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ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING, PROSPECTING AND MAPPING

at the

VIVI PROPERTY

Vivi 1-2	YB89421-YB89422
11-12	YB89431-YB89432
19-30	YB89431-YB89432
Has 1-54	YD112231-YD112284

NTS 105A/13

Latitude 60°57'N; Longitude 129°53'W

in the

Watson Lake Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

WOLVERINE MINERALS CORP.

and

STRATEGIC METALS LTD.

by

H. Smith, B.Sc. Geology, P.Geo.

April 2012

CONTENTS

	<u>PAGE</u>
INTRODUCTION	1
PROPERTY LOCATION, CLAIM DATA AND ACCESS	1
GEOMORPHOLOGY AND VEGETATION	2
PREVIOUS WORK	2
GEOLOGY	3
MINERALIZATION	5
SOIL GEOCHEMISTRY	6
DEPOSIT MODEL	7
DISCUSSION AND CONCLUSIONS	8
REFERENCES	10

APPENDICES

- I STATEMENT OF QUALIFICATIONS
- II ROCK SAMPLE DESCRIPTIONS
- III CERTIFICATES OF ANALYSIS

FIGURES

<u>No.</u>	<u>Description</u>	<u>Follows Page</u>
1	Property Location	1
2	Claim Locations	1
3	Tectonic Setting	3
4	Geology	4
5	Sample Locations	In pocket
6	Gold Geochemistry	5
7	Arsenic Geochemistry	5
8	Antimony Geochemistry	5
9	Silver Geochemistry	5
10	Copper Geochemistry	5
11	Lead Geochemistry	5

TABLES

<u>No.</u>	<u>Description</u>	<u>Page</u>
I	Lithological units	4
II	Property scale units	4
III	Rock sample thresholds	5
IV	Soil sample thresholds	6

INTRODUCTION

The Has and Vivi claims comprise what are referred to collectively as the Vivi property. The Vivi property is located in the Finlayson Lake District of southeast Yukon. The Vivi claims host a known gold occurrence while the Has claims were staked to cover potential along strike extensions of mineralization. Wolverine Minerals Corp. is the sole owner of the Vivi claims and can earn a 100% interest in the Has claims subject to an option agreement with Strategic Metals Ltd.

This report describes a work program that was conducted between: June 23 and July 2; July 23 and 25; and, on August 11 and 18, 2011. Work performed included soil sampling, prospecting and mapping. Archer, Cathro & Associates (1981) Limited completed the soil sampling. Wolverine hired two independent prospectors (R. Bilquest and L. Allen) to examine the Vivi property and an independent geologist (G. Belik) to map the property. The author directed this project, and her Statement of Qualifications appears in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Vivi property consists of 98 contiguous mineral claims, which are located at latitude 60°57'N and longitude 129°53'W on NTS map sheet 105A/13. The general location of the property is shown on Figure 1 while the locations of individual claims are illustrated on Figure 2. The Has and Vivi claims were staked under the Yukon Quartz Mining Act and are registered with the Watson Lake Mining Recorder. The Vivi claims are registered in the name of Wolverine, while the Has claims are registered in the name of Archer Cathro, which holds them in trust for Strategic. The claims cover an area of approximately 1980 ha (20 sq. km). Claim registration data are listed below.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Vivi 1-2	YB89421-YB89422	March 31, 2017
11-12	YB89431-YB89432	March 31, 2017
19-30	YB89431-YB89432	March 31, 2017
Has 1-54	YD112231-YD112284	March 31, 2016

* Expiry dates include 2011 work that has been filed for assessment credit.

The Vivi property lies four kilometres northwest of Hassleberg Lake in southeast Yukon (Figure 2). The property is located 120 km north-northwest of Watson Lake, 83 km south-southeast of Finlayson Lake and 37 km west of the junction between Robert Campbell Highway and the Nahanni Range Road.

In 2011, access to and from the property and support for a small fly camp were provided by a Hughes 500D helicopter owned and operated by Kluane Airways Ltd. from a seasonal base at the Inconnu Lodge, which lies 27 km northeast of the Finlayson Lake float plane dock and work yard.

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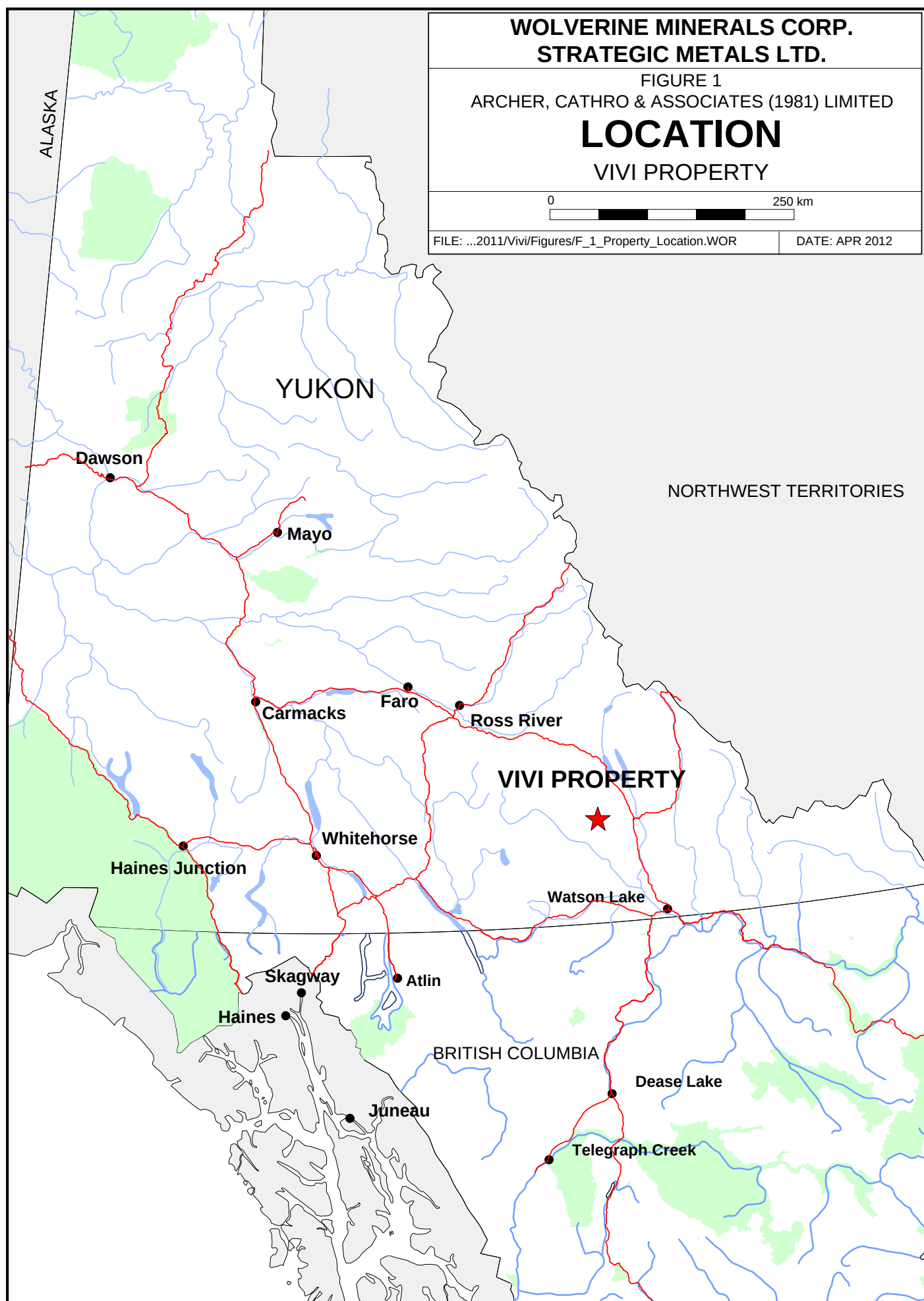
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

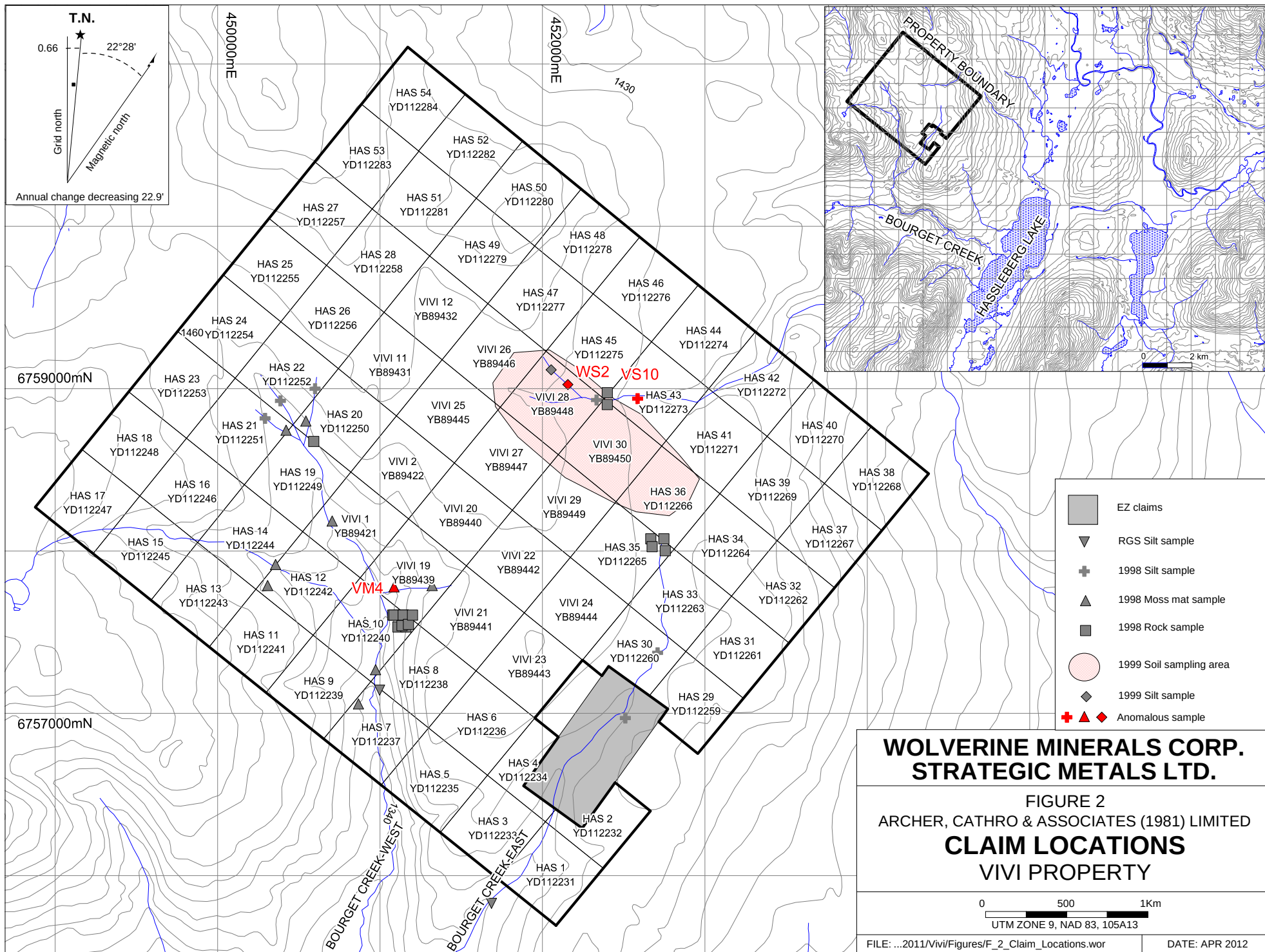
LOCATION
VIVI PROPERTY

0 250 km

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DATE: APR 2012





The soil sampling crew stayed at the Inconnu Lodge and accessed the property daily from June 23 to 29. R. Bilquest and L. Allen stayed in a small fly camp on the property from June 28 to July 2. G. Belik and an assistant visited the property from the Inconnu Lodge on July 23, 24 and 25. Follow up soil sampling was performed from the lodge on August 11 and 18. Re-fuelling of the helicopter was done at the Finlayson Lake work yard.

GEOMORPHOLOGY AND VEGETATION

The Vivi property is located in the Simpson Range of the Pelly Mountains in southeast Yukon. This area was affected by the Late Pleistocene McConnell Glaciation and the ice direction is thought to be northwest to southeast (Plouffe and Bond, 2004).

The property is drained by two branches of Bourget Creek and an unnamed creek, all of which are east-flowing tributaries of Hassleberg Lake (Figure 2). The creeks draining the property flow into tributaries of the Liard River and then into the Arctic Ocean via the Mackenzie River. Local elevations range from 1310 to 1550 m above sea level (asl). The lowest elevation lies in the southern part of the property between the branches of Bourget Creek. Treeline is at about 1450 m asl. Vegetation on the property ranges from stunted spruce with an understory of buckbrush and moss at lower elevations to buckbrush at higher elevations. Bedrock exposures on the property are limited to locally steep creek cuts. Subcrop exposures occur on a broad knoll in the centre of the property. The property is covered by unconsolidated colluvium and alluvial deposits.

The climate in the Vivi area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively mild, arctic cold fronts often cover the area and snowfall can occur in any month. The property is mostly snow free from June to September.

PREVIOUS WORK

The Vivi area has previously been explored for its jade and placer gold potential. There are numerous jade occurrences in the district, but only one area within a 40 km radius of the Vivi property has a placer history. The first placer claims were recorded in 1992 when J. Chen, S. Hearty and M. Starnes each staked claims on Bourget Creek-West (Figure 2). In 1994, J. Hearty staked another placer claim and in 1995, S. Hearty, W. Kastrukoff and R. Hearty staked more claims. No production has been reported from any of these claims.

The first recorded quartz claims (Howard) in the Vivi area were staked in 1980 by A. Black. The area was restaked by T. Liverton in 1986 as the Tim claims. No assessment reports were filed regarding any work that might have been performed during that time.

In 1992, J. Chen staked a single quartz claim two kilometres south of the original property. No work was reported from this claim.

At various times between 1993 and 1997, S. Hearty staked Mayling claims around the Chen claim and performed bulldozer trenching, prospecting, road building and geochemical sampling. There is no record of results from any of this work.

In 1997, S. Hearty restaked the Chen claim and staked the EZ claims to cover the Areas of the old Howard claims. Work performed on these claims included prospecting, geochemical sampling, hand and limited machine trenching. Two EZ claims are still in good standing at the time of this report. They straddle the eastern branch of Bourget Creek, on the southern edge of the property.

In 1997, the Geological Survey of Canada (GSC) performed a regional silt sediment sampling program on NTS 105A. One sample was collected from Bourget Creek-West and -East, and they returned anomalous values of 110 ppb gold with 25 ppm arsenic and 22 ppb gold with 152 ppm arsenic, respectively (Friske and Hornbrook, 1998).

In 1997, J.P. Ross staked the Vivi claims to the north of the EZ and Mayling claims to cover the potential source of the anomalous GSC results. Ross carried out geochemical sampling and prospecting (Ross, 1998). A total of 16 rock, 10 silt and 10 moss mat samples were collected (Figure 2). The best rock sample value was 212 ppb gold, while silt sampling yielded values up to 1494 ppb gold with 17 ppm antimony (VS10) and a moss mat sample returned 1635 ppb gold with 14 ppm antimony (VM4).

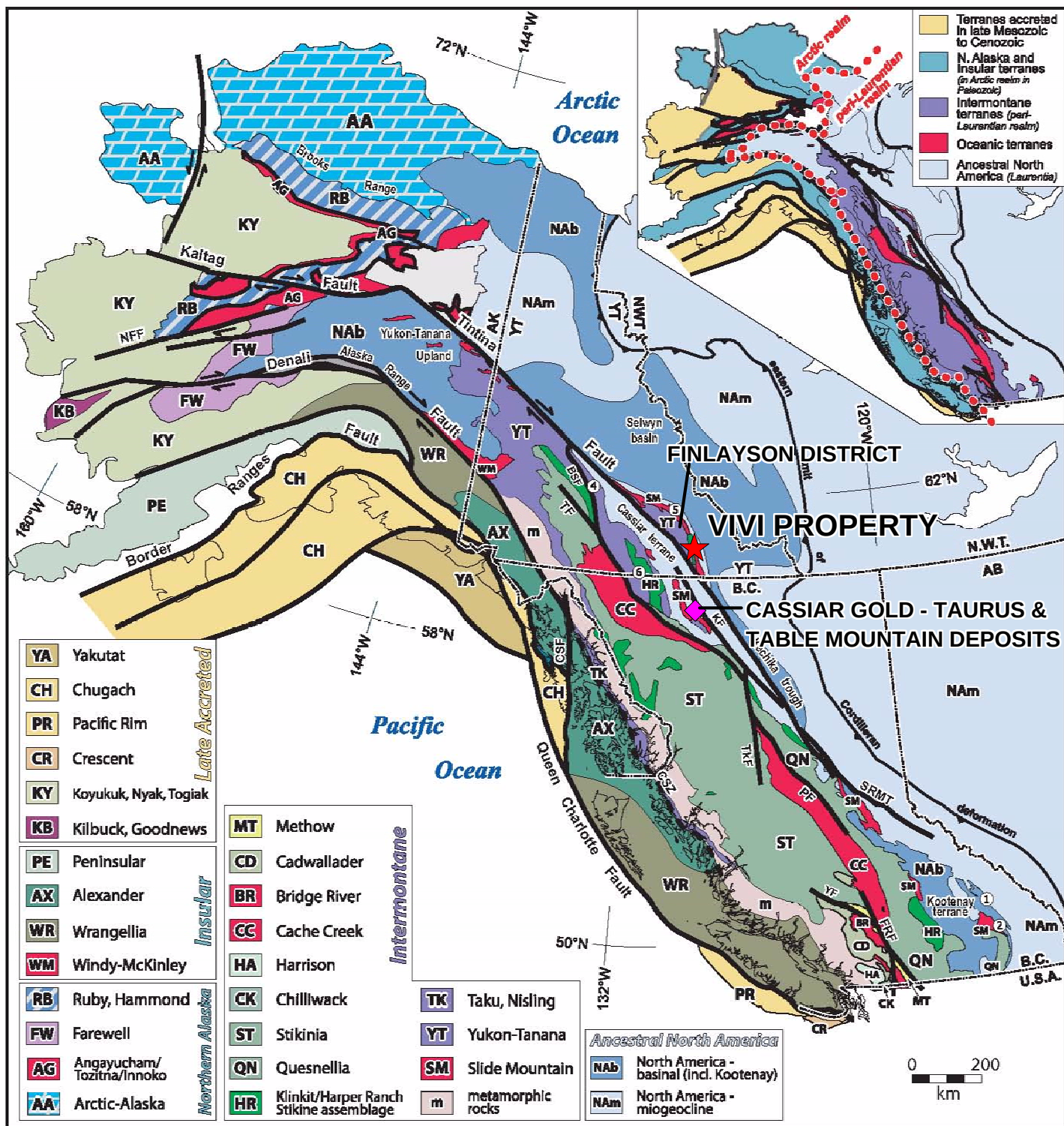
In 1998, Viceroy Exploration (Canada) Inc. signed a right of first refusal on the Vivi claims. On Viceroy's behalf Ross collected 21 rock, two silt and 117 soil samples. The soil samples were collected on the eastern side of the property (Figure 2), and for some reason only 59 soil samples were sent for analysis, with 10 of them yielding between 50 and 755 ppb gold (Ross, 1999). Rock sample values were uniformly low with the highest value being 10 ppb gold. One of the silt sample returned 300 ppb gold (WS2).

In 2000, T. Liverton performed a reconnaissance program in the Vivi property area (Liverton, 2001). This work covered the EZ, Jasper and current Vivi properties. Liverton identified talc and siderite altered ultramafics with carbonate pseudomorphing pyroxene on the Vivi property. He also noted two different kinds of mineralization: east-west striking, steeply shear zone hosted quartz veins; and, listwanite hosted thrust fault controlled mineralization.

In September 2010, Wolverine signed an option purchase agreement with Strategic for properties in the Dawson Range and Finlayson Districts. Strategic staked the Has claims in October 2010 and amended the option agreement with Wolverine to include those claims. In January 2011, Wolverine purchased the Vivi claims from the estate of J.P. Ross.

GEOLOGY

The Finlayson Lake District comprises an isolated outlier of Yukon-Tanana and Slide Mountain terranes and affiliated overlap assemblages (Figure 3). The district is bounded by the Tintina Fault to the southwest and the Inconnu Thrust Fault to the northeast.



After Nelson and Colpron (2007)

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FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
TECTONIC SETTING
VIVI PROPERTY

UTM ZONE 9, NAD 83, 105A/13

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DATE: APRIL 2012

Yukon-Tanana and Slide Mountain terranes represent continental arc and back-arc basin sequences that developed along the ancient Pacific margin of North America during Late Devonian and through Permian (Piercey *et al.*, 2006). Pericratonic rocks of Yukon-Tanana Terrane and oceanic rocks of Slide Mountain Terrane are juxtaposed against rocks of the North American continental margin sequence along the post-Late Triassic Inconnu Thrust Fault (Murphy *et al.*, 2006). Rocks of Yukon-Tanana and Slide Mountain terranes in the Finlayson Lake District are characterized by variably deformed and metamorphosed, lower greenschist to amphibolite facies metasedimentary and metavolcanic rocks and affiliated metaplutonic suites.

