008	0.05	0.6	2.0	0.15	<0.02	91	0.2	0.05	10.5	
L78450E 78725N	Soil		6.7	30.2	0.50	145.0	0.136	1	2.04	0.013	0.11	0.9	2.0	0.20	<0.02	43	0.2	<0.02	7.1	
L78450E 78750N	Soil		11.2	19.8	0.42	105.3	0.110	<1	1.95	0.015	0.08	1.2	2.1	0.15	<0.02	21	0.1	<0.02	5.6	
L78450E 78775N	Soil		11.2	18.2	0.35	164.0	0.129	1	2.59	0.018	0.09	1.5	2.7	0.17	<0.02	60	0.2	0.02	7.2	
L78450E 78800N	Soil		6.1	15.3	0.20	200.6	0.123	<1	2.28	0.011	0.06	0.9	1.9	0.13	<0.02	89	0.2	<0.02	8.2	
L78450E 78825N	Soil		7.0	15.1	0.27	132.2	0.118	1	2.16	0.015	0.07	0.8	1.9	0.14	<0.02	75	0.2	<0.02	6.9	

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Project: Athabasca
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS VAN12002802.1

	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
	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
L78450E 78850N	Soil	0.40	12.19	29.27	129.5	475	7.5	5.4	845	1.83	6.5	0.6	1.3	3.0	8.8	1.32	1.07	0.40	28	0.06	0.368
L78450E 78875N	Soil	0.37	76.01	18.08	113.9	273	29.6	20.7	710	3.75	7.6	0.7	29.0	2.5	39.0	0.90	0.48	0.26	84	0.39	0.163
L78450E 78900N	Soil	0.29	44.33	11.87	83.1	204	18.1	13.4	490	2.91	3.6	1.2	15.0	3.6	33.1	0.71	0.27	0.25	57	0.33	0.105

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CERTIFICATE OF ANALYSIS VAN12002802.1

Method		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	7AR
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	W
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	%
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.001
L78450E 78850N	Soil	6.1	13.1	0.17	146.5	0.128	1	2.70	0.010	0.05	0.6	2.2	0.13	<0.02	125	0.3	<0.02	9.0	
L78450E 78875N	Soil	8.9	60.3	1.32	206.8	0.168	<1	2.26	0.009	0.29	0.8	3.3	0.21	<0.02	46	0.2	0.05	6.6	
L78450E 78900N	Soil	12.6	43.4	0.74	97.3	0.105	<1	1.25	0.010	0.12	1.5	2.5	0.12	<0.02	43	0.4	0.04	4.1	

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QUALITY CONTROL REPORT VAN12002802.1

		Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		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																						
L78100E 78375N	Soil		0.56	21.62	10.33	70.2	326	13.7	8.2	298	2.21	4.2	0.8	25.8	1.3	41.9	0.58	0.26	0.28	47	0.39	0.076
REP L78100E 78375N	QC		0.59	22.66	11.16	71.3	339	15.1	8.8	310	2.28	4.5	0.8	12.2	1.4	44.9	0.70	0.24	0.29	48	0.41	0.082
L78150E 78200N	Soil		2.11	29.56	34.78	169.8	241	17.3	11.8	597	2.84	10.8	0.5	48.7	2.5	26.6	2.69	0.46	0.84	54	0.31	0.102
REP L78150E 78200N	QC		2.26	28.96	34.40	177.6	200	16.8	11.7	588	2.84	10.9	0.5	43.8	2.5	26.8	2.54	0.51	0.81	54	0.31	0.111
L78150E 78250N	Soil		2.11	56.76	3631	721.8	12315	10.8	6.3	326	2.71	27.4	0.9	12797	2.4	23.7	7.37	5.69	15.95	55	0.31	0.104
REP L78150E 78250N	QC																					
L78250E 78200N	Soil		7.42	20.88	90.96	622.0	1088	19.5	10.9	943	3.31	8.7	1.0	134.3	3.2	28.6	6.24	0.71	1.97	52	0.23	0.137
REP L78250E 78200N	QC		7.96	21.74	94.81	663.9	1086	19.3	11.3	972	3.35	9.1	1.1	80.3	3.2	31.0	6.08	0.76	2.05	53	0.23	0.144
L78250E 78275N	Soil		21.89	41.27	3882	1401	95821	7.7	8.0	1461	8.28	129.9	1.8	1168	3.1	17.6	15.56	1.85	248.5	39	0.10	0.141
REP L78250E 78275N	QC																					
L78250E 78575N	Soil		0.46	24.64	21.91	99.1	311	14.4	8.4	526	2.31	3.7	6.3	9.9	4.5	49.6	1.43	0.32	0.35	40	0.51	0.117
REP L78250E 78575N	QC		0.48	24.90	22.54	99.7	333	15.5	8.6	528	2.34	3.3	6.3	7.6	4.4	49.7	1.32	0.31	0.34	41	0.51	0.117
L78350E 78625N	Soil		0.14	7.59	8.10	57.3	161	7.6	4.5	242	1.34	2.1	0.4	1.5	2.9	17.7	0.37	0.15	0.19	26	0.19	0.072
REP L78350E 78625N	QC		0.16	7.46	8.34	55.9	162	7.0	4.0	243	1.34	1.9	0.4	2.0	3.0	17.4	0.34	0.19	0.20	26	0.20	0.074
L78450E 78200N	Soil		1.33	10.41	19.81	159.0	196	18.9	8.3	574	2.43	5.1	0.6	3.7	3.2	22.9	1.98	0.88	0.44	44	0.22	0.163
REP L78450E 78200N	QC		1.26	10.48	18.84	155.5	191	19.5	8.7	569	2.40	5.2	0.6	2.8	3.2	20.9	1.90	0.94	0.41	44	0.21	0.154
L78450E 78775N	Soil		0.35	13.23	13.03	104.1	377	13.5	7.1	344	1.96	4.5	1.1	4.6	3.8	25.7	1.01	0.99	0.35	33	0.23	0.179
REP L78450E 78775N	QC		0.37	13.93	13.76	107.5	395	13.5	7.2	355	1.99	4.5	1.1	2.9	4.0	25.5	1.05	1.03	0.37	33	0.23	0.186
L78450E 78900N	Soil		0.29	44.33	11.87	83.1	204	18.1	13.4	490	2.91	3.6	1.2	15.0	3.6	33.1	0.71	0.27	0.25	57	0.33	0.105
REP L78450E 78900N	QC		0.31	46.25	12.45	86.6	205	19.0	13.9	517	2.83	3.5	1.1	28.6	3.0	31.7	0.74	0.28	0.22	55	0.34	0.109
Reference Materials																						
STD DS9	Standard		13.45	115.0	125.9	327.8	1840	43.8	8.1	582	2.30	26.6	2.7	116.7	6.7	72.5	2.29	5.24	6.08	38	0.74	0.087
STD DS9	Standard		14.11	106.9	127.3	319.9	1897	39.9	7.5	608	2.37	24.8	2.9	121.2	7.1	77.2	2.35	5.15	5.97	43	0.78	0.087
STD DS9	Standard		12.88	105.2	120.8	294.9	1838	40.7	7.5	572	2.25	24.5	2.6	106.0	6.1	70.4	2.27	4.98	5.76	39	0.72	0.084
STD DS9	Standard		14.34	115.2	127.9	314.6	1942	43.1	8.1	595	2.36	25.3	3.0	129.1	7.5	73.1	2.30	5.19	6.78	40	0.75	0.088
STD GC-7	Standard																					
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Project: Athabasca
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	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	7AR
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	W
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	%
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.001
Pulp Duplicates																			
L78100E 78375N	Soil	7.6	32.3	0.62	85.4	0.076	<1	1.20	0.011	0.11	1.7	2.2	0.11	<0.02	59	<0.1	0.03	4.3	
REP L78100E 78375N	QC	8.0	33.5	0.64	89.9	0.081	1	1.24	0.011	0.11	1.6	2.4	0.11	<0.02	85	0.1	<0.02	4.6	
L78150E 78200N	Soil	8.5	33.9	0.80	91.6	0.089	1	1.44	0.009	0.17	3.2	2.9	0.17	<0.02	39	<0.1	0.07	5.1	
REP L78150E 78200N	QC	8.7	34.2	0.78	85.4	0.100	<1	1.39	0.009	0.17	3.5	2.8	0.17	<0.02	24	<0.1	0.03	5.0	
L78150E 78250N	Soil	8.3	22.2	0.59	52.1	0.061	1	1.07	0.009	0.10	>100	2.0	0.13	0.02	9929	0.7	0.33	3.9	0.022
REP L78150E 78250N	QC																		0.020
L78250E 78200N	Soil	10.3	25.9	0.63	155.9	0.159	2	3.37	0.016	0.15	9.2	3.2	0.27	<0.02	55	<0.1	0.19	10.3	
REP L78250E 78200N	QC	10.5	26.5	0.64	163.1	0.170	2	3.37	0.016	0.15	9.5	3.3	0.32	<0.02	82	0.1	0.22	10.9	
L78250E 78275N	Soil	8.3	16.5	0.25	98.9	0.101	2	1.81	0.010	0.08	>100	0.9	0.25	0.07	*	1.3	2.93	8.6	0.043
REP L78250E 78275N	QC																		0.039
L78250E 78575N	Soil	19.4	25.3	0.63	189.1	0.120	2	1.76	0.017	0.29	1.5	3.1	0.31	<0.02	66	0.3	<0.02	5.9	
REP L78250E 78575N	QC	19.3	25.2	0.65	192.6	0.120	2	1.80	0.017	0.29	1.4	3.0	0.32	<0.02	48	0.3	<0.02	5.5	
L78350E 78625N	Soil	9.9	12.1	0.34	82.5	0.065	1	1.01	0.014	0.08	0.7	1.6	0.09	<0.02	18	0.1	0.02	3.8	
REP L78350E 78625N	QC	9.9	13.1	0.33	82.1	0.064	<1	1.00	0.013	0.08	0.8	1.6	0.10	<0.02	18	<0.1	<0.02	3.4	
L78450E 78200N	Soil	8.3	24.4	0.45	183.9	0.172	2	2.61	0.014	0.09	1.0	2.5	0.17	<0.02	50	0.1	0.04	9.6	
REP L78450E 78200N	QC	7.8	23.3	0.44	175.7	0.161	1	2.60	0.013	0.09	0.9	2.2	0.16	<0.02	62	0.2	0.04	9.5	
L78450E 78775N	Soil	11.2	18.2	0.35	164.0	0.129	1	2.59	0.018	0.09	1.5	2.7	0.17	<0.02	60	0.2	0.02	7.2	
REP L78450E 78775N	QC	11.7	18.6	0.36	172.0	0.133	1	2.62	0.018	0.09	1.2	2.8	0.17	<0.02	58	0.2	0.02	7.4	
L78450E 78900N	Soil	12.6	43.4	0.74	97.3	0.105	<1	1.25	0.010	0.12	1.5	2.5	0.12	<0.02	43	0.4	0.04	4.1	
REP L78450E 78900N	QC	12.7	44.1	0.76	102.1	0.103	<1	1.27	0.009	0.13	1.2	2.5	0.12	<0.02	43	0.3	0.05	4.1	
Reference Materials																			
STD DS9	Standard	15.0	118.5	0.62	304.4	0.127	3	1.02	0.094	0.41	2.9	2.5	5.53	0.15	218	5.5	4.91	4.9	
STD DS9	Standard	15.4	125.7	0.63	311.8	0.126	3	1.02	0.093	0.41	2.9	2.8	5.86	0.15	214	5.5	5.45	4.9	
STD DS9	Standard	13.3	115.3	0.61	304.9	0.111	3	0.94	0.080	0.39	3.1	2.6	5.54	0.16	257	5.1	4.90	4.4	
STD DS9	Standard	16.4	127.6	0.63	327.9	0.134	2	0.99	0.083	0.40	3.1	2.6	5.58	0.16	213	5.5	5.33	4.8	
STD GC-7	Standard																		0.050
STD GC-7	Standard																		0.014
STD GC-7	Standard																		<0.001