In 1966, the GSC published a geological map of the Vivi area (NTS map sheet 105A) at 1:250,000 scale (Deklerk and Traynor, 2005). In 2003, Gordey and Makepeace of the Yukon Geological Survey (YGS) completed a Yukon-wide geological compilation, which updated the lithological unit names in the Vivi area. Table I describes the main lithological units in the area.

Table I– Lithological units (after Gordey and Makepeace, 2003)

Map Suite	Age	Map Unit	Description
Anvil Suite	Carboniferous and Permian	CPA	Dominantly oceanic assemblage of mafic volcanics, ultramafics, cherts, pelite, limestone and gabbro.
Nasina Assemblage	Devonian, Mississippian and (?) Older	DMN	Graphitic quartzite and muscovite quartz-rich schist interspersed with marble.

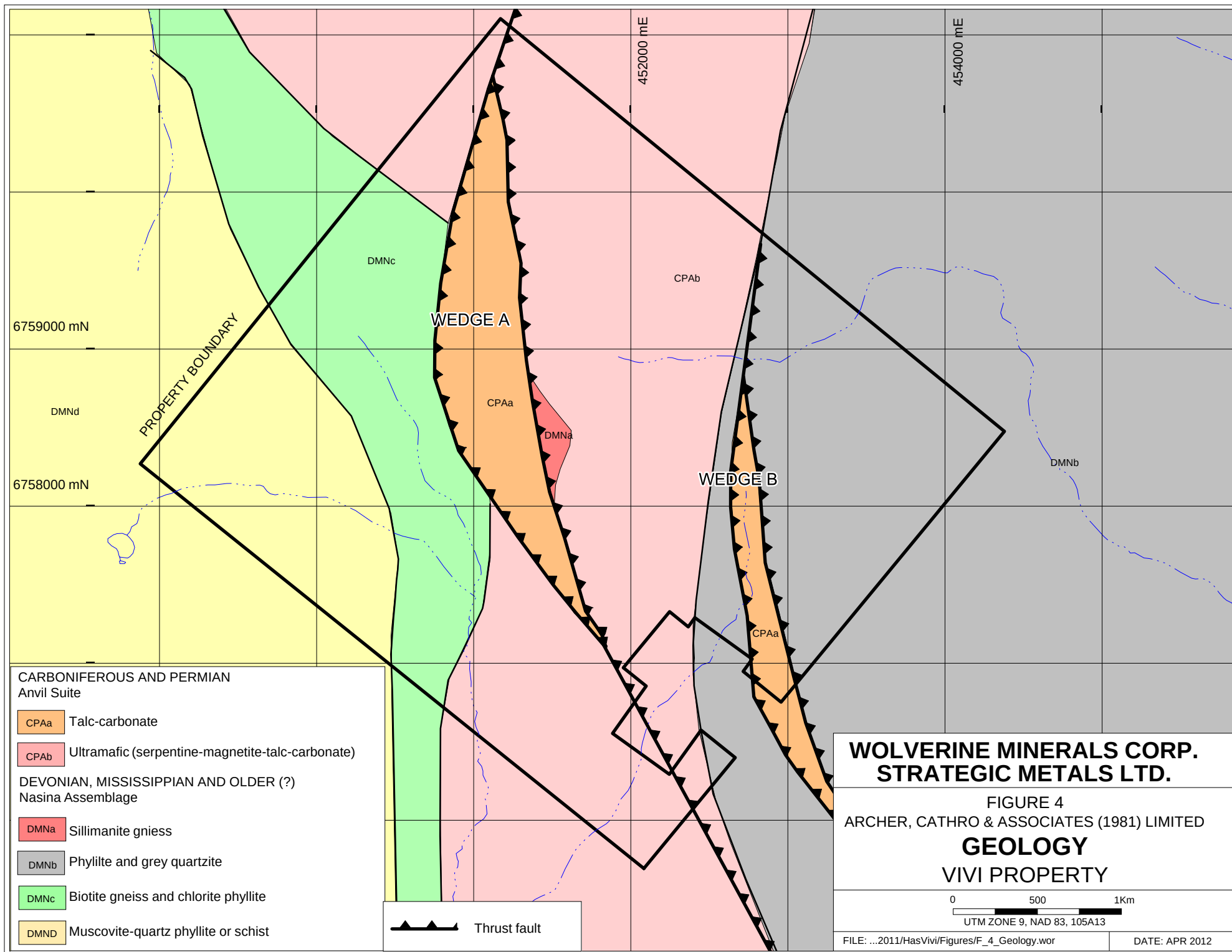
The YGS map covering the Vivi property area illustrates large packages of Anvil Suite and Nasina Assemblage juxtaposed by a northwest-trending thrust fault, which bisects the centre of the property.

In 2011, G.Belik spent three days mapping the Vivi property (Figure 4). The northwest-trending YGS fault was not mapped by Belik and is not thought to be representative of property-scale geology. Table II below lists units identified within the map area by Belik.

Table II– Property-scale units (after Belik, 2011)

Map Suite	Age	Map Unit	Description
Anvil Suite	Carboniferous and Permian	CPAa	Talc-carbonate
		CPAb	Ultramafic: serpentine-magnetite-talc-carbonate
Nasina Assemblage	Devonian, Mississippian and (?) Older	DMNa	Sillimanite gneiss
		DMNb	Phyllite and grey quartzite
		DMNc	Biotite gneiss and chlorite phyllite
		DMNd	Muscovite-quartz phyllite or schist

The Vivi property hosts a conformable package of Nasina Assemblage and Anvil Suite rocks. It is underlain by muscovite-quartz phyllite or schist (DMNd), which is overlain by a north-northwest oriented package of biotite gneiss and chlorite phyllite (DMNc). DMNc is overlain by



ultramafic serpentinite-magnetite-talc-carbonate rocks (CPAb) that are in turn overlain by phyllite and grey quartzite (DMNb).

Two wedges of thrust fault bounded, talc-carbonate altered ultramafics (listwanite) lie within the property. Wedge A lies in the centre of the property and is the larger of the two bodies. Wedge B lies in the southeast corner of the property. A small, triangular shaped area of sillimanite gneiss (DMNa) is contained within the hanging wall of Wedge A.

MINERALIZATION

To date, exploration on the Vivi property has focused on steeply dipping, east-west striking veins comprising white bull quartz or finely banded epithermal quartz with disseminated to blebby galena and pyrite.

During prospecting in 2011, 60 rock samples were collected from the Vivi property. Preparation of rock samples was carried out at ALS Minerals in Whitehorse, Yukon, where each sample was dried and fine crushed to better than 70% passing -2 mm before a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then sent to ALS Minerals in North Vancouver, British Columbia, where splits were analyzed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis and for 35 other elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (Au-AA24 and ME-ICP41).

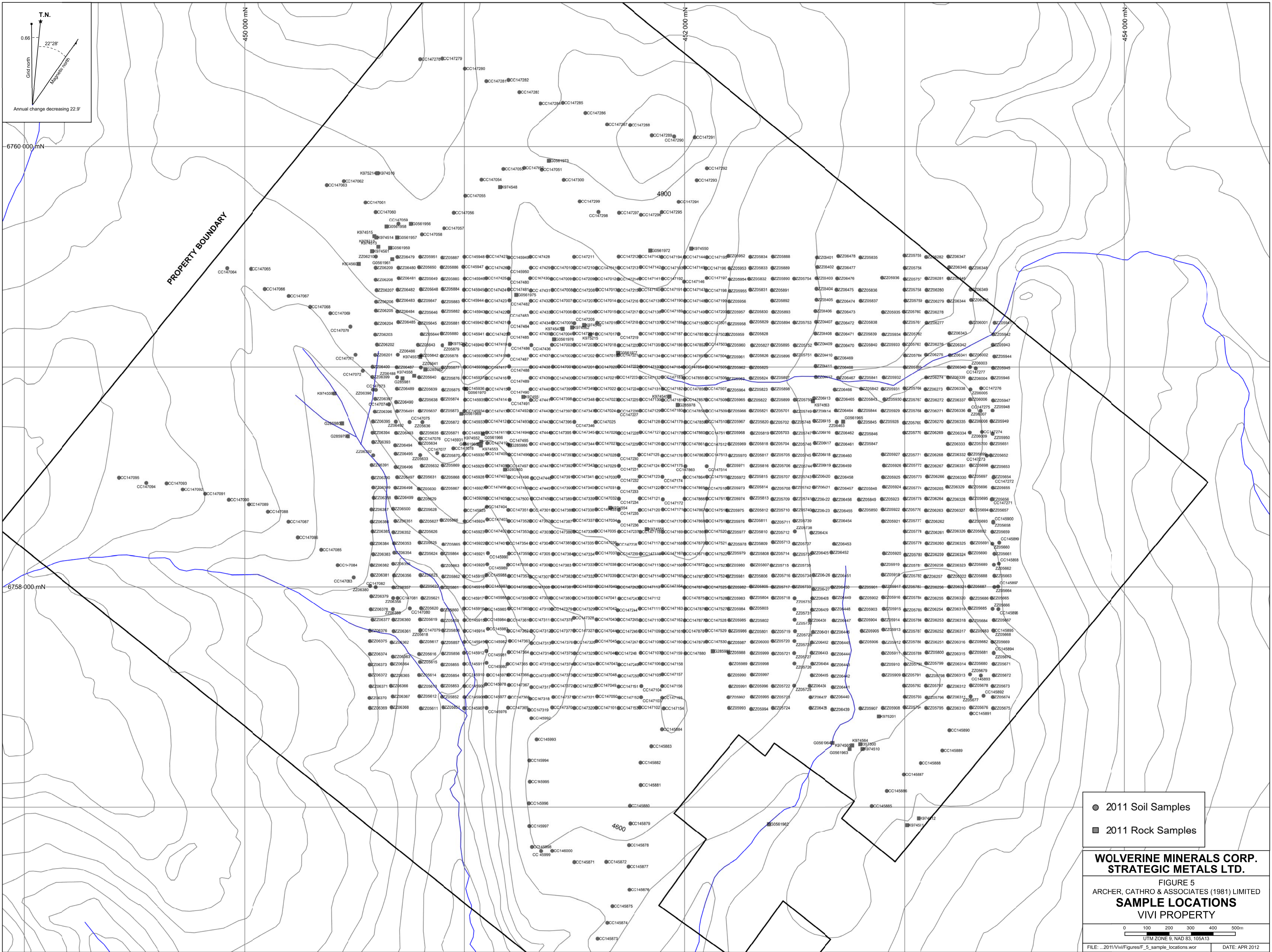
Rock sample locations are illustrated on Figure 5, rock sample descriptions are located in Appendix II and Certificates of Analysis are located in Appendix III. Thematic values for gold, arsenic, antimony, silver, copper and lead are illustrated on Figures 6 to 11, respectively. Table III lists rock sample thresholds used to describe results from this sampling.

Table III– Rock sample thresholds

Element	Weak	Moderate	Strong	Peak
Gold (ppb)	$100 \leq 200$	$200 \leq 500$	-	225
Arsenic (ppm)	$100 \leq 200$	$200 \leq 500$	≥ 500	518
Antimony (ppm)	$10 \leq 20$	$20 \leq 50$	≥ 50	52
Silver (ppm)	$0.5 \leq 1.0$	$1.0 \leq 2.0$	≥ 2.0	100
Copper (ppm)	$50 \leq 100$	$100 \leq 200$	-	142.5
Lead (ppm)	$50 \leq 100$	$100 \leq 200$	≥ 200	106,000

Results from the 2011 rock sampling program were mixed. In general, gold and copper values were weak while arsenic, antimony, silver and lead values were moderate to strong.

The highest gold value (0.225 g/t) was from a specimen of epithermal quartz collected northwest of Wedge A.



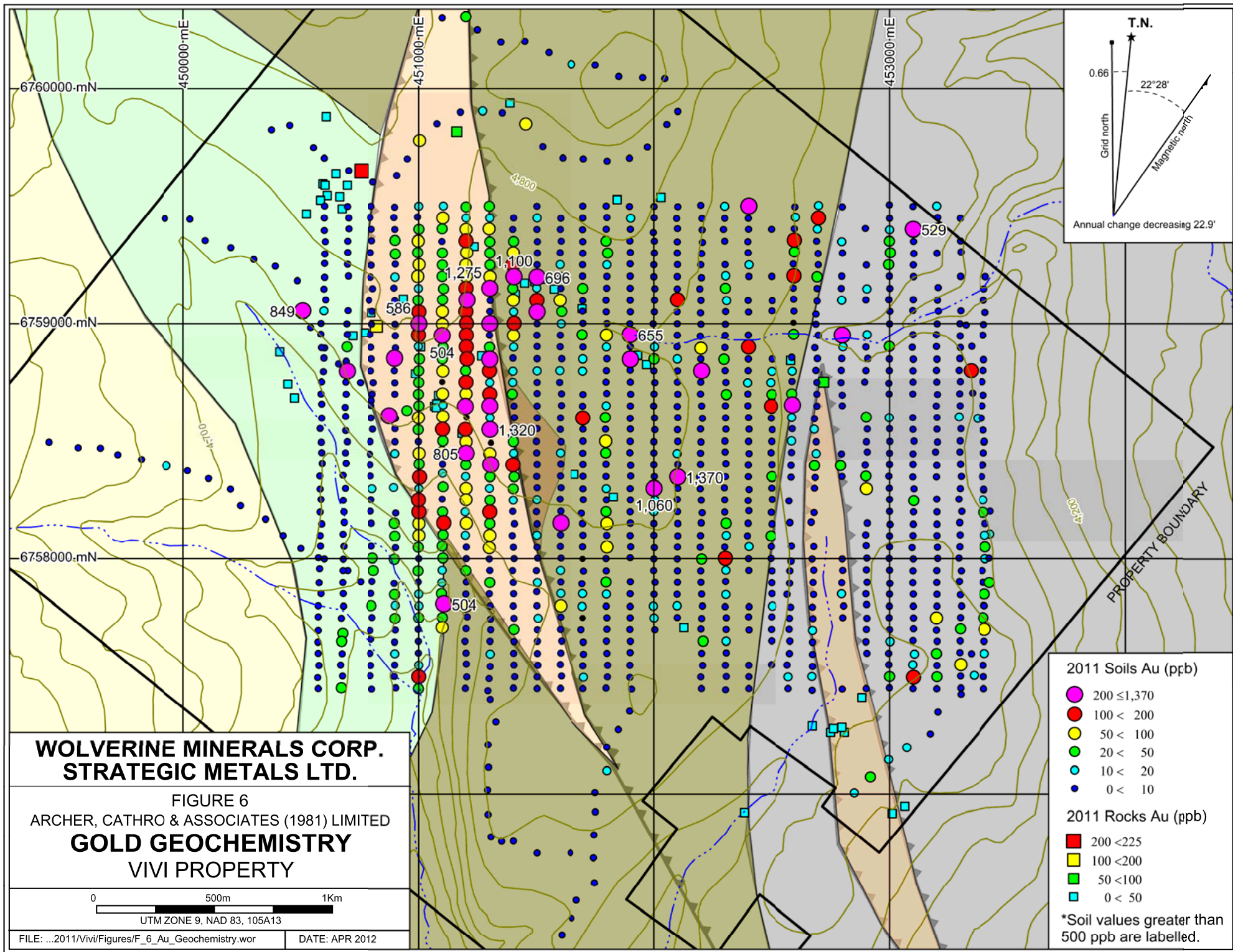
- 2011 Soil Samples
- 2011 Rock Samples

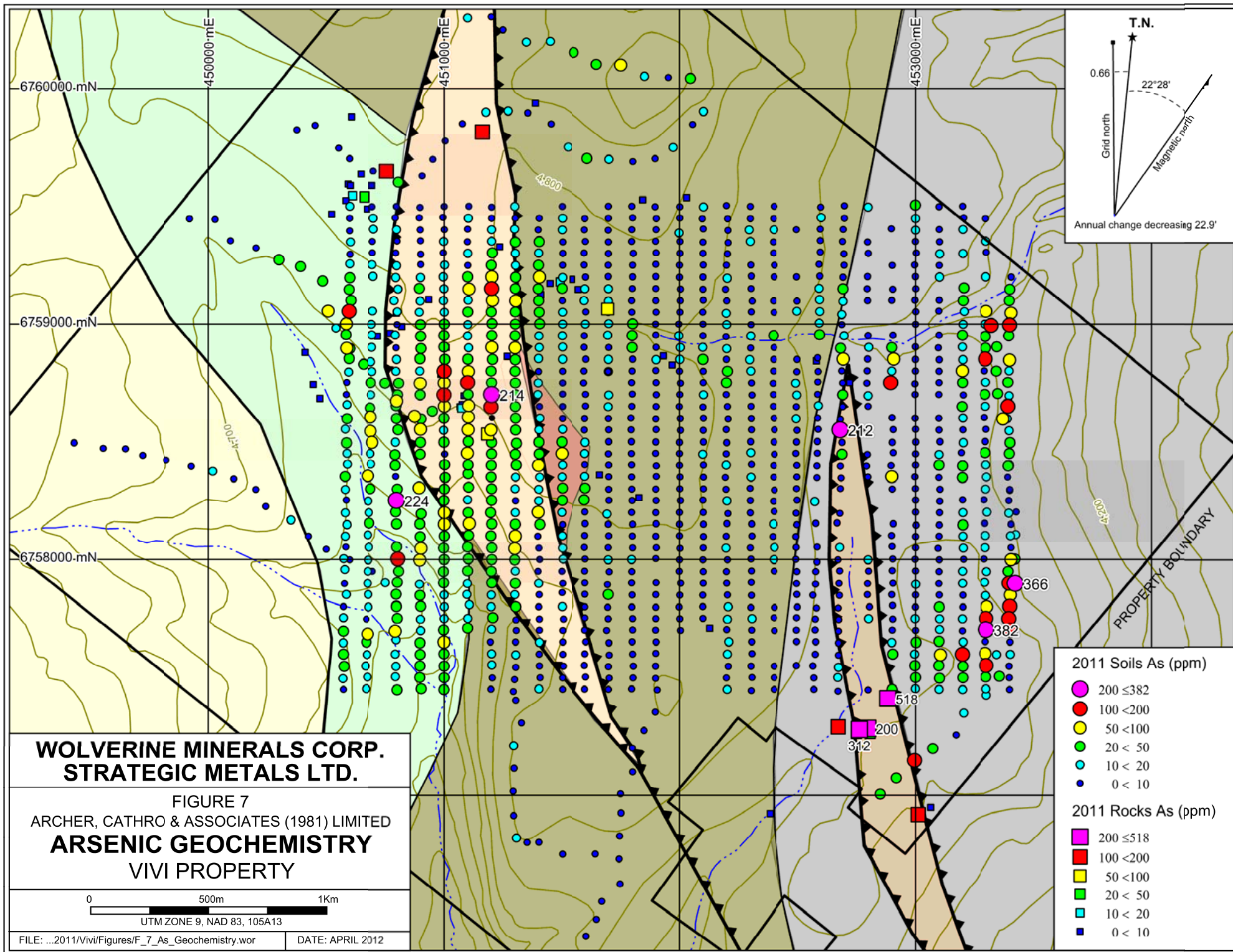
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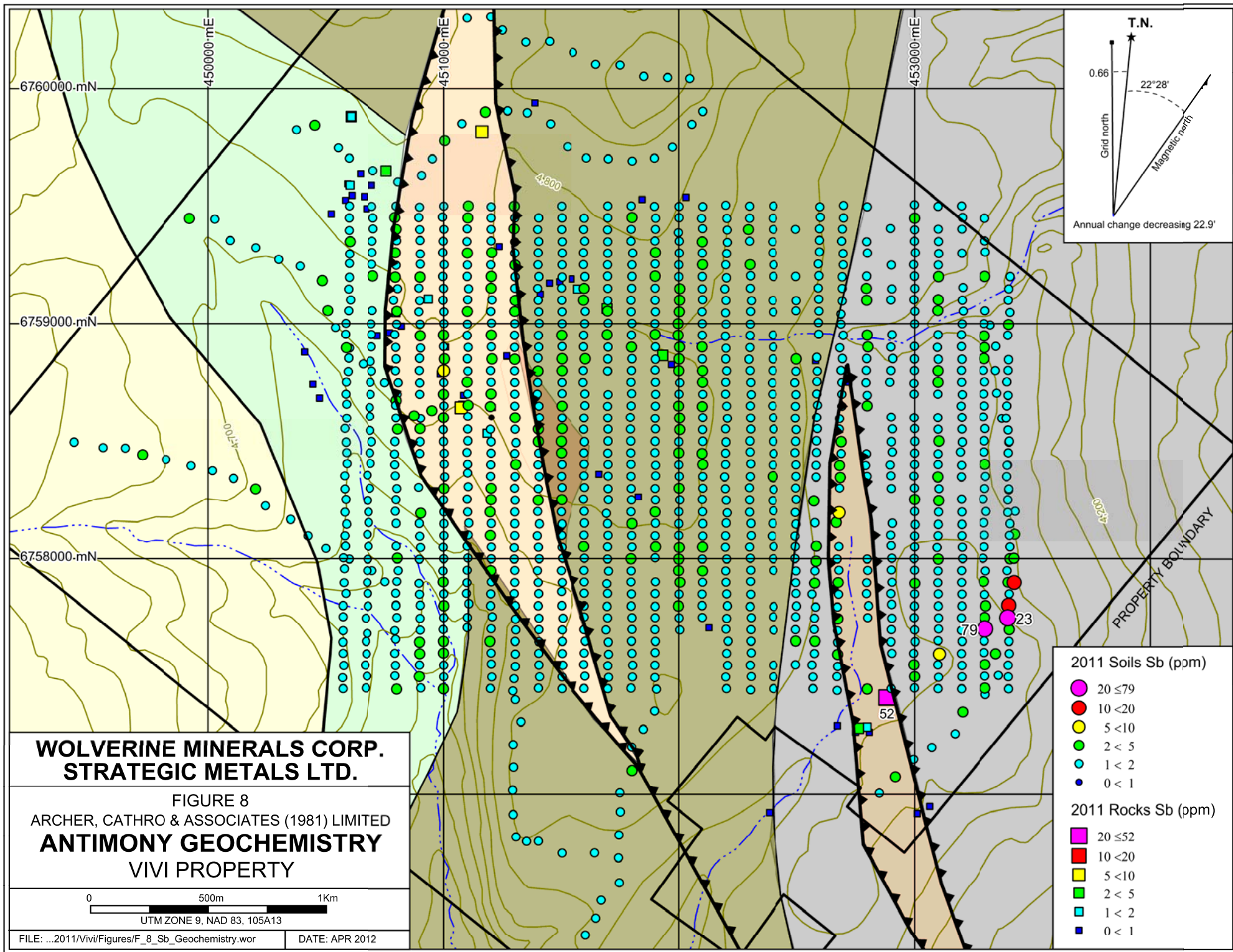
FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SAMPLE LOCATIONS
VIVI PROPERTY

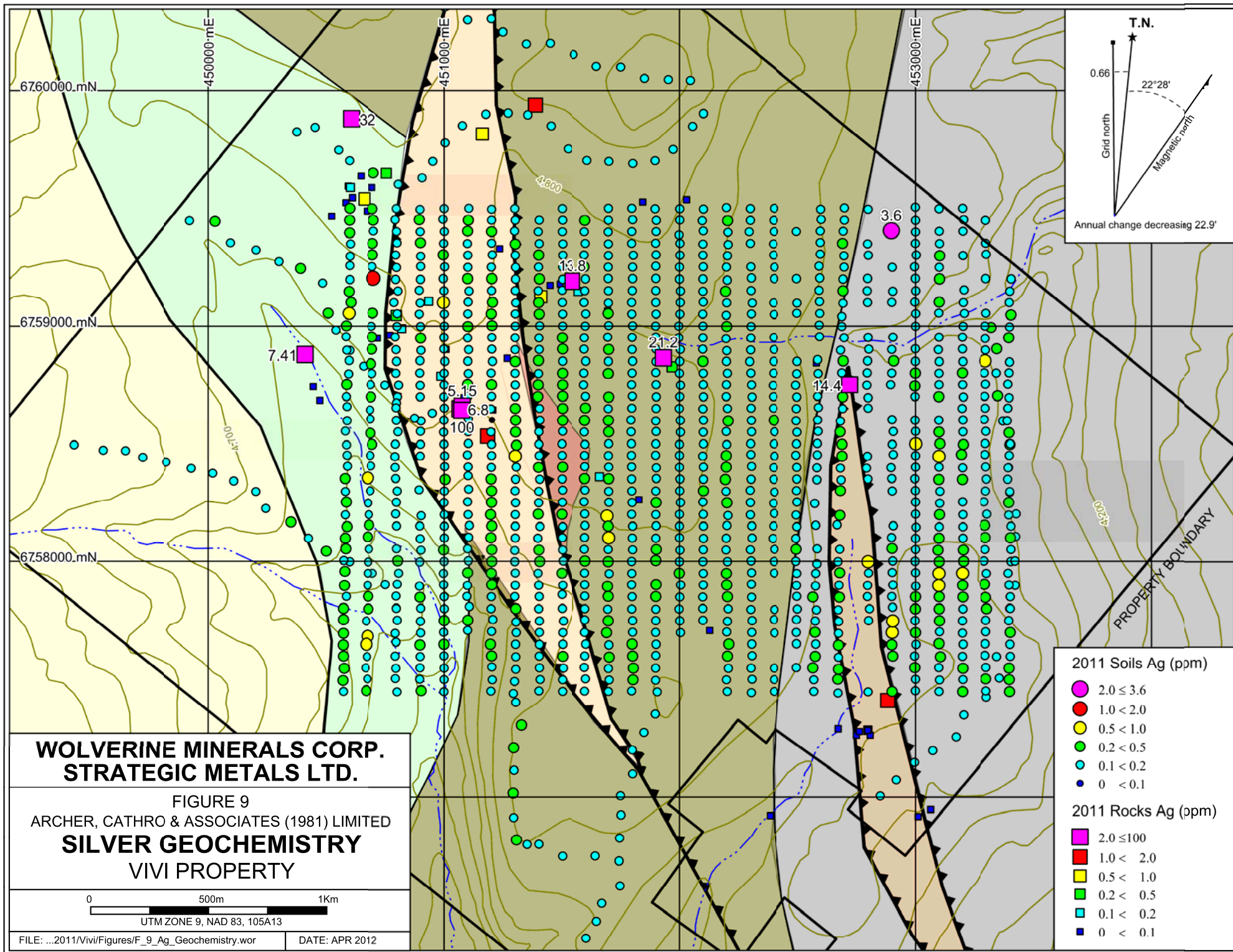
0 100 200 300 400 500m
UTM ZONE 9, NAD 83, 105A13

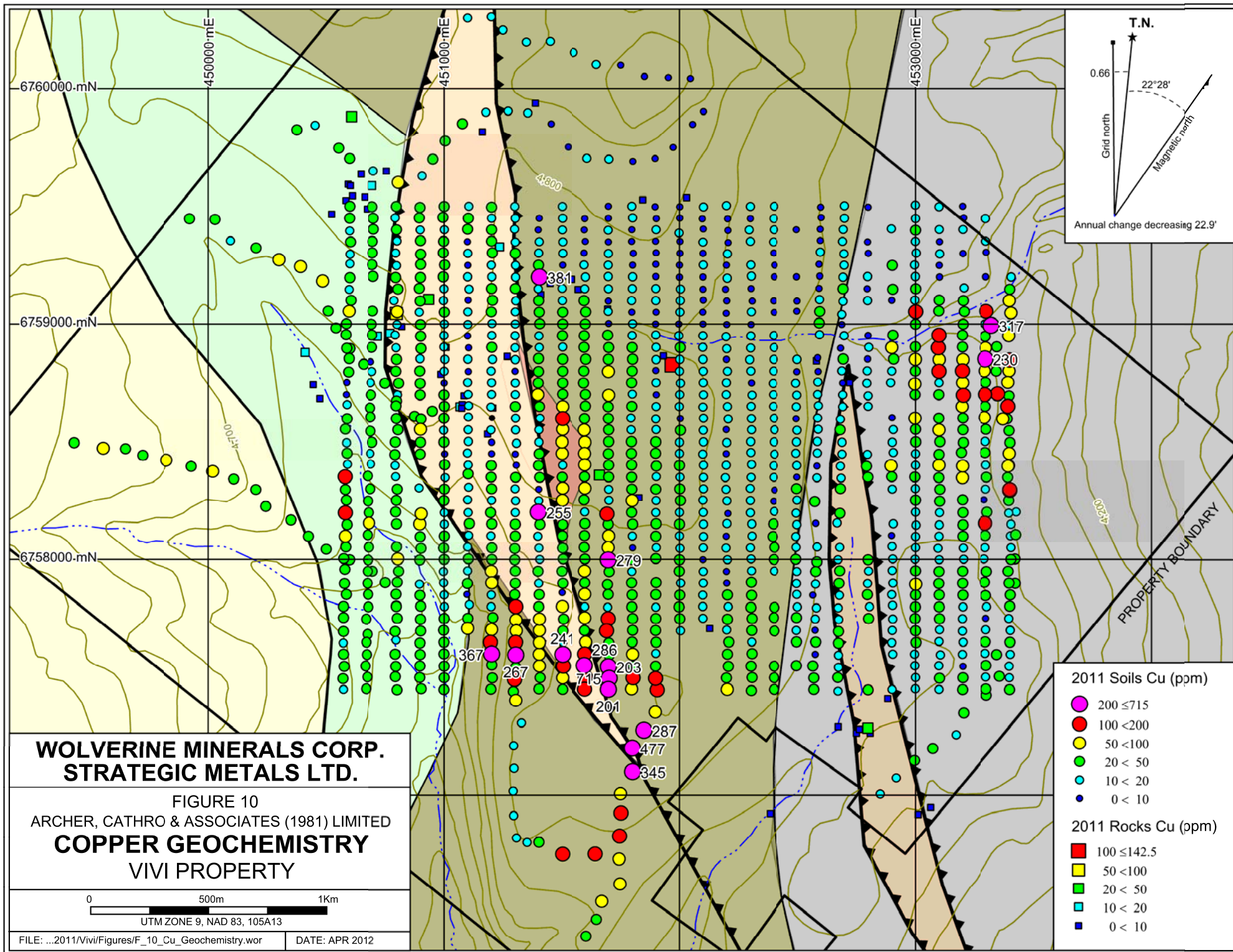
FILE: ...2011\IVI\Figures\F_5_sample_locations.wor DATE: APR 2012

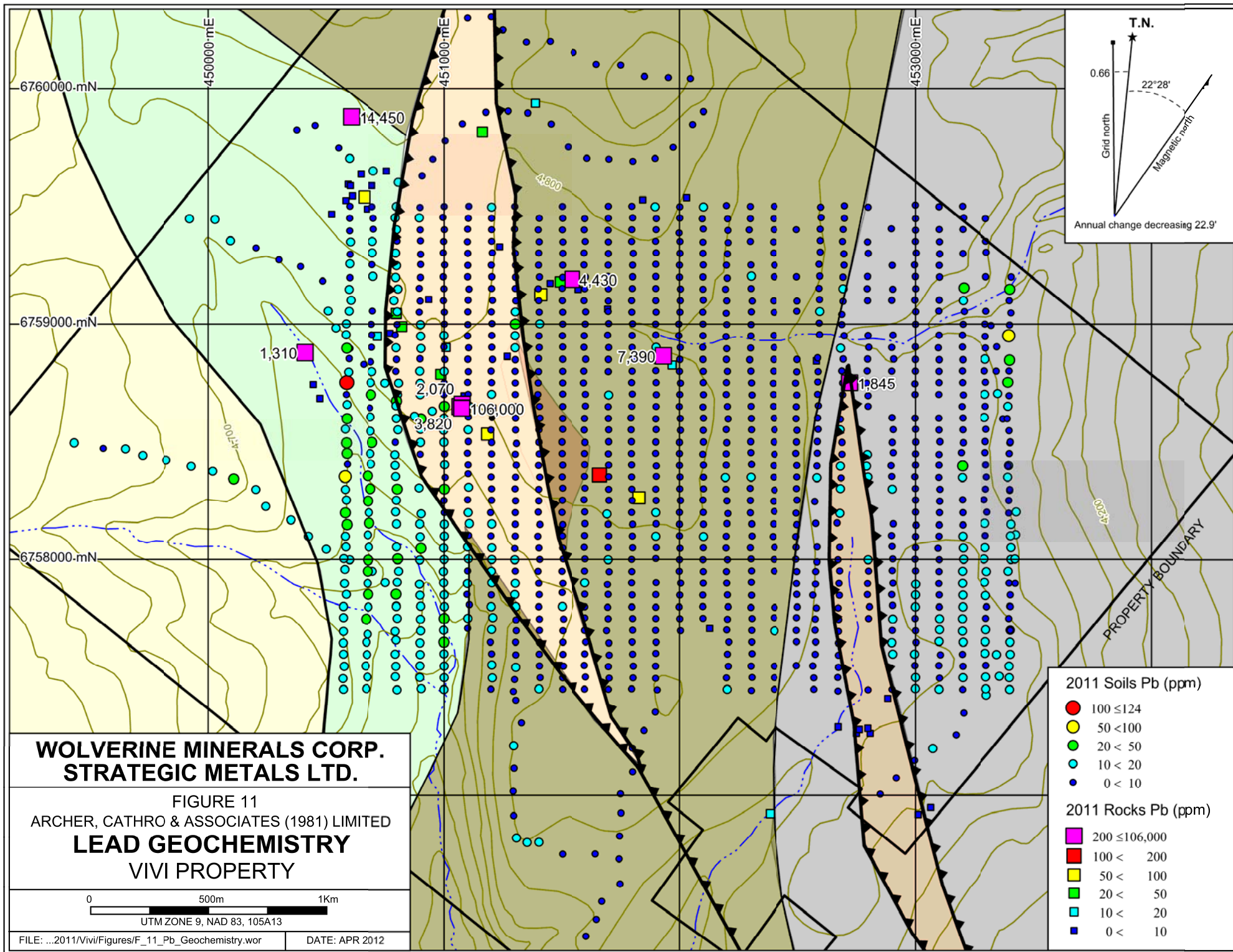












Multiple samples returned moderately anomalous arsenic values between 200 and 518 ppm. All of these samples lie within Wedge B. The arsenic anomaly is well correlated with a small cluster of strongly anomalous antimony values.

Moderately to strongly anomalous silver values primarily came from within, or downslope of, the listwanite wedges or creek gullies. Anomalous rock samples collected within the wedges ranged from 5.15 to 100 g/t silver while three rocks collected near creeks returned between 7.41 and 21.2 g/t silver.

Numerous samples from galena-bearing quartz veins returned 0.13 to 10.6% lead. Most of these values are scattered within an east-trending belt near the centre of the property. The highest value (10.6%) came from within Wedge A.

SOIL GEOCHEMISTRY

In 2011, 1333 soil samples were collected from the Vivi property. The samples were collected at 50 by 100 m spacings from a large grid in the centre of the property and at 100 m spacings from contour lines in the north, south and west parts of the property. Locations for all samples were established using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Samples were dug using a hand-held auger and were collected as deep in the soil profile as ground conditions allowed, which was typically between 40 and 70 cm depth. Each sample was placed into an individually pre-numbered Kraft paper bags.

All soil samples were sent to ALS Minerals, where they were dried, screened to -180 microns, dissolved in aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma with atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Certificates of Analysis are located in Appendix III. Soil sample locations are shown on Figure 5. Figures 6 to 11 illustrate gold, arsenic, antimony, silver, copper and lead geochemistry. Thresholds used for describing soil results are shown in Table IV.

Table IV– Soil sample thresholds

Element	Weak	Moderate	Strong	Peak
Gold (ppb)	$20 \leq 50$	$50 \leq 100$	≥ 100	1370
Arsenic (ppm)	$20 \leq 50$	$50 \leq 100$	≥ 100	382
Antimony (ppm)	$2 \leq 5$	$5 \leq 10$	≥ 10	79
Silver (ppm)	$0.2 \leq 0.5$	$0.5 \leq 1.0$	≥ 1.0	3.6
Copper (ppm)	$20 \leq 50$	$50 \leq 100$	≥ 100	715
Lead (ppm)	$20 \leq 50$	$50 \leq 100$	≥ 100	124

Many of the moderately to strongly anomalous gold-in-soil values are clustered around Wedge A. Significant values within this area range from 237 to 1320 ppb gold. Three isolated strongly anomalous gold values occur downslope (west) of Wedge A, while numerous strongly

anomalous samples were identified down-ice (east) of Wedge A. Anomalous gold-in-soil values are not associated with common pathfinder elements such as arsenic or antimony. The highest rock sample value (0.225 g/t) lies northwest of the main gold-in-soil anomaly and is not thought to be its source.

Arsenic-in-soil values on the property show good contrast between background and anomalous values. The centre of the soil grid is characterized by background values while the edges of the grid contain mostly moderately to strongly anomalous values. Two strongly anomalous values (214 and 212 ppm arsenic) lie within the listwanite wedges. The most significant cluster of arsenic values lies in the southeastern corner of the property. This cluster has numerous samples greater than 100 ppm, with a peak value of 382 ppm. Arsenic and antimony values are well correlated in the southeast corner of the property. The highest antimony value (79 ppm) lies within the arsenic cluster.

Silver-in-soil values were generally low, but include some moderate values and one strongly anomalous result (3.6 ppm), which lies in the northeast part of the soil grid. There is poor correlation between silver and other elements.

Two main areas host moderately to strongly anomalous copper-in-soil values. One area lies in the south-central part of the soil grid at the south end of Wedge A. The other area lies in the northeast corner of the soil grid. Anomalous copper-in-soil values range from 100 to 715 ppm.

The lead-in-soil values are low, even in areas with known galena-bearing quartz veins. A single strongly anomalous sample (124 ppm) lies downslope from Wedge A.

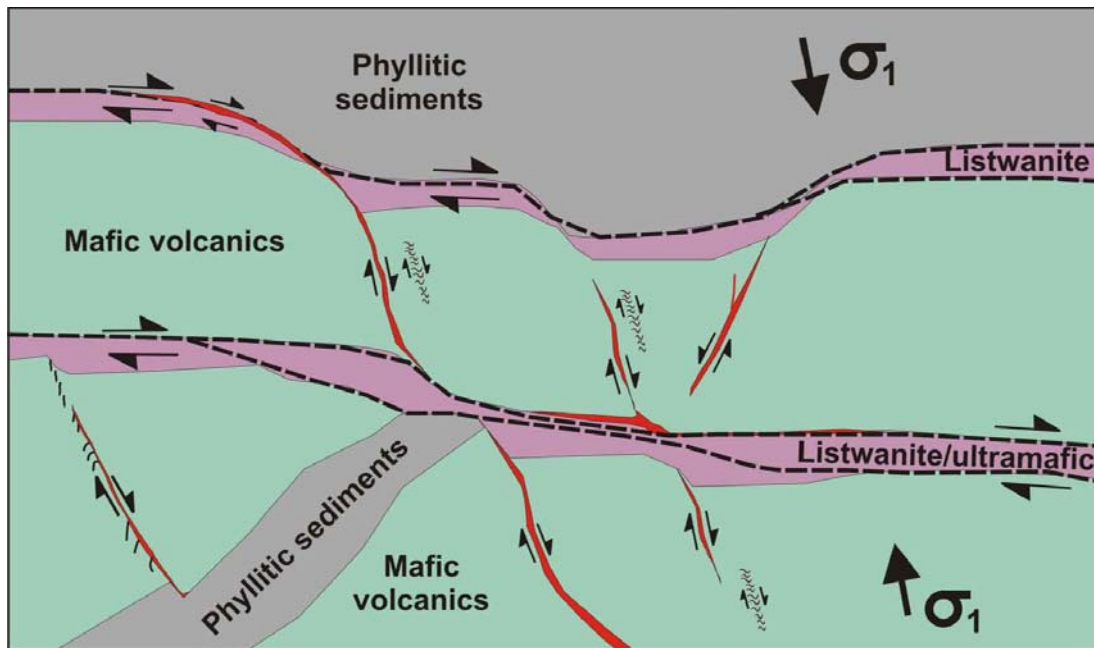
DEPOSIT MODEL

The best model for mineralization on the Vivi property is a Motherlode or listwanite-type deposit. The Motherload deposit was first identified in placer gold-rich areas of California. Prospecting near placer mines identified steeply dipping, structurally controlled gold bearing quartz veins, which range up to 15 m thick and up to 350 m long along a 150 km long trend. Individual deposits within the Motherlode district of California generally lie along a suture line, which marks a terrane boundary.

A nearby example of a Motherload deposit lies within the Cassiar Gold camp about 170 km south of the Vivi property (Figure 3). The Cassiar Gold camp lies within the Sylvester Allochthon of the Slide Mountain ophiolitic terrane. It is composed of stacked, shallow dipping thrust panels of Paleozoic to early Mesozoic mafic volcanic rocks, ultramafic sills and fine grained siliciclastic sediments. The allochthon has undergone greenschist metamorphism and gold mineralization is associated with Jurassic to Mesozoic deformation events. From 1979 to 2007, a total of 315,651 ounces of gold were mined from the camp (Bo, 2011).

Gold mineralization within the Cassiar Gold camp is hosted within quartz veins and shear zones in listwanite and fault zones. China Minerals Mining Corporation is exploring the Taurus and Table Mountain deposits at Cassiar Gold. The Taurus deposit has a 33.1 million tonne resource at 0.99 g/t gold and the Table Mountain deposit has an indicated resource of 21,471 tonnes at

18.02 g/t gold and an inferred resource of 65,757 tonnes at 24.3 g/t gold. The diagram below was taken from China Mineral's corporate presentation and represents the geological environment that the mineralization occurred in (Bo, 2011).



Gold mineralization at the Table Mountain and Taurus deposits is host within a series of steeply dipping mineralized shear systems in ultramafic rocks between shallowly dipping thrust surfaces that are localized along ultramafic-listwanite and sedimentary contacts. Quartz veins occur as east-northeast-trending extensional veins or as shear veins. The primary focus of exploration is shear zones with carbonate alteration.

DISCUSSION AND CONCLUSIONS

The Vivi property hosts two thrust fault bound wedges of listwanite-altered ultramafic rocks and numerous east-west trending quartz veins. Previous exploration on the property focussed on the veins.