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		1F30 Mo ppm 0.01	1F30 Cu ppm 0.01	1F30 Pb ppm 0.01	1F30 Zn ppm 0.1	1F30 Ag ppb 2	1F30 Ni ppm 0.1	1F30 Co ppm 0.1	1F30 Mn ppm 1	1F30 Fe % 0.01	1F30 As ppm 0.1	1F30 U ppm 0.1	1F30 Au ppb 0.2	1F30 Th ppm 0.1	1F30 Sr ppm 0.5	1F30 Cd ppm 0.01	1F30 Sb ppm 0.02	1F30 Bi ppm 0.02	1F30 V ppm 2	1F30 Ca % 0.01	1F30 P % 0.001
STD GC-7	Standard																				
STD DS9 Expected		12.84	108	126	317	1830	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	0.0819
BLK	Blank	<0.01	0.09	<0.01	<0.1	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
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.25	<0.01	0.5	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.03	<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
BLK	Blank																				
BLK	Blank																				

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		1F30 La ppm 0.5	1F30 Cr ppm 0.5	1F30 Mg % 0.01	1F30 Ba ppm 0.5	1F30 Ti % 0.001	1F30 B ppm 1	1F30 Al % 0.01	1F30 Na % 0.001	1F30 K % 0.01	1F30 W ppm 0.1	1F30 Sc ppm 0.1	1F30 Tl ppm 0.02	1F30 S % 0.02	1F30 Hg ppb 5	1F30 Se ppm 0.1	1F30 Te ppm 0.02	1F30 Ga ppm 0.1	7AR W % 0.001
STD GC-7	Standard																		<0.001
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	
BLK	Blank	<0.5	0.6	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	
BLK	Blank	<0.5	0.8	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	6	<0.1	<0.02	<0.1	
BLK	Blank	<0.5	0.7	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	
BLK	Blank																		<0.001
BLK	Blank																		0.001