The 2011 exploration program on the Vivi property was highly successful. The geochemical sampling program yielded significant gold values in areas of the Vivi property that have not previously been tested. Earlier workers determined that the area between VM4 and VS10 (shown on Figure 2) was likely the source of the anomalous values and required further examination; however, no additional work was documented. These historical silt and moss mat samples may be explained by the gold response associated with Wedge A.

Future work on the Vivi property should be done on a high priority basis. It should consist of diamond or reverse circulation drilling to test the listwanite wedges. Considering that the vein and listwanite wedge orientations are oblique, additional drilling could be done to try and determine the nature of the veins down dip.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in blue ink that reads "Heather Smith". The signature is written in a cursive, flowing style.

H. Smith, B.Sc. Geology, P.Geo.

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Heather Smith, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Squamish, British Columbia do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B. Sc in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 34689).
4. I have personally participated in and directed the fieldwork reported herein and have interpreted all data resulting from this work.



H. Smith, B.Sc. Geology, P.Geo.

APPENDIX II

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions			Project: <u>Finlayson</u>		Property: <u>Has-Vivi</u>	
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561956	UTM: 450756	E	UTM: 6759649	N	Sample Width:	Abundance:
	Elevation:	m				
Comments: epithermal silica float						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561957	UTM: 450694	E	UTM: 6759588	N	Sample Width:	Abundance:
	Elevation:	m				
Comments: rusty qtz boulder						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561958	UTM: 450646	E	UTM: 6759637	N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large rusty white qtz boulder						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561959	UTM: 450662	E	UTM: 6759540	N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large very angular qtz boulder; vuggy, rusty with fine py and secondary clear qtz stringers						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561961	UTM: 450672	E	UTM: 6759489	N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large white qtz boulder; rusty with grey qtz						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561962	UTM: 452383	E	UTM: 6756922	N	Sample Width:	Abundance:
	Elevation:	m				
Comments: rusty white qtz with pyrite and secondary clear qtz veinlets, proximal ?						

Rock Sample Descriptions			Project: <u>Finlayson</u>		Property: <u>Has-Vivi</u>	
Sample Number:	Grid East:	E	Grid North:	N	Type: subcrop grab	Dimension:
G0561963	UTM:	452751 E	UTM:	6757264 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large angular qtz carbonate						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561964	UTM:	452474 E	UTM:	6757291 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: rusty white qtz carbonate; angular						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561965	UTM:	452722 E	UTM:	6758751 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: rounded qtz w/galena and possible sphalerite						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561966	UTM:	451084 E	UTM:	6758695 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large rusty qtz boulder; vuggy and minor galena						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561968	UTM:	451067 E	UTM:	6758649 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large rusty qtz boulder; galena						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561969	UTM:	450986 E	UTM:	6758787 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: small qtz float; rusty						

Rock Sample Descriptions			Project: <u>Finlayson</u>	Property: <u>Has-Vivi</u>		
Sample Number:	Grid East:	E	Grid North:	N	Type: o/c grab	Dimension:
G0561970	UTM:	451008 E	UTM:	6758900 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 3 cm creamy white qtz veinlet; grey feldspar and anchorite stockworks						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561971	UTM:	451070 E	UTM:	6788859 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: small white qtz boulder; rusty w/occas vugs						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561972	UTM:	451845 E	UTM:	6759528 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: vuggy white qtz; rusty						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561973	UTM:	451385 E	UTM:	6759937 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: white qtz float; rusty, vuggy						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561974	UTM:	450902 E	UTM:	6760866 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular qtz float w/approx 3% py						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561975	UTM:	451234 E	UTM:	6759328 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: rusty white qtz float						

Rock Sample Descriptions			Project: <u>Finlayson</u>		Property: <u>Has-Vivi</u>	
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561976	UTM:	451408 E	UTM:	6759125 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: white qtz boulder; rusty vugs						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G0561977	UTM:	451697 E	UTM:	6759064 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large angular epithermal looking qtz boulder; vuggy; white and blue silica; near picket CC147221						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G285978	UTM:	451969 \	UTM:	6758827 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: white qtz float w/minor malachite and minor chalcopyrite						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G285979	UTM:	450471 E	UTM:	6758684 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large rusty qtz boulder w/galena						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G285980	UTM:	450443 E	UTM:	6758743 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: pieces of rusty qtz; angular						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G285981	UTM:	450718 E	UTM:	6758948 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large rusty white qtz boulder; minor py						

Rock Sample Descriptions			Project: <u>Finlayson</u>		Property: <u>Has-Vivi</u>	
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G285982	UTM:	450821 E	UTM:	6758989 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large white qtz boulder; rusty						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G285983	UTM:	452127 E	UTM:	6757708 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: possible silicified sed; rusty and laminated						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G285985	UTM:	451183 E	UTM:	6758533 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: rusty qtz float w/py boxworks						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
G285986	UTM:	451205 E	UTM:	6758644 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: small rusty qtz pieces						
Sample Number:	Grid East:	E	Grid North:	N	Type: selected	Dimension:
I357300	UTM:	452799 E	UTM:	6757285 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: resample of K974564; brecciated and silicified epithermal vein with fine pyrite in talc-carbonate						
Sample Number:	Grid East:	E	Grid North:	N	Type: grab	Dimension:
K975201	UTM:	452883 E	UTM:	6757411 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: abundant limonitic float with patchy silicification and veining; local fine pyrite, host rock: talc-carbonate						

Rock Sample Descriptions			Project: <u>Finlayson</u>	Property: <u>Has-Vivi</u>		
Sample Number:	Grid East:	E	Grid North:	N	Type: character	Dimension:
K975212	UTM:	450935 E	UTM:	6759105 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: irregular network of carbonate veining and replacement hosted by talc-carbonate unit						
Sample Number:	Grid East:	E	Grid North:	N	Type: check sample	Dimension:
K975213	UTM:	450605 E	UTM:	6759880 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: check sample of K974514; bull quartz, faint banding, no sulphide						
Sample Number:	Grid East:	E	Grid North:	N	Type: "blind" check	Dimension:
K975214	UTM:	450605 E	UTM:	6759880 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: check sample of K974516; bull quartz, small seams/patches of galena;						
Sample Number:	Grid East:	E	Grid North:	N	Type: grab	Dimension:
K975215	UTM:	451572 E	UTM:	6759147 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: block of talc-carbonate unit with finely disseminated soft black mineral						
Sample Number:	Grid East:	E	Grid North:	N	Type: o/c grab	Dimension:
K974510	UTM:	452809 E	UTM:	6757264 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: similar rock to last two						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974511	UTM:	453011 E	UTM:	6756918 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular, proximal; blu white qtz carb silica						

Rock Sample Descriptions			Project: <u>Finlayson</u>	Property: <u>Has-Vivi</u>		
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974512	UTM:	453064 E	UTM:	6756948 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular qtz float; white w/rusty patches; some metamorph rock attached						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974513	UTM:	450609 E	UTM:	6759545 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: white qtz boulder train; sample has occas limonite in vugs; rusty patches						
Sample Number:	Grid East:	E	Grid North:	N	Type: subcrop grab	Dimension:
K974514	UTM:	450600 E	UTM:	6759588 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large white boulders w/orange limonite in vugs and some fractures						
Sample Number:	Grid East:	E	Grid North:	N	Type: o/c grab	Dimension:
K974515	UTM:	450591 E	UTM:	6759594 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 meter by 2 meter poorly exposed white qtz vein outcrop; possible shallow dip NE, trend north? Small >1cm tourmaline crystals						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974516	UTM:	450605 E	UTM:	6759880 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large white qtz boulder w/clots galena and limonite						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974545	UTM:	451932 E	UTM:	6758865 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: sub angular white quartz with galena, just up from camp						

Rock Sample Descriptions			Project: <u>Finlayson</u>	Property: <u>Has-Vivi</u>		
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974546	UTM:	451544 E	UTM:	6759190 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular; quartz w/grey metallic mineral (galena)						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974547	UTM:	451447 E	UTM:	6759173 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular boulder epithermal looking silica; green chloritic altered host						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974548	UTM:	451161 E	UTM:	6759816 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: small epithermal looking silica in bull quartz boulders; small tourmaline crystals in bull qtz						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974550	UTM:	452030 E	UTM:	6759537 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular; similar to K974547; proximal						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974551	UTM:	451266 E	UTM:	6758863 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: many boulders of white qtz; rusty, some w/open spaces and limonite						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974552	UTM:	451076 E	UTM:	6758659 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular white qtz w/occas galena						

Rock Sample Descriptions			Project: <u>Finlayson</u>	Property: <u>Has-Vivi</u>		
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974553	UTM:	451074 E	UTM:	6758643 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular white qtz w/high grade galena; close to G0561968						
Sample Number:	Grid East:	E	Grid North:	N	Type: o/c grab	Dimension:
K974554	UTM:	451662 E	UTM:	6758359 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: white qtz veins >1cm to 10 cm; trend NW; blue green host ??						
Sample Number:	Grid East:	E	Grid North:	N	Type: o/c grab	Dimension:
K974555	UTM:	451829 E	UTM:	6758262 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: same as last; qtz has orange tinge						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974557	UTM:	450798 E	6759045	N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular white qtz w/limonite; vugs; not sulphides						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974558	UTM:	450771 E	UTM:	6758960 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular white qtz; limonite and vugs						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974559	UTM:	450409 E	UTM:	6758879 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large angular white qtz boulders in 'talus' at creek side; trace galena						

Rock Sample Descriptions			Project: <u>Finlayson</u>	Property: <u>Has-Vivi</u>		
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974560	UTM:	450521 E	UTM:	6759467 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: large white qtz boulders; limonite						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974561	UTM:	450581 E	UTM:	6759525 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: many large and small white qtz boulders; rusty w/limonite						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974562	UTM:	451490 E	UTM:	6759179 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: angular epithermal silica from small stream						
Sample Number:	Grid East:	E	Grid North:	N	Type: float grab	Dimension:
K974563	UTM:	452582 E	UTM:	6758844 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: rounded qtz boulders w/occas py (cpy?); one w/ultramafic host attached						
Sample Number:	Grid East:	E	Grid North:	N	Type: subcrop grab	Dimension:
K974564	UTM:	452799 E	UTM:	6757285 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: qtz carb subcrop; orange weathering w/stk works crusy epithermal looking white, blue silica; py						
Sample Number:	Grid East:	E	Grid North:	N	Type: subcrop grab	Dimension:
K974565	UTM:	452763 E	UTM:	6757280 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: qtz stk work in qtz carb; orange weathering						

APPENDIX III
CERTIFICATES OF ANALYSIS



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 26- AUG- 2011
Account: F

CERTIFICATE WH11138807

Project: Andy/Has/Gam

P.O. No.: Batch 2

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 20-JUL- 2011.

The following have access to data associated with this certificate:

DOUG EATON

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS41	51 anal. aqua regia ICPMS
Au- AA24	Au 50g FA AA finish AAS

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 2 - A
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 26- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138807

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
G285987		0.86	<0.005	0.08	0.17	2.5	<0.2	<10	1600	0.07	0.02	3.19	1.28	4.79	1.0	8
G285988		0.90	<0.005	0.63	0.15	5.8	<0.2	<10	150	0.05	1.10	0.19	0.26	4.04	3.3	12
G285989		1.24	<0.005	0.03	0.09	<2	<0.2	<10	10	<0.05	0.01	18.65	0.03	0.48	20.9	14
G285990		1.06	<0.005	0.02	0.12	<2	<0.2	<10	30	<0.05	0.01	22.3	0.07	0.47	27.3	8
G285991		1.16	<0.005	0.01	0.04	<2	<0.2	<10	<10	<0.05	0.01	19.30	0.05	0.28	22.2	1
G285992		1.46	0.007	0.02	2.05	0.4	<0.2	<10	20	<0.05	0.02	2.34	0.04	0.40	35.1	181
G285993		1.06	<0.005	0.18	2.96	1.9	<0.2	<10	100	0.07	0.01	0.89	0.16	0.86	25.7	28
G285994		0.90	<0.005	0.05	0.04	21.2	<0.2	<10	10	<0.05	0.01	1.75	0.01	0.68	2.2	13
G285995		1.30	0.008	0.03	0.05	25.0	<0.2	<10	50	0.59	<0.01	1.46	0.01	0.06	52.1	363
G285996		1.22	0.143	0.07	0.15	246	<0.2	<10	20	0.05	0.05	0.37	0.02	0.18	28.5	132
G285997		0.94	<0.005	0.05	0.13	6.0	<0.2	<10	110	0.09	0.12	0.07	0.17	10.05	1.4	24
G285998		0.86	<0.005	0.32	0.14	91.9	<0.2	<10	10	<0.05	0.04	0.27	0.03	0.12	41.9	526
G285999		0.96	<0.005	0.12	0.05	3.8	<0.2	<10	20	<0.05	0.16	0.02	0.01	0.78	0.8	19
G286000		0.96	0.005	0.03	0.09	20.0	<0.2	10	40	0.29	<0.01	0.27	0.01	0.09	63.3	525
G0561951		1.20	<0.005	0.13	0.14	23.6	<0.2	20	60	0.16	0.01	1.69	0.03	0.08	61.1	743
G0561952		0.76	<0.005	0.11	0.15	5.7	<0.2	<10	100	0.14	0.15	0.07	0.44	34.3	1.0	24
G0561953		0.94	<0.005	0.06	0.01	1.0	<0.2	<10	90	<0.05	0.08	0.06	0.04	1.07	1.0	20
G0561954		1.02	0.007	0.09	0.03	386	<0.2	<10	100	0.39	<0.01	0.16	0.01	0.07	51.2	394
G0561955		0.94	0.044	0.02	0.05	10.5	<0.2	<10	20	0.12	<0.01	0.09	0.01	0.13	41.0	410
G0561956		1.00	0.225	0.31	0.02	111.5	0.2	<10	20	<0.05	0.02	<0.01	0.02	1.13	0.4	14
G0561957		0.88	<0.005	0.02	0.20	3.7	<0.2	<10	10	<0.05	<0.01	0.01	0.02	12.75	0.8	12
G0561958		1.04	<0.005	<0.01	0.01	0.6	<0.2	<10	<10	<0.05	<0.01	<0.01	<0.01	0.15	0.4	21
G0561959		1.38	0.027	0.72	0.13	23.3	<0.2	<10	150	<0.05	0.08	0.01	<0.01	18.60	0.2	13
G0561960		1.36	<0.005	0.01	0.02	<2	<0.2	<10	10	<0.05	0.11	19.80	0.05	1.20	1.2	1
G0561961		0.90	<0.005	<0.01	0.01	0.6	<0.2	<10	<10	<0.05	<0.01	0.10	<0.01	0.18	0.4	12
G0561962		0.92	<0.005	0.08	0.14	8.1	<0.2	<10	10	0.06	0.03	0.05	0.03	19.35	1.9	10
G0561963		0.82	<0.005	0.02	0.11	29.1	<0.2	<10	30	0.13	<0.01	0.29	0.06	0.15	36.0	334
G0561964		0.80	<0.005	0.01	0.05	108.0	<0.2	<10	10	0.14	0.03	0.23	0.04	0.13	40.8	152
G0561965		0.96	0.052	14.40	0.02	1.2	<0.2	<10	<10	<0.05	65.7	0.02	1.56	0.58	0.6	16
G0561966		1.38	<0.005	0.09	0.04	1.5	<0.2	<10	20	0.17	0.20	0.21	0.03	1.14	0.7	16
G0561967		0.30	0.422	2.11	1.03	107.5	0.3	<10	40	0.43	0.56	0.48	1.08	22.1	18.1	29
G0561968		1.16	<0.005	6.80	0.01	2.4	<0.2	<10	<10	<0.05	10.85	0.01	4.31	0.22	0.9	21
G0561969		0.62	<0.005	0.13	<0.01	0.4	<0.2	<10	<10	0.07	0.56	<0.01	0.03	0.75	0.3	14
G0561970		0.52	<0.005	0.02	0.06	<2	<0.2	<10	<10	0.05	0.03	12.00	0.30	0.16	19.8	107
G0561971		0.90	<0.005	0.04	0.01	2.0	<0.2	<10	<10	<0.05	0.08	0.05	0.02	0.21	0.5	21
G0561972		0.56	<0.005	0.05	0.04	0.6	<0.2	<10	40	<0.05	0.38	0.01	<0.01	3.05	0.3	20



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 26- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138807

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
G285987		0.10	4.1	1.50	0.33	0.11	0.06	0.06	0.027	0.01	1.6	2.9	1.50	4280	0.24
G285988		0.18	26.6	0.80	0.42	0.08	0.12	0.02	0.013	0.01	1.9	2.2	0.13	869	0.44
G285989		0.31	0.8	2.99	0.24	0.08	<0.02	0.68	0.007	0.01	0.2	3.3	10.80	1060	0.06
G285990		0.12	6.6	5.41	0.28	0.08	<0.02	0.02	0.008	<0.01	0.2	3.5	11.80	1630	0.20
G285991		0.06	0.7	4.48	0.11	0.07	<0.02	0.01	0.008	<0.01	<0.2	1.2	10.40	1290	0.07
G285992		0.18	518	4.79	6.22	0.10	<0.02	0.06	0.018	<0.01	0.2	2.9	2.25	477	7.94
G285993		0.93	613	4.23	6.10	0.20	0.09	0.02	0.031	0.01	0.3	14.9	2.43	603	0.41
G285994		<0.05	11.7	0.62	0.10	0.07	<0.02	0.01	0.008	<0.01	0.3	1.3	0.88	202	0.11
G285995		0.90	8.4	3.14	0.35	0.09	<0.02	0.10	0.007	0.01	<0.2	5.0	17.75	717	0.17
G285996		1.19	18.5	2.04	0.39	0.07	<0.02	0.01	0.009	0.03	<0.2	2.6	10.75	185	0.08
G285997		0.16	2.2	0.72	0.44	0.08	0.09	<0.01	0.008	0.04	3.6	3.0	0.08	102	0.38
G285998		0.07	15.8	2.97	0.44	0.10	<0.02	0.11	0.009	0.01	<0.2	5.1	13.60	224	0.07
G285999		<0.05	6.9	0.44	0.19	0.07	0.03	<0.01	0.007	<0.01	0.3	0.7	0.07	166	0.48
G286000		5.21	6.1	3.24	0.36	0.09	<0.02	0.27	0.010	0.01	<0.2	11.0	19.20	292	0.08
G0561951		0.98	11.5	2.49	0.43	0.08	<0.02	0.31	0.008	<0.01	<0.2	9.5	19.55	2110	0.05
G0561952		0.29	1.8	0.56	0.57	0.10	0.06	0.01	0.011	0.13	17.1	2.0	0.09	118	0.40
G0561953		0.05	1.2	0.53	0.10	0.07	<0.02	0.01	0.007	<0.01	0.4	0.3	0.10	249	0.26
G0561954		1.80	2.8	3.46	0.29	0.09	<0.02	0.20	<0.005	0.02	<0.2	4.2	15.15	600	0.11
G0561955		2.37	3.4	3.37	0.39	0.09	<0.02	0.03	<0.005	0.02	<0.2	4.9	12.20	537	0.18
G0561956		0.08	0.8	0.30	0.13	<0.05	<0.02	<0.01	<0.005	0.01	0.8	0.9	0.04	28	0.15
G0561957		0.08	18.2	0.61	0.49	<0.05	<0.02	<0.01	0.005	0.02	5.6	0.5	0.06	47	0.46
G0561958		0.06	0.8	0.14	0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.2	0.05	16	0.09
G0561959		<0.05	1.9	1.03	0.57	0.05	0.02	0.03	0.008	0.08	7.9	0.3	<0.01	31	11.45
G0561960		0.11	4.6	0.38	0.09	<0.05	<0.02	<0.01	<0.005	0.01	0.6	1.4	12.00	182	0.08
G0561961		<0.05	1.5	0.47	0.14	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.3	0.05	53	0.22
G0561962		<0.05	5.4	0.75	0.60	<0.05	0.05	0.01	<0.005	0.01	10.6	0.8	0.06	66	0.41
G0561963		0.27	1.3	2.81	0.39	0.08	<0.02	0.06	<0.005	<0.01	<0.2	1.2	9.48	976	0.08
G0561964		0.09	3.2	2.57	0.23	0.07	<0.02	0.02	<0.005	<0.01	<0.2	1.1	6.94	487	0.13
G0561965		0.25	5.5	0.48	0.14	<0.05	<0.02	<0.01	<0.005	0.01	0.2	0.5	0.02	55	0.24
G0561966		0.10	5.1	0.32	0.15	<0.05	<0.02	0.01	<0.005	0.02	0.4	0.3	0.04	40	0.11
G0561967		3.33	4590	4.55	3.95	0.14	0.09	0.13	0.053	0.57	11.0	5.1	0.62	502	267
G0561968		<0.05	12.8	0.66	0.14	<0.05	<0.02	0.34	0.034	0.01	<0.2	0.3	0.03	71	0.41
G0561969		<0.05	1.2	0.27	0.07	<0.05	<0.02	<0.01	<0.005	<0.01	0.2	0.1	0.01	35	0.17
G0561970		<0.05	0.8	1.13	0.21	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	1.6	12.70	1860	<0.05
G0561971		<0.05	2.1	0.35	0.10	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.2	0.05	52	0.13
G0561972		0.05	1.6	0.56	0.32	<0.05	0.02	<0.01	<0.005	0.02	1.8	0.3	0.01	52	0.38



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Page: 2 - C
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 26- AUG- 2011
Account: F

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CERTIFICATE OF ANALYSIS WH11138807

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
G285987		0.05	4.1	860	4.0	0.5	<0.001	<0.01	0.35	3.2	0.7	<0.2	1075	<0.01	0.05	0.3
G285988		<0.05	14.4	180	51.1	0.6	<0.001	<0.01	2.09	1.1	0.4	<0.2	20.4	<0.01	0.15	0.6
G285989		<0.05	47.1	10	0.4	0.3	<0.001	<0.01	<0.05	3.5	0.8	<0.2	488	<0.01	<0.01	<0.2
G285990		<0.05	35.7	70	1.6	0.2	<0.001	<0.01	0.10	2.0	0.5	<0.2	725	<0.01	0.01	<0.2
G285991		<0.05	29.9	<10	1.3	0.1	<0.001	<0.01	<0.05	1.5	0.3	<0.2	630	<0.01	<0.01	<0.2
G285992		<0.05	44.5	20	<0.2	0.1	0.006	0.02	0.18	8.6	1.6	<0.2	36.8	<0.01	0.02	<0.2
G285993		<0.05	38.4	140	0.3	0.5	<0.001	0.04	0.09	5.3	1.8	0.2	30.9	<0.01	0.02	<0.2
G285994		<0.05	10.9	60	0.3	0.2	<0.001	<0.01	3.09	0.9	<0.2	<0.2	47.6	<0.01	<0.01	<0.2
G285995		<0.05	1250	<10	0.6	1.2	<0.001	<0.01	7.49	3.3	<0.2	<0.2	148.5	<0.01	<0.01	<0.2
G285996		<0.05	536	10	7.8	1.8	<0.001	<0.01	5.63	2.4	0.3	<0.2	35.1	<0.01	0.02	<0.2
G285997		0.11	19.1	70	9.6	1.8	<0.001	0.03	1.15	0.4	0.2	<0.2	3.5	<0.01	<0.01	1.6
G285998		<0.05	669	<10	5.8	0.4	<0.001	<0.01	4.53	3.7	0.2	<0.2	40.3	<0.01	0.04	<0.2
G285999		0.05	9.1	60	11.8	0.3	<0.001	<0.01	0.30	0.3	<0.2	<0.2	2.7	<0.01	0.02	0.2
G286000		<0.05	1365	10	0.3	2.5	<0.001	0.02	10.25	6.0	0.2	<0.2	22.2	<0.01	<0.01	<0.2
G0561951		<0.05	1115	<10	0.3	0.4	<0.001	0.07	22.6	4.4	<0.2	<0.2	111.0	<0.01	0.03	<0.2
G0561952		0.20	9.3	280	19.0	4.7	<0.001	<0.01	0.87	0.4	<0.2	<0.2	6.4	<0.01	0.01	5.1
G0561953		<0.05	14.5	10	6.1	0.1	<0.001	<0.01	0.33	0.3	<0.2	<0.2	5.2	<0.01	<0.01	<0.2
G0561954		<0.05	971	10	1.2	2.3	<0.001	0.05	112.5	6.4	<0.2	<0.2	7.5	<0.01	0.01	<0.2
G0561955		<0.05	817	10	0.6	2.5	<0.001	0.01	6.54	4.9	<0.2	<0.2	5.4	<0.01	0.01	<0.2
G0561956		0.05	4.9	10	1.3	0.9	<0.001	0.01	3.01	0.2	0.3	<0.2	2.0	<0.01	0.02	0.2
G0561957		0.07	8.5	30	3.0	0.6	<0.001	<0.01	0.57	0.8	0.2	<0.2	0.5	<0.01	<0.01	0.6
G0561958		<0.05	6.7	10	0.4	0.3	<0.001	<0.01	0.09	0.1	<0.2	<0.2	0.2	<0.01	<0.01	<0.2
G0561959		0.09	1.1	20	63.4	0.8	0.006	0.35	0.14	0.4	1.1	<0.2	2.4	<0.01	0.06	0.9
G0561960		0.07	<0.2	210	1.1	0.6	<0.001	0.02	<0.05	0.3	0.2	<0.2	47.0	<0.01	0.01	<0.2
G0561961		0.06	2.4	60	0.3	0.3	<0.001	<0.01	0.05	0.1	<0.2	<0.2	0.4	<0.01	<0.01	<0.2
G0561962		0.08	5.0	180	10.9	0.5	<0.001	0.02	0.10	1.0	0.2	<0.2	1.8	<0.01	0.01	14.7
G0561963		<0.05	632	30	0.3	0.6	<0.001	0.01	0.30	4.3	<0.2	<0.2	16.5	<0.01	0.01	<0.2
G0561964		<0.05	685	10	0.2	0.2	<0.001	0.14	0.35	3.1	0.3	<0.2	10.2	<0.01	0.03	<0.2
G0561965		0.06	5.7	80	1845	1.6	<0.001	0.03	0.09	0.2	7.5	0.6	0.6	<0.01	24.5	0.2
G0561966		<0.05	6.6	960	7.3	1.3	<0.001	<0.01	0.16	0.5	<0.2	<0.2	9.7	<0.01	0.06	<0.2
G0561967		0.22	22.8	1060	36.8	34.2	0.646	2.59	6.16	7.5	8.7	2.0	35.2	<0.01	1.09	1.8
G0561968		0.07	7.0	10	3820	0.3	<0.001	0.03	0.89	0.2	2.6	0.6	0.4	<0.01	0.93	<0.2
G0561969		0.05	2.3	10	21.6	0.1	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	<0.2	<0.01	0.20	<0.2
G0561970		<0.05	127.0	10	10.7	0.1	<0.001	0.01	<0.05	3.3	0.2	<0.2	248	<0.01	0.01	<0.2
G0561971		<0.05	3.2	10	20.3	0.3	<0.001	<0.01	<0.05	0.2	<0.2	<0.2	0.8	<0.01	0.01	<0.2
G0561972		0.08	2.1	20	3.6	1.1	<0.001	0.01	0.09	0.3	0.3	0.4	1.1	<0.01	0.12	0.2



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 26- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138807

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
G285987		<0.005	<0.02	0.12	1	0.06	10.05	87	1.8
G285988		<0.005	0.04	0.22	1	0.07	1.03	36	4.6
G285989		<0.005	<0.02	<0.05	203	0.13	2.44	17	<0.5
G285990		<0.005	<0.02	<0.05	48	0.05	3.16	80	<0.5
G285991		<0.005	<0.02	<0.05	32	<0.05	2.36	75	<0.5
G285992		<0.005	0.02	<0.05	88	<0.05	1.31	16	<0.5
G285993		0.172	<0.02	0.10	89	0.06	3.25	25	2.3
G285994		<0.005	<0.02	<0.05	4	<0.05	0.46	8	0.6
G285995		<0.005	0.06	0.05	8	1.17	0.14	6	<0.5
G285996		0.005	<0.02	<0.05	7	0.13	0.44	16	<0.5
G285997		<0.005	0.02	0.46	<1	0.05	2.17	56	3.4
G285998		<0.005	<0.02	<0.05	8	0.08	0.18	9	<0.5
G285999		<0.005	<0.02	<0.05	1	<0.05	0.38	3	0.7
G286000		<0.005	0.03	<0.05	16	1.41	0.41	17	<0.5
G0561951		<0.005	0.06	<0.05	12	0.68	0.20	8	<0.5
G0561952		<0.005	0.03	0.25	1	0.06	2.06	66	2.4
G0561953		<0.005	<0.02	0.15	<1	0.08	0.80	5	0.8
G0561954		<0.005	0.24	<0.05	9	1.41	0.12	9	<0.5
G0561955		<0.005	0.02	<0.05	8	0.13	0.09	6	<0.5
G0561956		<0.005	<0.02	<0.05	1	0.20	0.09	2	<0.5
G0561957		<0.005	<0.02	0.05	1	0.05	2.40	25	<0.5
G0561958		<0.005	<0.02	<0.05	<1	<0.05	<0.05	2	<0.5
G0561959		<0.005	0.02	<0.05	1	0.06	2.99	6	0.8
G0561960		<0.005	<0.02	0.53	1	<0.05	0.81	16	<0.5
G0561961		<0.005	<0.02	<0.05	1	0.06	0.15	3	<0.5
G0561962		<0.005	<0.02	2.17	3	0.94	3.29	6	1.0
G0561963		<0.005	0.06	<0.05	5	0.08	0.13	29	<0.5
G0561964		<0.005	<0.02	<0.05	2	0.08	0.13	11	<0.5
G0561965		<0.005	0.06	<0.05	1	0.12	0.44	3	<0.5
G0561966		<0.005	0.06	0.05	2	0.27	2.57	5	<0.5
G0561967		0.059	0.45	0.61	83	1.27	11.00	146	2.3
G0561968		<0.005	<0.02	<0.05	1	0.52	0.05	363	<0.5
G0561969		<0.005	<0.02	<0.05	<1	0.17	0.18	7	<0.5
G0561970		<0.005	<0.02	<0.05	3	0.11	0.28	8	<0.5
G0561971		<0.005	<0.02	<0.05	1	0.11	0.11	4	<0.5
G0561972		<0.005	<0.02	<0.05	2	0.11	0.32	3	0.8



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 26- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138807

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1
Finalized Date: 25- AUG- 2011
Account: F

CERTIFICATE WH11138808

Project: Andy/Has/Gam

P.O. No.: Batch 3

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 20-JUL- 2011.

The following have access to data associated with this certificate:

DOUG EATON

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME- MS41	51 anal. aqua regia ICPMS	
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au- AA24	Au 50g FA AA finish	AAS

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
1016- 510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 25- AUG- 2011
Account: F

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CERTIFICATE OF ANALYSIS WH11138808

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
G0561973		1.12	<0.005	1.56	0.24	1.5	<0.2	<10	<10	<0.05	4.96	0.02	0.01	3.13	0.8	17
G0561974		0.68	<0.005	0.10	0.19	1.4	<0.2	<10	20	0.07	0.08	0.01	0.03	30.3	1.0	10
G0561975		0.72	<0.005	0.04	0.05	2.3	<0.2	<10	10	0.35	0.04	0.01	0.02	1.74	1.3	18
G0561976		0.78	0.007	0.61	<0.01	0.4	<0.2	<10	<10	<0.05	2.14	<0.01	6.98	0.14	0.2	19
G0561977		0.82	<0.005	0.03	0.19	97.0	<0.2	<10	130	0.14	0.03	9.34	0.09	17.90	16.1	61
G0561978		0.96	<0.005	0.03	0.19	94.4	<0.2	<10	150	0.13	0.03	9.83	0.08	18.45	15.3	65
G0561979		1.00	<0.005	0.07	0.09	6.1	<0.2	<10	30	<0.05	0.10	0.39	0.04	0.94	1.5	16
G0561980		1.20	<0.005	0.02	0.12	2.4	<0.2	<10	80	0.07	0.02	0.50	0.08	20.6	0.6	16
G0561981		0.96	<0.005	0.08	0.15	4.6	<0.2	<10	120	0.12	0.09	9.41	0.61	30.1	3.0	4
G0561982		1.34	<0.005	0.02	0.19	46.6	<0.2	<10	180	0.12	0.01	5.40	0.10	2.03	9.0	29
G0561983		1.02	<0.005	1.72	0.01	106.5	<0.2	<10	10	<0.05	0.85	0.08	0.15	0.15	2.8	40
G0561984		1.06	<0.005	0.20	0.11	41.3	<0.2	<10	40	0.06	0.02	0.53	0.08	4.30	3.2	16
G0561985		1.02	<0.005	0.01	0.03	<2	<0.2	<10	10	0.05	0.02	19.90	0.05	1.11	1.1	1
G0561986		1.26	0.015	0.03	0.01	143.0	<0.2	<10	20	<0.05	0.05	0.45	0.03	0.32	18.4	50
G0561987		1.24	0.014	0.09	0.03	161.5	<0.2	<10	20	0.12	0.17	0.17	0.03	0.32	48.9	151
G0561988		1.04	<0.005	0.01	0.22	<2	<0.2	<10	10	0.09	<0.01	13.70	0.06	0.51	13.0	9
G0561989		1.36	<0.005	0.01	1.16	<2	<0.2	<10	70	0.23	<0.01	13.45	0.01	1.99	21.0	54
G0561990		0.98	<0.005	20.5	3.98	0.5	<0.2	<10	10	107.5	50.2	7.59	23.8	48.0	5.4	24
G0561991		0.66	<0.005	0.11	0.42	0.2	<0.2	<10	20	0.49	1.30	0.14	0.10	14.85	4.5	5
G0561992		0.34	<0.005	1.04	1.35	0.9	<0.2	<10	10	0.98	15.80	1.69	13.35	10.35	4.2	12
G0561993		1.10	0.005	80.5	0.27	1.5	<0.2	<10	10	2.94	216	5.85	254	6.08	40.0	1
G0561994		0.30	0.447	2.13	0.98	107.0	0.4	<10	40	0.42	0.87	0.49	1.06	23.5	16.4	28
G0561995		1.20	<0.005	0.33	1.12	0.9	<0.2	<10	30	1.15	25.2	3.35	4.67	16.35	8.0	8
G0561996		0.56	<0.005	50.4	1.05	0.7	<0.2	<10	<10	4.34	122.0	4.10	65.8	15.80	16.1	11
G0561997		0.84	<0.005	0.38	1.31	3.0	<0.2	<10	<10	13.55	39.5	8.41	9.97	8.60	16.5	4
G0561998		0.98	0.061	1.25	1.55	<0.1	<0.2	<10	<10	2.71	882	8.02	15.80	11.60	3.8	2
G0561999		0.46	<0.005	56.9	2.54	1.7	<0.2	<10	<10	3.05	142.5	1.55	70.8	66.2	21.1	30
G0562000		0.60	<0.005	0.24	0.65	1.9	<0.2	<10	<10	0.44	1.92	0.64	0.46	22.5	5.9	14
K974501		0.92	0.006	86.4	0.96	1.5	<0.2	<10	<10	64.1	199.0	0.72	276	2.43	16.3	2
K974502		0.98	0.005	37.3	0.57	4.1	<0.2	<10	<10	11.20	107.5	0.10	614	10.45	59.9	<1
K974503		1.02	<0.005	0.17	0.18	0.3	<0.2	<10	20	0.83	0.76	0.01	2.16	2.68	0.6	12
K974504		1.04	<0.005	0.33	0.20	1.6	<0.2	<10	40	0.43	1.87	0.01	0.42	5.03	0.8	9
K974505		0.90	0.021	0.54	0.19	12.2	<0.2	<10	40	0.18	0.36	<0.01	0.22	8.32	0.5	7
K974506		0.86	<0.005	0.12	0.16	0.4	<0.2	<10	30	0.14	1.28	0.01	0.43	3.79	0.4	10
K974507		0.88	<0.005	0.10	0.21	0.2	<0.2	<10	60	0.19	0.48	<0.01	0.09	12.20	0.3	7
K974508		0.94	<0.005	0.11	0.21	0.3	<0.2	<10	30	0.18	0.41	<0.01	0.05	22.9	0.3	11



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Page: 2 - B
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
G0561973		0.06	8.3	0.78	0.90	<0.05	<0.02	<0.01	<0.005	<0.01	1.3	1.7	0.17	76	0.34
G0561974		0.32	14.6	1.66	0.98	0.06	0.06	<0.01	0.029	0.04	12.6	0.5	0.01	97	0.40
G0561975		0.14	15.2	0.64	0.18	<0.05	<0.02	0.01	<0.005	0.03	0.8	0.5	0.01	65	0.21
G0561976		<0.05	2.1	0.29	0.06	<0.05	<0.02	0.01	0.038	<0.01	<0.2	0.2	<0.01	27	0.12
G0561977		0.27	8.9	3.95	0.80	0.08	0.04	<0.01	0.043	0.05	7.8	4.9	3.66	804	0.14
G0561978		0.28	9.8	4.10	0.83	0.10	0.03	0.01	0.044	0.06	8.1	4.8	3.80	843	0.15
G0561979		0.09	5.8	0.66	0.23	<0.05	0.03	<0.01	<0.005	<0.01	0.4	1.4	0.22	472	0.35
G0561980		0.19	1.3	0.39	0.37	<0.05	0.05	<0.01	<0.005	0.07	10.5	2.4	0.21	248	0.10
G0561981		0.37	7.8	1.55	0.61	0.05	0.22	<0.01	0.039	0.10	14.7	2.0	0.09	2580	0.15
G0561982		0.61	1.7	3.09	0.42	0.05	<0.02	<0.01	0.049	0.08	0.7	2.6	2.29	1190	0.12
G0561983		0.15	72.8	0.49	0.12	<0.05	<0.02	0.12	<0.005	0.01	<0.2	0.8	0.12	139	0.10
G0561984		0.09	248	1.07	0.39	<0.05	0.06	0.01	0.019	0.01	1.9	1.3	0.32	286	0.31
G0561985		0.23	2.8	0.42	0.12	<0.05	<0.02	<0.01	<0.005	0.02	0.5	1.4	12.00	191	<0.05
G0561986		0.17	5.0	1.17	0.13	<0.05	<0.02	0.01	0.005	0.01	<0.2	0.6	1.33	233	0.12
G0561987		1.33	4.5	3.11	0.20	0.09	<0.02	0.01	<0.005	0.02	0.2	2.0	11.00	305	0.17
G0561988		0.58	13.4	3.37	0.47	0.06	<0.02	0.05	0.007	0.01	<0.2	10.7	7.09	1080	<0.05
G0561989		5.60	37.6	3.54	2.42	0.08	0.02	<0.01	0.017	0.08	0.7	20.1	6.49	492	0.12
G0561990		0.73	273	8.49	25.9	2.10	0.39	1.60	1.030	0.07	25.8	56.0	1.21	11500	0.28
G0561991		0.78	13.3	2.28	3.91	0.06	0.08	0.01	0.010	0.20	7.2	5.2	0.10	125	1.84
G0561992		1.36	254	1.20	4.47	0.05	0.08	0.02	1.000	0.09	5.1	3.4	0.08	651	0.26
G0561993		30.8	68.1	4.46	2.10	0.30	0.03	0.12	3.74	0.12	3.0	1.0	0.19	17650	0.13
G0561994		3.18	4500	4.41	3.90	0.16	0.09	0.10	0.053	0.56	12.0	4.1	0.62	492	246
G0561995		0.64	66.0	3.09	4.74	0.63	0.08	0.04	0.238	0.01	8.5	5.6	0.06	1040	0.18
G0561996		28.6	168.5	3.04	4.26	0.42	0.11	0.34	0.172	0.07	7.6	9.6	0.35	10500	0.24
G0561997		0.16	90.5	6.16	4.47	0.90	0.07	0.09	0.525	<0.01	4.5	15.4	0.18	1540	0.13
G0561998		0.21	82.6	3.69	9.45	1.67	0.15	1.95	0.747	0.01	5.5	11.9	0.15	2920	1.98
G0561999		1.43	254	5.12	12.55	0.45	0.17	0.02	1.900	0.02	35.1	60.5	0.62	3180	0.19
G0562000		0.89	6.8	1.16	3.10	0.12	0.07	<0.01	0.223	0.01	11.3	4.3	0.09	254	5.85
K974501		5.92	448	9.19	9.14	0.50	0.05	0.13	3.37	0.02	1.2	5.6	0.29	9960	0.09
K974502		0.62	1795	31.2	3.50	0.51	0.07	0.07	9.35	0.04	5.0	11.2	0.13	3690	0.60
K974503		0.19	6.0	2.46	0.78	0.06	0.12	0.01	0.026	0.19	1.4	1.2	0.01	42	36.7
K974504		0.63	5.3	2.71	1.28	0.05	0.05	0.01	0.012	0.18	2.8	0.9	0.01	54	103.5
K974505		1.04	1.8	2.87	1.58	0.06	0.06	0.03	<0.005	0.20	4.1	1.0	0.01	22	239
K974506		0.24	3.1	3.25	0.77	0.06	0.05	<0.01	0.007	0.13	2.0	0.9	0.01	30	172.0
K974507		0.34	1.3	2.34	1.18	0.05	0.08	<0.01	<0.005	0.32	6.5	1.5	0.01	27	60.5
K974508		0.20	1.9	1.97	1.26	0.06	0.11	<0.01	<0.005	0.19	11.8	1.2	0.01	23	24.2



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Page: 2 - C
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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
G0561973		0.19	3.2	110	15.3	0.3	<0.001	<0.01	0.14	2.5	0.3	<0.2	0.7	<0.01	0.90
G0561974		0.21	18.4	80	2.6	2.0	<0.001	0.05	0.06	1.6	0.3	0.2	1.1	<0.01	0.02
G0561975		0.08	6.2	60	2.0	2.2	<0.001	0.01	0.23	0.5	<0.2	0.6	1.0	<0.01	0.02
G0561976		<0.05	1.0	<10	78.0	0.1	<0.001	0.01	<0.05	0.1	<0.2	<0.2	<0.2	<0.01	0.16
G0561977		0.06	96.1	490	9.3	2.1	<0.001	0.01	4.73	10.1	0.5	<0.2	698	0.01	0.02
G0561978		0.08	92.7	520	9.6	2.3	<0.001	0.01	4.77	10.7	0.6	<0.2	732	0.01	0.02
G0561979		<0.05	13.4	50	14.1	0.2	<0.001	0.08	1.95	1.2	0.2	<0.2	15.6	<0.01	0.03
G0561980		0.11	5.2	100	4.9	2.5	<0.001	<0.01	0.22	0.6	<0.2	<0.2	16.3	<0.01	0.01
G0561981		2.57	4.0	630	16.6	3.8	<0.001	0.09	0.50	5.8	0.8	<0.2	1015	0.01	0.02
G0561982		0.07	56.2	10	1.4	4.1	<0.001	0.01	2.35	11.6	0.3	<0.2	491	<0.01	0.02
G0561983		<0.05	82.3	10	144.5	0.4	<0.001	0.01	35.6	0.5	0.6	<0.2	5.7	<0.01	0.04
G0561984		0.05	28.4	70	1.5	0.7	<0.001	0.02	7.43	1.9	<0.2	<0.2	24.3	<0.01	0.01
G0561985		0.08	<0.2	220	1.0	0.9	<0.001	0.02	0.06	0.3	0.2	<0.2	46.7	<0.01	0.01
G0561986		<0.05	367	10	2.5	0.6	<0.001	0.06	28.8	0.9	<0.2	<0.2	49.6	<0.01	0.04
G0561987		0.05	1120	10	17.2	1.4	<0.001	0.01	33.8	4.0	<0.2	<0.2	12.6	<0.01	0.04
G0561988		0.06	22.5	20	1.0	0.6	<0.001	0.01	0.16	10.9	0.2	<0.2	424	<0.01	0.02
G0561989		0.05	48.0	150	0.4	5.4	0.001	0.04	0.42	12.2	0.2	<0.2	274	<0.01	0.02
G0561990		5.48	10.2	670	>10000	10.2	0.008	0.58	0.27	6.3	1.2	108.5	118.0	<0.01	0.47
G0561991		0.59	0.8	230	79.7	21.1	<0.001	0.95	<0.05	0.8	0.5	4.0	4.2	<0.01	0.06
G0561992		0.75	4.9	250	69.9	7.3	<0.001	0.32	0.10	1.7	0.5	2.1	205	0.01	0.07
G0561993		0.31	4.9	220	4050	33.8	<0.001	3.85	0.14	0.6	8.0	1.2	25.8	<0.01	2.73
G0561994		0.22	22.4	1020	44.5	34.4	0.633	2.49	6.08	6.6	7.6	1.9	33.8	<0.01	0.99
G0561995		1.57	9.9	600	16.0	0.7	<0.001	1.12	0.05	1.5	0.4	17.7	82.5	0.02	0.23
G0561996		0.57	8.1	700	>10000	28.5	0.001	0.99	0.14	1.6	5.5	2.5	61.7	<0.01	0.78
G0561997		0.52	14.8	640	61.8	0.2	<0.001	4.60	0.47	0.8	1.1	14.0	78.4	<0.01	0.20
G0561998		4.26	3.5	360	15.8	0.3	0.010	1.42	0.11	1.5	0.6	30.3	35.9	0.13	4.41
G0561999		0.64	24.0	480	>10000	2.3	<0.001	3.11	0.23	3.9	3.3	15.7	84.2	0.01	1.01
G0562000		0.11	12.2	430	45.1	1.8	0.001	0.58	0.97	1.7	0.2	16.4	14.6	<0.01	0.02
K974501		0.20	4.6	520	>10000	7.6	<0.001	9.06	0.08	0.6	5.0	28.1	37.9	<0.01	2.15
K974502		0.61	4.5	450	3520	5.9	<0.001	>10.0	0.05	0.9	14.7	14.6	3.1	<0.01	0.34
K974503		0.52	0.7	40	39.2	13.1	0.001	1.62	<0.05	0.2	0.5	1.3	0.9	<0.01	0.02
K974504		0.24	0.5	110	68.6	18.2	<0.001	0.67	0.08	0.3	0.3	2.6	1.5	<0.01	0.06
K974505		0.17	0.5	20	16.8	16.5	<0.001	1.30	1.49	0.2	0.7	1.5	2.4	<0.01	0.04
K974506		0.21	0.5	60	22.3	11.5	<0.001	0.75	<0.05	0.2	0.6	1.3	0.7	<0.01	0.04
K974507		0.20	0.4	40	43.8	22.0	<0.001	0.87	0.06	0.3	0.5	2.2	1.2	<0.01	0.03
K974508		0.31	0.6	80	22.3	17.0	<0.001	0.34	0.14	0.3	0.4	2.3	3.5	<0.01	0.01



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 25- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138808

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm	Pb- OG46 Pb %	Zn- OG46 Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001
G0561973		<0.005	<0.02	0.10	4	0.19	1.44	11	<0.5		
G0561974		<0.005	0.02	0.10	4	0.13	3.97	33	1.7		
G0561975		<0.005	0.04	0.09	1	0.40	0.52	6	<0.5		
G0561976		<0.005	<0.02	<0.05	<1	0.08	0.06	291	<0.5		
G0561977		<0.005	<0.02	0.14	18	0.25	20.6	32	<0.5		
G0561978		<0.005	<0.02	0.14	20	0.26	21.5	29	<0.5		
G0561979		<0.005	0.03	0.12	1	<0.05	1.22	9	1.6		
G0561980		<0.005	0.02	0.05	<1	<0.05	2.67	4	1.9		
G0561981		0.005	0.03	0.48	1	0.13	28.7	13	8.0		
G0561982		<0.005	0.03	<0.05	6	0.10	8.65	19	<0.5		
G0561983		<0.005	<0.02	<0.05	1	0.07	0.13	13	<0.5		
G0561984		<0.005	0.03	0.18	9	0.19	1.20	13	3.1		
G0561985		<0.005	<0.02	0.44	2	<0.05	0.81	15	<0.5		
G0561986		<0.005	<0.02	0.06	2	0.35	0.36	7	<0.5		
G0561987		<0.005	0.02	0.08	6	0.66	0.40	11	<0.5		
G0561988		<0.005	<0.02	<0.05	67	0.07	5.78	27	<0.5		
G0561989		0.005	0.04	<0.05	96	0.13	7.02	22	<0.5		
G0561990		0.129	0.34	2.41	21	1570	9.07	5770	8.9	1.940	
G0561991		0.016	0.12	1.88	6	6.47	2.13	58	2.0		
G0561992		0.014	0.07	3.05	4	17.60	7.83	2480	1.9		
G0561993		0.014	0.70	1.98	3	98.7	2.18	>10000	1.0		6.83
G0561994		0.057	0.51	0.67	81	1.91	10.30	319	2.2		
G0561995		0.041	0.02	3.11	12	47.2	3.57	497	2.6		
G0561996		0.033	0.94	1.51	6	350	3.15	>10000	2.9	2.50	1.730
G0561997		0.034	0.04	1.13	9	89.9	2.67	1520	1.9		
G0561998		0.032	0.24	8.96	5	2250	3.04	1760	3.3		
G0561999		0.064	1.07	2.30	17	18.40	8.75	>10000	3.9	1.305	1.600
G0562000		<0.005	0.12	3.27	9	2.11	3.79	118	1.3		
K974501		0.008	0.41	0.67	3	130.5	0.54	>10000	1.6	2.79	5.65
K974502		0.007	0.17	1.70	5	54.9	2.23	>10000	1.6		16.95
K974503		<0.005	0.05	0.32	1	2.93	0.48	543	1.5		
K974504		<0.005	0.10	1.27	2	10.35	1.53	68	1.2		
K974505		<0.005	4.20	0.45	1	1.27	0.91	24	1.6		
K974506		<0.005	0.07	1.42	1	2.37	0.65	84	1.1		
K974507		<0.005	0.12	0.23	1	3.82	0.73	11	1.8		
K974508		<0.005	0.09	0.56	1	2.31	1.03	9	2.1		



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 25- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138808

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1
Finalized Date: 27- AUG- 2011
Account: F

CERTIFICATE WH11138809

Project: Andy/Has/Gam

P.O. No.: Batch 4

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 20-JUL- 2011.

The following have access to data associated with this certificate:

DOUG EATON

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME- MS41	51 anal. aqua regia ICPMS	
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Au- AA24	Au 50g FA AA finish	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 27- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138809

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
K974509		0.64	<0.005	0.01	0.32	0.4	<0.2	<10	<10	<0.05	0.01	0.16	0.03	0.32	2.7	19
K974510		0.88	<0.005	0.01	0.01	23.5	<0.2	<10	10	0.18	0.01	0.65	0.07	0.14	21.8	36
K974511		1.04	<0.005	0.02	0.14	115.0	<0.2	<10	10	0.10	0.02	0.18	0.04	0.49	55.6	345
K974512		0.92	<0.005	0.01	0.05	1.5	<0.2	<10	<10	0.05	0.02	0.01	0.02	1.28	0.8	19
K974513		1.12	<0.005	0.07	0.02	10.5	<0.2	<10	10	<0.05	0.29	0.14	0.01	1.74	0.6	11
K974514		1.12	<0.005	0.01	0.01	0.3	<0.2	<10	<10	<0.05	0.03	<0.01	<0.01	0.54	0.3	12
K974515		0.92	<0.005	0.01	0.02	0.7	<0.2	<10	<10	<0.05	0.01	0.01	<0.01	0.49	0.3	6
K974516		1.08	<0.005	32.0	0.02	5.0	<0.2	<10	10	0.19	96.4	0.01	5.11	0.47	0.5	12
K974517		1.06	0.009	0.14	0.11	44.6	<0.2	<10	110	0.10	0.38	0.11	0.02	0.04	45.6	741
K974518		0.84	<0.005	0.06	0.03	7.7	<0.2	<10	20	<0.05	0.16	0.02	0.09	1.19	0.9	18
K974519		1.24	<0.005	0.19	0.09	2.4	<0.2	<10	30	<0.05	0.58	0.01	0.03	0.68	1.1	11
K974520		0.84	<0.005	0.16	0.12	114.5	<0.2	<10	70	<0.05	0.33	0.76	0.03	3.09	2.8	20
K974521		1.20	<0.005	0.17	0.06	23.7	<0.2	<10	40	<0.05	0.03	1.71	0.03	14.40	4.4	12
K974522		0.94	0.006	0.81	0.02	53.9	<0.2	<10	30	<0.05	0.41	0.04	0.11	0.58	0.9	13
K974523		1.38	0.009	0.03	0.07	86.5	<0.2	<10	60	0.30	0.01	0.28	0.01	0.09	44.8	456
K974524		1.10	<0.005	0.03	0.06	52.7	<0.2	<10	20	0.07	0.01	0.41	0.03	0.16	43.9	377
K974525		0.68	0.329	2.49	0.10	3	<0.2	<10	220	<0.05	0.16	>25.0	0.81	16.80	2.2	37
K974526		0.64	<0.005	0.57	0.02	114.0	<0.2	<10	40	<0.05	0.98	0.15	0.10	0.50	1.0	20
K974527		1.10	<0.005	0.07	0.14	30.2	<0.2	<10	70	<0.05	0.07	0.08	0.14	4.08	2.7	13
K974528		1.00	<0.005	0.44	0.13	7.3	<0.2	<10	140	<0.05	0.47	0.22	0.38	4.14	2.9	13
K974529		0.30	0.431	2.09	1.01	115.0	0.3	<10	40	0.38	0.51	0.48	0.96	23.3	19.1	29
K974530		1.04	<0.005	0.02	0.02	66.6	<0.2	<10	20	<0.05	0.01	0.28	0.04	0.40	0.4	12
K974531		1.16	<0.005	0.41	0.11	17.9	<0.2	<10	50	<0.05	0.36	0.11	0.28	28.6	1.8	10
K974532		0.84	<0.005	0.06	2.81	0.9	<0.2	<10	10	0.05	0.01	0.44	0.08	0.68	33.2	22
K974533		1.00	0.011	0.44	3.74	3.4	<0.2	<10	100	0.05	0.04	0.67	0.19	0.24	29.6	195
K974534		1.02	0.010	0.31	3.86	13.2	<0.2	<10	470	0.06	0.05	1.66	0.09	3.74	67.8	119
K974535		0.84	0.005	0.08	0.23	326	<0.2	<10	70	0.09	0.11	1.40	0.07	17.30	10.7	22
K974536		1.12	<0.005	0.02	0.10	87.0	<0.2	<10	50	<0.05	0.01	0.04	0.01	1.35	0.9	14
K974537		1.10	<0.005	0.02	0.04	30.3	<0.2	<10	20	0.12	0.02	0.09	0.04	0.32	33.7	170
K974538		1.04	<0.005	0.11	0.04	55.5	<0.2	<10	20	0.06	0.07	0.11	0.03	0.39	54.0	242
K974539		1.12	<0.005	0.11	0.08	1.7	<0.2	<10	40	<0.05	0.12	0.09	0.07	0.18	1.3	15
K974540		1.24	<0.005	0.05	0.04	1.3	<0.2	<10	20	<0.05	0.06	0.17	0.03	1.97	1.2	14
K974541		1.24	0.012	0.03	0.07	94.9	<0.2	<10	60	1.61	<0.01	1.60	0.01	0.04	68.0	648
K974542		1.42	<0.005	<0.01	0.03	<2	<0.2	<10	10	<0.05	0.02	20.3	0.05	1.56	1.0	3
K974543		0.98	0.013	0.03	0.09	51.8	<0.2	<10	40	0.64	<0.01	1.29	0.01	0.05	53.5	640
K974544		1.38	0.025	0.03	0.09	83.9	<0.2	10	1820	0.35	<0.01	0.31	0.01	0.05	74.0	841



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
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CERTIFICATE OF ANALYSIS WH11138809

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
K974509		<0.05	2.2	0.59	0.71	0.05	<0.02	<0.01	<0.005	<0.01	<0.2	2.4	0.29	78	0.30	<0.01
K974510		<0.05	0.8	1.70	0.15	0.06	<0.02	0.02	<0.005	<0.01	<0.2	1.7	9.99	469	0.61	<0.01
K974511		0.30	3.4	2.60	0.48	0.11	<0.02	0.06	<0.005	<0.01	0.3	2.0	8.07	211	0.25	<0.01
K974512		0.09	5.8	0.59	0.41	<0.05	<0.02	<0.01	<0.005	0.01	0.4	1.1	0.05	54	0.29	<0.01
K974513		0.05	3.8	0.42	0.19	<0.05	<0.02	<0.01	<0.005	0.01	0.7	0.2	0.03	57	1.01	<0.01
K974514		<0.05	2.5	0.37	0.14	<0.05	<0.02	<0.01	<0.005	0.01	0.2	0.2	<0.01	44	0.17	<0.01
K974515		0.06	1.4	0.20	0.13	<0.05	<0.02	<0.01	<0.005	0.01	0.2	0.2	0.02	21	0.10	<0.01
K974516		0.09	46.1	1.20	0.19	0.09	<0.02	0.01	0.024	<0.01	0.2	0.3	0.01	71	0.58	<0.01
K974517		2.77	2.2	4.15	0.64	0.12	<0.02	0.01	<0.005	0.01	<0.2	6.0	13.55	608	0.11	<0.01
K974518		<0.05	2.9	0.59	0.21	<0.05	<0.02	<0.01	0.005	<0.01	0.5	1.2	0.05	274	0.18	<0.01
K974519		<0.05	2.8	0.39	0.26	<0.05	<0.02	<0.01	<0.005	<0.01	0.2	2.1	0.01	229	0.21	<0.01
K974520		0.31	47.6	0.74	0.35	<0.05	0.06	<0.01	0.007	0.05	1.4	3.7	0.38	274	0.13	<0.01
K974521		0.15	33.1	1.27	0.31	0.05	0.02	<0.01	0.022	0.02	4.4	0.9	0.50	493	0.21	0.01
K974522		<0.05	118.0	0.47	0.14	<0.05	<0.02	0.01	0.005	0.01	0.3	1.1	0.02	281	0.33	<0.01
K974523		2.20	3.5	3.27	0.27	0.10	<0.02	0.51	<0.005	0.01	<0.2	7.7	22.0	404	0.11	<0.01
K974524		0.17	4.6	2.77	0.42	0.12	<0.02	0.01	<0.005	<0.01	<0.2	2.6	11.15	421	0.11	<0.01
K974525		<0.05	72.6	0.29	0.38	<0.05	<0.02	0.01	0.021	<0.01	13.5	1.2	0.47	2600	<0.05	0.01
K974526		0.08	2.1	0.45	0.11	<0.05	<0.02	0.01	<0.005	0.01	0.2	1.2	0.16	128	0.17	<0.01
K974527		0.09	12.8	0.59	0.30	<0.05	0.07	0.01	<0.005	0.01	1.9	1.5	0.07	331	0.30	<0.01
K974528		0.11	24.3	0.70	0.29	<0.05	0.09	0.03	0.006	0.01	2.0	3.0	0.02	256	0.82	<0.01
K974529		3.49	4570	4.64	3.95	0.13	0.08	0.11	0.051	0.57	11.9	3.8	0.62	511	265	0.03
K974530		<0.05	2.6	0.42	0.10	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.3	0.10	233	0.23	<0.01
K974531		0.08	29.8	0.80	0.45	<0.05	0.29	0.02	0.013	0.01	14.5	0.8	0.04	592	0.50	0.08
K974532		3.10	1665	4.72	4.65	0.10	0.06	0.02	0.012	0.02	0.3	12.6	2.35	653	0.59	0.01
K974533		0.30	4910	6.78	6.97	0.33	0.04	0.30	0.266	<0.01	<0.2	20.0	3.22	622	18.65	<0.01
K974534		0.88	6500	7.86	8.13	0.17	0.03	0.11	0.128	0.01	1.6	14.2	3.27	917	3.19	0.01
K974535		0.61	50.9	1.58	0.66	<0.05	0.17	0.01	0.022	0.03	6.9	4.9	1.03	720	0.25	<0.01
K974536		<0.05	64.6	0.39	0.23	<0.05	<0.02	0.01	0.005	<0.01	0.7	1.1	0.21	73	0.35	<0.01
K974537		0.87	44.1	2.65	0.37	0.06	<0.02	0.02	<0.005	0.01	0.2	2.7	9.98	509	0.19	<0.01
K974538		1.07	24.2	5.02	0.22	0.08	<0.02	0.06	<0.005	0.02	0.2	3.0	13.90	514	0.14	<0.01
K974539		0.19	10.8	0.37	0.21	<0.05	<0.02	0.01	<0.005	<0.01	<0.2	9.7	0.11	118	0.15	<0.01
K974540		0.11	13.3	0.44	0.16	<0.05	0.02	<0.01	<0.005	0.01	0.9	5.0	0.11	146	0.16	<0.01
K974541		5.91	5.6	4.51	0.40	0.11	<0.02	0.16	<0.005	0.02	<0.2	6.8	14.10	680	0.17	0.01
K974542		0.21	1.6	0.37	0.14	<0.05	<0.02	<0.01	<0.005	0.02	0.8	1.0	12.35	202	<0.05	0.01
K974543		2.62	4.8	4.00	0.47	0.09	<0.02	0.07	<0.005	0.01	<0.2	8.0	16.50	920	0.13	0.01
K974544		5.84	5.3	3.83	0.38	0.10	<0.02	0.33	<0.005	0.01	<0.2	20.6	19.20	721	0.15	0.01



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Page: 2 - C
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 27- AUG- 2011
Account: F

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CERTIFICATE OF ANALYSIS WH11138809

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
K974509		0.05	10.0	60	0.4	0.2	<0.001	0.02	0.49	1.0	<0.2	<0.2	4.4	<0.01	<0.01	<0.2
K974510		<0.05	255	10	0.6	0.2	<0.001	0.02	0.19	1.7	<0.2	<0.2	76.9	<0.01	<0.01	<0.2
K974511		0.07	1140	30	0.7	0.6	<0.001	0.02	0.43	4.1	<0.2	<0.2	17.7	<0.01	0.01	<0.2
K974512		0.08	6.3	40	0.5	1.0	<0.001	0.01	0.06	0.3	<0.2	<0.2	0.4	<0.01	0.01	<0.2
K974513		0.06	3.1	610	5.6	0.4	<0.001	0.01	<0.05	0.3	<0.2	<0.2	11.4	<0.01	0.02	<0.2
K974514		0.06	1.3	20	0.5	0.5	<0.001	0.01	<0.05	0.1	<0.2	<0.2	0.4	<0.01	<0.01	<0.2
K974515		0.06	5.9	30	0.5	0.8	<0.001	0.57	<0.05	0.1	<0.2	<0.2	0.3	<0.01	<0.01	<0.2
K974516		0.09	2.5	40	>10000	0.4	<0.001	0.25	3.89	0.2	12.5	10.0	0.6	<0.01	4.94	<0.2
K974517		0.05	602	<10	47.7	1.3	<0.001	0.01	23.6	5.0	<0.2	<0.2	4.8	<0.01	0.03	<0.2
K974518		0.09	15.7	90	14.0	0.3	<0.001	0.02	0.96	0.4	<0.2	<0.2	1.2	<0.01	0.01	<0.2
K974519		<0.05	15.7	50	72.8	0.2	<0.001	0.02	0.67	0.4	<0.2	<0.2	2.7	<0.01	0.03	<0.2
K974520		0.05	16.3	110	26.4	2.5	<0.001	0.06	3.87	1.1	0.2	<0.2	25.1	<0.01	0.03	0.5
K974521		0.09	10.1	220	2.9	1.7	<0.001	0.08	2.22	5.1	<0.2	<0.2	77.7	<0.01	0.01	1.1
K974522		<0.05	11.1	30	16.2	0.4	<0.001	0.04	37.7	0.5	<0.2	<0.2	3.0	<0.01	0.01	<0.2
K974523		0.05	779	10	0.8	1.8	<0.001	0.04	36.1	4.2	<0.2	<0.2	17.5	<0.01	<0.01	<0.2
K974524		0.05	795	10	1.7	0.2	<0.001	0.02	3.99	4.4	<0.2	<0.2	45.4	<0.01	0.01	<0.2
K974525		0.12	20.5	10	13.3	<0.1	<0.001	<0.01	4.90	3.1	0.3	<0.2	1570	<0.01	0.02	0.2
K974526		0.11	11.5	30	84.9	0.6	<0.001	0.01	0.80	0.2	0.2	<0.2	4.0	<0.01	0.03	<0.2
K974527		0.05	19.3	130	3.8	0.9	<0.001	<0.01	2.66	0.6	0.3	<0.2	9.7	<0.01	0.01	0.5
K974528		<0.05	17.1	150	25.3	0.7	<0.001	<0.01	4.14	0.7	0.7	<0.2	22.5	<0.01	0.06	0.6
K974529		0.24	23.8	1060	35.1	34.9	0.670	2.59	6.06	7.0	8.6	1.9	36.2	<0.01	1.00	1.7
K974530		0.06	4.1	90	1.0	0.1	<0.001	0.01	0.47	0.6	<0.2	<0.2	49.1	<0.01	0.01	<0.2
K974531		0.08	12.7	210	48.6	0.4	<0.001	0.01	2.43	1.6	0.3	<0.2	15.7	<0.01	0.06	7.1
K974532		0.06	32.6	130	1.0	2.2	<0.001	0.03	0.43	2.9	1.2	<0.2	16.8	<0.01	0.02	<0.2
K974533		0.08	56.5	60	0.7	0.1	0.032	0.39	1.00	6.3	34.1	0.3	33.1	<0.01	0.45	<0.2
K974534		0.08	61.9	100	1.4	0.4	0.001	0.10	0.49	11.2	6.5	<0.2	21.2	<0.01	0.13	<0.2
K974535		<0.05	117.5	90	9.6	1.8	<0.001	0.01	5.95	6.5	0.2	<0.2	140.5	<0.01	0.02	1.8
K974536		<0.05	5.1	60	0.5	0.2	0.001	0.01	1.23	0.4	0.5	<0.2	6.6	<0.01	0.02	<0.2
K974537		0.06	790	20	0.9	1.5	<0.001	<0.01	32.1	3.1	<0.2	<0.2	18.2	<0.01	0.02	<0.2
K974538		0.06	746	<10	1.6	3.2	<0.001	0.02	49.5	3.5	0.2	<0.2	25.1	<0.01	0.04	<0.2
K974539		0.05	9.6	50	7.3	0.3	<0.001	<0.01	0.88	0.3	0.2	<0.2	7.2	<0.01	0.01	<0.2
K974540		0.05	17.0	80	5.8	0.7	<0.001	<0.01	0.62	0.4	<0.2	<0.2	5.1	<0.01	0.02	0.2
K974541		0.05	1430	10	1.0	3.9	<0.001	0.01	386	6.0	0.2	<0.2	118.0	<0.01	0.02	<0.2
K974542		0.11	3.9	260	1.1	1.2	<0.001	0.01	0.50	0.3	0.2	<0.2	52.0	<0.01	0.02	<0.2
K974543		<0.05	1210	10	1.0	2.1	<0.001	0.01	155.5	4.4	<0.2	<0.2	96.2	<0.01	0.02	<0.2
K974544		<0.05	1555	10	1.5	1.8	<0.001	0.07	27.8	5.8	0.2	<0.2	17.3	<0.01	0.01	<0.2



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 27- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138809

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm	Pb- OG46 Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
K974509		0.026	<0.02	<0.05	9	0.09	0.51	3	<0.5	
K974510		<0.005	<0.02	<0.05	2	0.24	0.11	17	<0.5	
K974511		<0.005	0.11	0.09	5	0.32	0.28	8	<0.5	
K974512		<0.005	<0.02	0.06	3	0.07	0.47	3	<0.5	
K974513		<0.005	<0.02	<0.05	2	0.14	3.29	<2	<0.5	
K974514		<0.005	<0.02	<0.05	1	0.06	0.12	<2	<0.5	
K974515		<0.005	<0.02	<0.05	<1	<0.05	0.10	<2	<0.5	
K974516		<0.005	0.05	0.13	2	10.45	0.61	46	<0.5	1.445
K974517		<0.005	0.02	<0.05	12	0.20	0.18	3	<0.5	
K974518		<0.005	<0.02	<0.05	1	0.07	1.14	8	<0.5	
K974519		<0.005	<0.02	<0.05	<1	0.07	0.36	2	<0.5	
K974520		<0.005	0.02	0.05	1	0.08	1.23	5	2.0	
K974521		<0.005	<0.02	<0.05	5	0.07	3.09	9	0.6	
K974522		<0.005	<0.02	<0.05	<1	0.08	0.41	13	<0.5	
K974523		<0.005	0.13	<0.05	13	6.88	0.21	9	<0.5	
K974524		<0.005	<0.02	<0.05	6	0.14	0.13	5	<0.5	
K974525		<0.005	<0.02	<0.05	1	0.05	8.14	<2	<0.5	
K974526		<0.005	<0.02	<0.05	1	0.09	0.47	4	<0.5	
K974527		<0.005	<0.02	0.14	1	0.09	1.01	22	3.7	
K974528		<0.005	<0.02	0.22	2	0.11	0.89	58	4.9	
K974529		0.058	0.42	0.59	84	1.32	11.70	141	2.7	
K974530		<0.005	<0.02	<0.05	1	<0.05	1.30	5	<0.5	
K974531		<0.005	<0.02	0.55	2	<0.05	3.43	18	11.0	
K974532		0.109	<0.02	0.06	66	<0.05	3.17	17	1.4	
K974533		0.121	<0.02	0.16	93	0.05	1.31	26	1.2	
K974534		0.045	<0.02	0.08	119	0.07	5.58	38	0.6	
K974535		<0.005	0.02	0.13	8	0.17	2.42	33	7.1	
K974536		<0.005	<0.02	<0.05	2	0.06	0.26	2	0.5	
K974537		<0.005	0.02	<0.05	5	0.16	0.15	6	<0.5	
K974538		<0.005	0.03	0.05	8	0.15	0.12	6	<0.5	
K974539		<0.005	<0.02	<0.05	<1	<0.05	0.26	11	0.9	
K974540		<0.005	<0.02	<0.05	1	<0.05	0.60	3	0.9	
K974541		<0.005	0.04	<0.05	16	3.22	0.20	10	<0.5	
K974542		<0.005	<0.02	0.44	2	<0.05	1.20	13	<0.5	
K974543		<0.005	0.02	<0.05	15	0.76	0.15	9	<0.5	
K974544		<0.005	0.10	<0.05	20	0.26	0.24	14	<0.5	



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 27- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138809

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1
Finalized Date: 27- AUG- 2011
Account: F

CERTIFICATE WH11138830

Project: Andy/Has/Gam

P.O. No.: Batch 5

This report is for 21 Rock samples submitted to our lab in Whitehorse, YT, Canada on 20-JUL- 2011.

The following have access to data associated with this certificate:

DOUG EATON

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% <2mm
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME- MS41	51 anal. aqua regia ICPMS	
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Au- AA24	Au 50g FA AA finish	AAS

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ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 27- AUG- 2011
 Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138830

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
K974545		0.50	<0.005	21.2	0.02	0.8	<0.2	<10	<10	<0.05	54.5	0.02	1.75	0.18	0.4	15
K974546		0.62	<0.005	13.80	0.02	1.2	<0.2	<10	<10	0.05	45.8	0.01	1.43	1.16	0.3	13
K974547		0.98	<0.005	0.09	0.08	5.9	<0.2	<10	320	0.06	0.13	0.06	0.04	0.11	20.1	297
K974548		0.90	0.065	0.51	0.14	171.5	<0.2	<10	50	0.21	0.30	0.01	0.09	11.45	1.0	20
K974549		1.62	<0.005	0.03	0.03	2	<0.2	<10	20	<0.05	0.09	20.1	0.05	1.46	0.9	2
K974550		1.08	<0.005	0.02	0.03	1.2	<0.2	<10	10	<0.05	0.01	0.07	0.04	0.33	6.3	62
K974551		1.20	<0.005	0.04	0.04	3.5	<0.2	<10	<10	0.09	0.05	0.02	0.01	0.51	0.7	16
K974552		0.70	0.007	5.15	0.01	0.7	<0.2	<10	<10	<0.05	9.59	0.07	0.33	1.00	0.3	17
K974553		0.84	0.022	>100	0.01	16.5	<0.2	<10	<10	0.06	311	0.18	96.3	0.10	0.6	20
K974554		0.76	<0.005	0.11	0.54	0.2	<0.2	<10	40	<0.05	0.46	0.36	0.13	0.73	2.5	20
K974555		0.66	<0.005	0.07	0.55	<0.1	<0.2	<10	20	<0.05	0.19	0.11	0.05	0.14	3.7	13
K974556		0.30	0.427	2.45	1.24	111.5	0.3	<10	50	0.56	1.54	0.49	1.32	24.8	17.9	31
K974557		0.94	0.039	0.24	0.17	2.3	<0.2	<10	20	0.32	0.72	0.01	0.04	2.78	2.9	20
K974558		0.70	<0.005	0.04	0.10	1.5	<0.2	<10	10	0.19	0.11	0.01	0.03	3.20	1.5	18
K974559		1.12	<0.005	7.41	0.01	1.0	<0.2	<10	<10	<0.05	21.7	0.01	1.50	0.20	0.2	17
K974560		0.98	<0.005	0.08	0.04	0.5	<0.2	<10	<10	<0.05	0.20	0.01	0.01	0.40	0.8	13
K974561		1.18	<0.005	0.02	0.02	0.4	<0.2	<10	<10	<0.05	0.04	<0.01	<0.01	0.74	0.8	17
K974562		1.02	<0.005	0.08	0.03	17.0	<0.2	<10	10	0.63	0.19	0.01	0.04	0.23	5.8	101
K974563		0.78	<0.005	0.01	0.02	0.4	<0.2	<10	<10	<0.05	0.02	0.01	0.01	1.49	0.4	15
K974564		1.22	<0.005	0.05	0.13	138.0	<0.2	<10	10	0.30	0.02	0.66	0.03	0.05	73.0	478
K974565		1.12	<0.005	0.03	0.13	312	<0.2	<10	30	0.34	0.04	0.36	0.08	0.11	50.4	449



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 27- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138830

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
K974545		<0.05	3.5	0.36	0.15	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.1	0.02	44	0.12	<0.01
K974546		0.06	4.0	0.35	0.16	<0.05	<0.02	0.01	<0.005	0.01	0.6	0.2	0.01	36	0.12	<0.01
K974547		0.07	3.2	1.26	0.28	0.06	<0.02	<0.01	<0.005	<0.01	<0.2	1.8	2.44	128	0.16	<0.01
K974548		0.37	5.1	0.51	0.66	<0.05	0.06	0.04	0.005	0.10	6.5	1.2	0.02	49	0.21	<0.01
K974549		0.33	1.0	0.38	0.13	<0.05	<0.02	<0.01	<0.005	0.02	0.7	1.1	12.40	181	0.05	0.02
K974550		0.45	2.0	0.36	0.17	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.7	0.37	181	0.12	<0.01
K974551		0.06	5.5	0.59	0.17	<0.05	<0.02	0.11	<0.005	0.01	0.2	0.3	0.01	50	0.15	<0.01
K974552		<0.05	2.1	0.27	0.09	<0.05	<0.02	0.08	0.010	<0.01	0.2	0.1	0.01	28	0.08	<0.01
K974553		<0.05	1.5	0.35	0.08	0.26	<0.02	0.12	0.114	<0.01	<0.2	0.1	0.12	49	0.13	<0.01
K974554		0.39	33.2	0.64	1.14	0.06	<0.02	<0.01	0.005	0.01	0.3	2.3	0.27	81	0.32	0.06
K974555		0.33	5.0	0.67	1.28	<0.05	<0.02	0.01	<0.005	0.01	<0.2	2.5	0.40	83	0.13	0.02
K974556		3.56	4600	4.80	4.49	0.12	0.09	0.10	0.055	0.66	12.9	5.8	0.65	525	272	0.04
K974557		0.24	50.7	1.78	0.59	<0.05	0.03	0.49	0.013	0.04	1.5	1.0	0.01	75	0.54	<0.01
K974558		0.28	13.5	1.15	0.32	<0.05	<0.02	<0.01	<0.005	0.04	1.7	0.7	0.01	74	0.38	<0.01
K974559		<0.05	15.5	0.32	0.09	<0.05	<0.02	<0.01	0.012	<0.01	<0.2	0.1	<0.01	33	0.91	<0.01
K974560		0.09	5.8	0.41	0.18	<0.05	<0.02	0.01	<0.005	0.01	0.2	0.4	<0.01	45	0.13	<0.01
K974561		0.07	1.8	0.37	0.18	<0.05	<0.02	<0.01	<0.005	0.01	0.4	0.4	<0.01	53	0.19	<0.01
K974562		0.22	3.3	0.66	0.16	0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.9	0.18	105	0.17	<0.01
K974563		<0.05	1.3	0.33	0.12	<0.05	<0.02	<0.01	<0.005	<0.01	0.4	0.1	0.01	35	0.09	<0.01
K974564		0.39	24.9	3.55	0.44	0.13	<0.02	0.03	<0.005	<0.01	<0.2	1.4	11.35	348	0.21	<0.01
K974565		0.41	8.5	2.80	0.42	0.10	<0.02	0.02	<0.005	<0.01	<0.2	2.0	11.65	433	0.19	<0.01



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 27- AUG- 2011
 Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138830

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
K974545		0.05	1.6	10	7390	0.1	<0.001	0.08	4.07	0.1	6.8	1.1	0.9	<0.01	8.06	<0.2
K974546		0.05	1.2	10	4430	1.0	<0.001	0.07	0.84	0.2	6.1	1.0	0.4	<0.01	5.85	<0.2
K974547		<0.05	349	30	9.9	0.3	<0.001	0.01	0.14	2.1	<0.2	<0.2	0.8	<0.01	0.03	<0.2
K974548		<0.05	10.8	30	27.2	8.0	<0.001	0.02	6.25	0.7	0.8	<0.2	8.5	<0.01	0.14	1.9
K974549		0.11	1.9	230	8.8	1.5	<0.001	0.01	<0.05	0.3	0.2	<0.2	56.4	<0.01	0.02	<0.2
K974550		0.08	88.3	20	0.8	1.1	<0.001	<0.01	0.13	0.5	<0.2	<0.2	0.4	<0.01	<0.01	<0.2
K974551		<0.05	2.9	50	6.5	1.1	<0.001	<0.01	0.81	0.6	<0.2	<0.2	1.3	<0.01	0.02	<0.2
K974552		<0.05	2.1	10	2070	0.1	0.001	<0.01	0.14	0.1	0.7	1.0	3.8	<0.01	0.34	<0.2
K974553		0.06	4.8	<10	>10000	0.1	<0.001	1.62	8.54	0.1	86.9	13.6	4.5	<0.01	37.3	<0.2
K974554		0.06	9.2	180	152.0	0.8	0.001	0.01	<0.05	1.4	0.2	<0.2	7.4	<0.01	0.05	<0.2
K974555		0.07	13.5	30	52.6	0.7	<0.001	<0.01	<0.05	0.3	<0.2	<0.2	15.1	<0.01	0.02	<0.2
K974556		0.19	21.7	1070	400	36.5	0.677	2.60	6.37	7.2	8.7	2.2	38.5	<0.01	1.17	1.9
K974557		<0.05	8.1	120	20.7	4.2	0.001	0.01	1.01	2.0	0.7	0.4	2.7	<0.01	0.14	0.6
K974558		0.10	6.6	80	9.0	3.2	<0.001	<0.01	0.13	0.8	<0.2	<0.2	1.4	<0.01	0.04	0.5
K974559		0.06	0.9	20	1310	0.3	0.002	0.02	0.20	0.1	1.4	1.0	0.4	<0.01	1.69	<0.2
K974560		<0.05	1.9	50	9.7	1.1	<0.001	<0.01	0.06	0.2	<0.2	<0.2	0.3	<0.01	0.03	<0.2
K974561		0.07	1.8	10	3.2	0.7	<0.001	<0.01	<0.05	0.5	<0.2	<0.2	<0.2	<0.01	0.01	<0.2
K974562		0.07	109.0	20	25.2	0.5	<0.001	0.07	0.21	0.7	<0.2	<0.2	0.5	<0.01	0.02	<0.2
K974563		0.06	3.6	10	2.1	0.1	<0.001	0.08	<0.05	0.2	<0.2	<0.2	0.2	<0.01	<0.01	<0.2
K974564		0.06	1320	10	2.0	0.4	<0.001	0.14	1.03	6.2	0.6	<0.2	144.0	<0.01	0.02	<0.2
K974565		0.06	862	20	6.4	0.5	<0.001	0.05	2.02	3.5	0.4	<0.2	104.5	<0.01	0.02	<0.2



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Page: 2 - D
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 27- AUG- 2011
 Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138830

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm	Ag- OG46 Ag ppm	Pb- OG46 Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001
K974545		<0.005	0.05	<0.05	2	0.07	0.12	3	<0.5		
K974546		<0.005	0.19	<0.05	1	0.12	0.17	2	<0.5		
K974547		<0.005	<0.02	<0.05	8	0.20	0.10	14	<0.5		
K974548		<0.005	0.07	0.12	4	0.17	1.05	3	2.2		
K974549		<0.005	<0.02	0.55	1	0.11	1.03	13	<0.5		
K974550		<0.005	<0.02	<0.05	2	0.12	0.09	12	<0.5		
K974551		<0.005	0.03	0.05	2	0.38	0.70	4	<0.5		
K974552		<0.005	<0.02	<0.05	<1	83.9	2.62	19	<0.5		
K974553		<0.005	0.91	<0.05	1	3.56	0.07	1240	<0.5	100	10.60
K974554		0.022	<0.02	<0.05	15	0.82	0.91	8	<0.5		
K974555		<0.005	<0.02	<0.05	6	7.22	0.07	10	<0.5		
K974556		0.058	0.46	0.64	90	1.54	11.80	149	2.8		
K974557		<0.005	0.10	0.14	8	0.50	1.51	13	1.2		
K974558		<0.005	0.07	0.16	4	0.70	1.14	4	1.6		
K974559		<0.005	<0.02	<0.05	1	0.14	0.07	66	<0.5		
K974560		<0.005	<0.02	<0.05	1	0.09	0.15	2	<0.5		
K974561		<0.005	<0.02	<0.05	4	0.25	0.16	2	<0.5		
K974562		<0.005	<0.02	<0.05	4	0.37	0.13	7	<0.5		
K974563		<0.005	<0.02	0.05	<1	0.08	0.42	<2	<0.5		
K974564		<0.005	0.11	<0.05	7	0.81	0.17	10	<0.5		
K974565		<0.005	0.05	<0.05	7	0.65	0.15	24	<0.5		



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 27- AUG- 2011
Account: F

Project: Andy/Has/Gam

CERTIFICATE OF ANALYSIS WH11138830

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1
Finalized Date: 9- SEP- 2011
Account: F

CERTIFICATE WH11146373

Project: Wolverine- Finlayson

P.O. No.:

This report is for 28 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 2 (A - C)
Finalized Date: 9- SEP- 2011
Account: F

Project: Wolverine- Finlayson

CERTIFICATE OF ANALYSIS WH11146373

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I357288		0.41	0.672	0.4	0.05	>10000	<10	<10	<0.5	160	0.06	<0.5	16	12	184	11.70
I357289		0.83	<0.005	<0.2	0.59	45	<10	30	0.9	<2	12.9	1.1	5	7	14	1.83
I357290		0.89	0.121	1.3	0.37	>10000	10	20	1.1	76	7.03	9.0	2	11	6	2.14
I357291		0.46	0.022	0.6	2.37	1785	<10	90	2.7	8	0.60	9.6	16	31	25	4.69
I357292		0.55	<0.005	0.4	3.34	1950	10	20	4.6	<2	1.57	3.1	24	6	52	6.78
I357293		0.38	0.149	1.2	1.62	>10000	10	50	3.0	46	2.81	8.1	8	15	25	5.84
I357294		0.75	0.027	0.5	2.87	6620	<10	50	3.9	13	0.94	6.1	18	42	32	5.49
I357295		0.75	0.021	0.8	3.71	2760	10	70	6.0	8	3.09	3.8	18	38	33	4.57
I357296		0.83	0.324	5.7	0.29	>10000	<10	30	0.9	156	0.44	23.5	5	16	4	2.96
I357297		0.39	0.057	47.8	0.12	>10000	<10	10	1.0	549	0.17	64.0	1	16	6	1.64
I357298		0.82	0.049	0.6	0.28	>10000	20	20	0.5	14	1.29	132.5	13	16	6	3.30
I357299		0.33	<0.005	0.3	0.23	75	<10	350	<0.5	2	3.04	5.2	9	5	46	3.83
I357300		0.47	0.022	<0.2	0.17	200	<10	20	<0.5	<2	0.28	<0.5	75	599	28	3.62
K975201		0.87	0.008	1.9	0.30	518	<10	30	<0.5	<2	0.16	<0.5	66	736	9	4.06
K975202		0.70	<0.005	0.2	0.59	18	<10	30	<0.5	<2	4.32	<0.5	2	13	2	1.30
K975203		0.56	<0.005	0.7	0.82	25	<10	110	<0.5	<2	0.02	<0.5	5	22	51	2.43
K975204		0.36	<0.005	0.3	0.89	15	<10	300	0.5	<2	0.06	<0.5	7	17	61	4.39
K975205		0.64	<0.005	<0.2	0.37	8	<10	100	<0.5	<2	1.16	<0.5	3	14	9	1.11
K975206		0.82	<0.005	0.2	0.32	19	<10	210	<0.5	<2	1.96	<0.5	3	12	20	1.54
K975207		0.87	<0.005	0.8	0.25	7	<10	90	<0.5	<2	0.52	<0.5	1	13	118	0.58
K975208		0.58	0.077	31.3	0.13	26	<10	460	<0.5	<2	0.28	<0.5	2	20	149	1.38
K975209		0.63	0.023	5.5	0.31	5	<10	150	<0.5	20	0.02	<0.5	1	11	74	0.68
K975210		0.79	<0.005	0.2	0.65	15	<10	80	<0.5	<2	9.6	<0.5	6	5	29	3.46
K975211		0.22	0.010	0.9	1.10	2	<10	20	<0.5	9	0.44	<0.5	214	8	1275	22.7
K975212		0.65	0.007	<0.2	0.14	4	<10	10	<0.5	<2	0.80	<0.5	41	665	20	3.96
K975213		0.47	<0.005	<0.2	0.02	4	<10	<10	<0.5	<2	0.03	<0.5	1	22	2	0.34
K975214		1.09	<0.005	1.2	0.02	6	<10	<10	<0.5	5	0.01	<0.5	1	20	20	0.94
K975215		0.51	0.008	<0.2	0.16	4	<10	10	<0.5	<2	0.06	<0.5	49	870	6	4.37



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Page: 2 - B
Total # Pages: 2 (A - C)
Finalized Date: 9- SEP- 2011
Account: F

Project: Wolverine- Finlayson

CERTIFICATE OF ANALYSIS WH11146373

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
I357288		<10	<1	<0.01	<10	0.06	77	<1	<0.01	<1	<10	4	8.09	2	<1	4
I357289		<10	<1	0.21	30	0.29	642	<1	0.02	8	440	14	0.19	<2	3	926
I357290		<10	<1	0.14	<10	0.05	92	1	0.02	1	30	20	0.37	<2	<1	174
I357291		10	1	0.42	50	0.99	642	<1	0.03	36	530	25	<0.01	<2	5	73
I357292		10	<1	0.28	20	1.38	965	<1	0.02	21	1490	5	<0.01	<2	11	89
I357293		<10	1	0.55	20	0.29	344	1	0.05	13	100	305	0.20	3	3	201
I357294		10	<1	0.52	60	1.18	629	<1	0.02	50	470	40	<0.01	2	5	70
I357295		10	1	0.90	60	1.02	721	<1	0.09	44	420	57	<0.01	<2	7	142
I357296		<10	<1	0.12	<10	0.04	77	<1	0.01	3	30	57	1.26	3	<1	37
I357297		<10	<1	0.05	<10	0.02	57	<1	<0.01	1	10	592	0.59	3	<1	33
I357298		<10	<1	0.14	<10	0.02	45	<1	0.01	3	20	3	1.78	5	<1	40
I357299		<10	<1	0.11	10	1.17	2410	8	0.01	31	2250	10	0.03	2	2	233
I357300		<10	<1	<0.01	<10	11.55	412	<1	<0.01	1455	10	<2	0.23	<2	5	83
K975201		<10	<1	<0.01	<10	12.35	615	<1	<0.01	1065	30	<2	0.08	52	5	13
K975202		<10	<1	0.11	20	2.20	699	2	0.01	15	70	9	<0.01	<2	1	119
K975203		<10	<1	0.33	30	0.25	223	3	0.01	30	400	10	0.04	<2	2	13
K975204		<10	<1	0.44	30	0.15	230	3	0.01	45	440	9	0.07	2	3	25
K975205		<10	<1	0.18	10	0.37	281	1	0.01	11	290	2	0.02	<2	1	24
K975206		<10	<1	0.16	10	0.74	472	3	0.01	10	150	5	0.04	<2	2	41
K975207		<10	<1	0.15	10	0.02	158	1	0.02	1	60	18	0.11	<2	<1	6
K975208		<10	<1	0.05	<10	0.09	329	6	<0.01	7	90	75	0.48	2	1	7
K975209		<10	<1	0.21	10	0.01	42	9	0.01	1	20	16	0.09	<2	<1	3
K975210		<10	<1	0.19	10	4.03	998	5	0.01	4	310	16	0.15	<2	5	190
K975211		<10	<1	0.02	10	0.31	1350	<1	0.02	21	400	9	>10.0	<2	1	14
K975212		<10	<1	<0.01	<10	10.85	1055	<1	0.01	353	40	2	0.11	<2	6	35
K975213		<10	<1	<0.01	<10	0.08	44	<1	<0.01	6	10	<2	<0.01	<2	<1	1
K975214		<10	<1	<0.01	<10	0.02	65	<1	<0.01	2	30	225	<0.01	<2	<1	<1
K975215		<10	<1	<0.01	<10	11.65	690	<1	<0.01	695	10	2	0.02	<2	4	<1



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Page: 2 - C
 Total # Pages: 2 (A - C)
 Finalized Date: 9- SEP- 2011
 Account: F

Project: Wolverine- Finlayson

CERTIFICATE OF ANALYSIS WH11146373

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
I357288		<20	<0.01	<10	<10	1	<10	3
I357289		20	<0.01	<10	<10	5	<10	51
I357290		<20	<0.01	<10	<10	3	60	170
I357291		20	0.02	<10	<10	25	40	604
I357292		<20	0.01	<10	<10	160	40	374
I357293		<20	0.01	<10	<10	12	10	274
I357294		20	0.01	<10	<10	28	10	438
I357295		20	0.01	<10	<10	28	20	335
I357296		<20	<0.01	<10	<10	2	310	313
I357297		<20	<0.01	<10	<10	1	<10	1290
I357298		<20	<0.01	<10	<10	1	<10	3590
I357299		<20	<0.01	<10	<10	21	<10	166
I357300		<20	<0.01	<10	<10	8	<10	18
K975201		<20	<0.01	<10	<10	13	<10	27
K975202		<20	<0.01	<10	<10	7	<10	39
K975203		<20	0.01	<10	<10	43	<10	153
K975204		<20	<0.01	<10	<10	59	<10	131
K975205		<20	<0.01	<10	<10	14	<10	16
K975206		<20	<0.01	<10	<10	16	<10	58
K975207		<20	<0.01	<10	<10	1	<10	69
K975208		<20	<0.01	<10	<10	3	<10	96
K975209		<20	<0.01	<10	<10	1	<10	6
K975210		<20	<0.01	<10	<10	22	<10	81
K975211		<20	0.02	<10	<10	14	<10	60
K975212		<20	<0.01	<10	<10	23	<10	13
K975213		<20	<0.01	<10	<10	1	<10	2
K975214		<20	<0.01	<10	<10	1	<10	26
K975215		<20	<0.01	<10	<10	24	<10	10



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Page: 1
Finalized Date: 12- SEP- 2011
Account: F

CERTIFICATE WH11158636

Project: Wolverine- Gary Fin

P.O. No.:

This report is for 29 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - C)
 Finalized Date: 12- SEP- 2011
 Account: F

Project: Wolverine- Gary Fin

CERTIFICATE OF ANALYSIS WH11158636

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K975216		0.44	<0.005	0.2	0.96	25	<10	70	<0.5	<2	8.4	<0.5	45	78	36	7.23
K975217		0.47	<0.005	0.3	0.41	36	<10	30	<0.5	<2	11.2	<0.5	23	78	30	5.92
K975218		0.54	<0.005	0.3	0.90	19	<10	50	<0.5	<2	12.1	<0.5	29	88	39	5.87
K975219		0.71	<0.005	<0.2	0.86	9	<10	50	<0.5	<2	12.3	<0.5	23	61	31	4.63
K975220		0.57	0.006	0.3	0.39	4	<10	90	<0.5	<2	12.2	<0.5	32	16	65	6.95
K975221		0.61	<0.005	<0.2	0.11	16	<10	60	<0.5	<2	10.2	<0.5	13	4	9	4.37
K975222		1.12	<0.005	0.3	0.03	206	<10	90	<0.5	<2	0.40	<0.5	40	384	3	2.65
K975223		0.74	<0.005	0.4	0.03	417	10	30	<0.5	<2	0.32	<0.5	37	446	3	3.70
K975224		0.84	<0.005	<0.2	0.04	23	<10	70	0.8	<2	13.1	<0.5	22	161	1	1.96
K975225		2.47	<0.005	<0.2	0.21	3	110	10	<0.5	<2	0.21	<0.5	76	1620	11	4.26
K975226		2.61	<0.005	<0.2	0.19	2	110	10	<0.5	<2	0.44	<0.5	71	1640	8	3.84
K975227		2.33	<0.005	<0.2	0.25	3	100	10	<0.5	<2	0.22	<0.5	80	1820	4	4.32
K975228		0.63	<0.005	<0.2	0.19	7	80	10	<0.5	<2	0.01	<0.5	85	1815	8	5.07
K975229		1.69	0.037	<0.2	0.69	99	10	80	<0.5	<2	1.11	<0.5	66	981	12	3.56
K975230		1.56	0.238	<0.2	3.75	45	10	80	<0.5	<2	2.61	<0.5	53	890	28	5.22
K975231		2.52	0.358	<0.2	2.44	81	30	110	<0.5	<2	1.38	<0.5	51	698	30	5.13
K975232		0.99	<0.005	0.4	0.17	4	<10	150	<0.5	<2	0.14	<0.5	3	19	4	0.77
K975233		0.95	<0.005	0.2	0.41	27	<10	160	<0.5	<2	0.50	<0.5	6	17	12	1.85
K975234		1.19	<0.005	0.2	0.26	14	<10	170	<0.5	<2	0.37	<0.5	5	14	13	1.37
K975235		0.66	<0.005	0.5	0.27	29	<10	400	<0.5	<2	0.05	<0.5	3	7	4	0.85
K975236		0.99	<0.005	<0.2	0.59	35	<10	160	<0.5	<2	4.12	<0.5	16	487	5	1.88
K975237		0.87	<0.005	<0.2	0.21	4	<10	70	<0.5	<2	3.97	<0.5	31	428	4	2.73
K975238		0.42	0.011	1.3	0.49	<2	<10	180	2.5	<2	0.30	0.7	2	35	48	14.4
K975239		0.82	0.006	1.1	0.41	<2	<10	280	1.3	2	0.06	0.6	2	26	29	4.55
K975240		1.03	0.241	0.8	0.58	55	<10	180	1.1	2	7.6	<0.5	23	57	98	5.88
K975241		1.12	<0.005	0.3	0.29	15	<10	90	0.5	<2	2.16	<0.5	9	49	18	1.97
K975242		0.47	0.059	0.9	0.29	88	<10	20	<0.5	<2	0.04	<0.5	4	56	11	1.18
K975243		0.49	0.278	5.2	0.27	39	<10	30	<0.5	<2	0.03	<0.5	3	132	4	0.55
K975244		0.75	0.016	0.2	0.23	20	<10	140	<0.5	<2	0.28	0.6	8	23	112	2.58



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Page: 2 - B
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Finalized Date: 12- SEP- 2011
Account: F

Project: Wolverine- Gary Fin

CERTIFICATE OF ANALYSIS WH11158636

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
K975216		<10	<1	0.13	10	1.72	1610	1	0.04	148	1030	4	0.72	<2	6	109
K975217		<10	<1	0.06	10	3.78	1640	<1	0.03	79	840	8	0.06	2	5	185
K975218		<10	<1	0.07	10	1.06	1475	1	0.03	85	1340	9	0.18	2	7	173
K975219		<10	<1	0.05	10	2.95	1280	<1	0.06	65	750	2	0.03	<2	6	313
K975220		<10	<1	0.09	20	0.13	1455	1	0.07	97	1310	3	0.01	<2	6	38
K975221		<10	<1	0.06	<10	4.35	2640	1	0.02	15	320	3	0.02	<2	2	224
K975222		<10	<1	0.01	<10	14.25	394	<1	0.02	867	20	<2	0.07	20	4	24
K975223		<10	<1	0.01	<10	15.80	623	<1	0.02	806	100	<2	0.03	45	4	10
K975224		<10	<1	<0.01	<10	13.55	363	<1	0.02	495	10	<2	<0.01	2	2	451
K975225		<10	<1	<0.01	<10	19.50	632	<1	0.01	1720	30	<2	0.01	<2	7	5
K975226		<10	<1	<0.01	<10	18.65	598	<1	0.02	1685	20	<2	0.01	<2	6	8
K975227		<10	<1	<0.01	<10	19.40	669	<1	0.01	1760	20	<2	0.01	<2	7	4
K975228		<10	<1	<0.01	<10	18.95	547	<1	0.01	1840	20	<2	0.01	2	7	3
K975229		<10	<1	0.04	<10	9.80	736	<1	0.02	969	100	<2	0.01	8	9	46
K975230		10	<1	0.05	<10	9.19	884	<1	0.02	583	390	<2	0.01	8	20	101
K975231		<10	<1	0.08	<10	7.35	797	<1	0.02	661	370	2	0.01	15	19	62
K975232		<10	<1	0.06	<10	0.12	174	1	0.01	16	80	47	0.02	<2	<1	10
K975233		<10	<1	0.07	10	0.22	671	<1	0.01	79	260	14	0.01	2	1	45
K975234		<10	<1	0.04	10	0.16	399	1	0.01	29	210	25	0.02	3	1	25
K975235		<10	<1	0.17	10	0.04	239	2	0.02	7	190	44	0.02	<2	<1	8
K975236		<10	<1	0.02	<10	3.15	954	<1	0.02	254	100	7	0.01	4	3	354
K975237		<10	<1	0.03	<10	16.20	599	<1	0.02	727	20	<2	0.01	2	4	342
K975238		<10	<1	0.24	10	0.19	898	4	0.02	17	3070	124	0.34	3	4	35
K975239		<10	<1	0.13	10	0.09	192	3	<0.01	16	570	237	0.63	<2	3	10
K975240		<10	1	0.15	10	2.74	1210	<1	0.02	38	470	3	2.29	3	18	81
K975241		<10	2	0.07	<10	0.70	560	<1	<0.01	21	60	<2	0.04	<2	7	40
K975242		<10	1	0.03	10	0.04	62	<1	<0.01	87	30	5	0.02	149	1	4
K975243		<10	<1	0.04	10	0.03	42	<1	<0.01	30	30	10	0.02	273	1	5
K975244		<10	<1	0.06	<10	0.10	722	<1	<0.01	21	70	<2	0.04	8	7	14



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Page: 2 - C
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Project: Wolverine- Gary Fin

CERTIFICATE OF ANALYSIS WH11158636

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Ti ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
K975216		<20	<0.01	<10	<10	31	<10	39
K975217		<20	<0.01	<10	<10	23	<10	47
K975218		<20	<0.01	<10	<10	37	<10	54
K975219		<20	<0.01	<10	<10	32	<10	35
K975220		<20	<0.01	<10	<10	14	<10	40
K975221		<20	<0.01	<10	<10	7	<10	22
K975222		<20	<0.01	<10	<10	11	<10	6
K975223		<20	<0.01	<10	<10	11	<10	5
K975224		<20	<0.01	<10	<10	4	<10	3
K975225		<20	<0.01	<10	<10	22	<10	18
K975226		<20	<0.01	<10	<10	21	<10	16
K975227		<20	<0.01	<10	<10	24	<10	19
K975228		<20	<0.01	<10	<10	25	<10	20
K975229		<20	0.01	<10	<10	40	<10	15
K975230		<20	0.01	<10	<10	143	<10	47
K975231		<20	<0.01	<10	<10	104	<10	49
K975232		<20	<0.01	<10	<10	2	<10	58
K975233		<20	<0.01	<10	<10	4	<10	52
K975234		<20	<0.01	<10	<10	2	<10	80
K975235		<20	<0.01	<10	<10	1	<10	34
K975236		<20	<0.01	<10	<10	16	<10	30
K975237		<20	<0.01	<10	<10	14	<10	11
K975238		<20	0.01	<10	<10	174	<10	711
K975239		<20	0.01	<10	<10	77	<10	261
K975240		<20	<0.01	<10	<10	95	<10	55
K975241		<20	<0.01	<10	<10	47	<10	20
K975242		<20	<0.01	<10	<10	17	<10	12
K975243		<20	<0.01	<10	<10	13	<10	8
K975244		<20	<0.01	<10	<10	57	<10	132



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CERTIFICATE WH11130441

Project: Wolverine

P.O. No.:

This report is for 29 Rock samples submitted to our lab in Whitehorse, YT, Canada on 10-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 2 (A - C)
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Project: Wolverine- String

CERTIFICATE OF ANALYSIS WH11130441

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
I357229		0.88	0.022	0.2	0.20	18	<10	270	<0.5	<2	0.01	1.5	<1	7	5	0.36
I357230		0.86	0.007	<0.2	0.06	5	<10	50	<0.5	<2	0.05	<0.5	<1	12	2	0.29
I357231		2.18	0.005	<0.2	0.09	26	<10	60	<0.5	<2	0.72	<0.5	5	10	16	1.20
I357232		0.96	0.009	0.3	0.11	77	<10	100	<0.5	<2	0.83	2.4	5	9	14	1.48
I357233		0.56	0.005	0.8	0.28	3	<10	300	<0.5	<2	0.01	<0.5	<1	8	2	0.31
I357234		1.30	0.006	<0.2	0.10	4	<10	140	<0.5	<2	0.01	<0.5	<1	9	1	0.26
I357235		0.22	0.020	0.2	0.63	979	<10	520	<0.5	<2	0.83	1.7	43	8	23	12.30
I357236		0.18	<0.005	<0.2	0.20	15	<10	240	<0.5	<2	3.41	0.5	14	4	11	8.62
I357237		0.86	0.010	0.9	0.29	87	<10	240	<0.5	<2	0.66	1.1	4	15	54	2.37
I357238		0.28	0.073	0.7	0.43	99	<10	580	<0.5	<2	0.39	6.9	7	9	261	2.56
I357239		0.42	0.005	<0.2	0.12	17	<10	60	<0.5	<2	0.03	<0.5	5	18	10	0.84
I357240		0.82	<0.005	0.2	0.60	10	<10	220	<0.5	<2	0.37	2.0	2	22	10	1.14
I357241		0.64	0.343	0.2	0.36	3380	<10	140	<0.5	<2	1.64	<0.5	14	17	14	3.06
I357242		1.22	0.013	<0.2	1.36	1105	<10	430	<0.5	<2	10.0	<0.5	55	111	20	8.99
I357243		0.40	<0.005	0.3	0.05	26	<10	40	<0.5	<2	0.34	1.6	4	8	12	0.55
I357244		0.46	<0.005	<0.2	0.20	73	<10	90	<0.5	<2	15.2	<0.5	5	3	6	4.69
I357245		0.48	0.005	0.2	0.08	11	<10	250	<0.5	<2	0.06	<0.5	1	7	6	0.52
I357246		0.10	<0.005	<0.2	0.38	10	<10	340	<0.5	<2	0.44	<0.5	<1	7	4	1.07
I357247		0.52	<0.005	<0.2	0.92	4	<10	230	<0.5	<2	0.13	1.2	8	7	198	2.93
I357248		1.16	<0.005	<0.2	2.31	4	<10	40	<0.5	2	1.65	<0.5	25	89	95	3.24
I357249		0.86	0.008	<0.2	1.89	116	<10	90	<0.5	<2	5.26	<0.5	28	46	118	6.89
I357250		0.72	0.035	<0.2	0.10	176	<10	30	<0.5	<2	0.07	0.9	3	11	18	0.68
K191551		1.10	<0.005	<0.2	0.29	2	<10	470	<0.5	<2	17.5	<0.5	22	56	3	4.48
K191552		0.86	<0.005	<0.2	0.27	13	<10	160	<0.5	<2	15.3	<0.5	20	13	28	6.05
K191553		0.92	0.006	0.3	0.12	6	<10	150	<0.5	<2	0.16	<0.5	4	6	4	0.41
K191554		0.48	<0.005	0.3	0.29	12	<10	3350	<0.5	<2	0.20	<0.5	2	11	18	1.08
K191555		1.04	<0.005	<0.2	2.70	5	<10	170	<0.5	<2	2.52	<0.5	28	183	73	3.83
K191556		1.04	<0.005	<0.2	0.13	2	<10	450	<0.5	<2	0.04	<0.5	1	9	31	0.34



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Page: 2 - B
Total # Pages: 2 (A - C)
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- String

CERTIFICATE OF ANALYSIS WH11130441

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
I357229		<10	1	0.12	10	0.02	28	<1	0.01	1	520	2	0.01	10	1	17
I357230		<10	<1	0.02	<10	<0.01	29	<1	<0.01	1	340	3	<0.01	2	1	11
I357231		<10	<1	0.02	<10	0.03	957	<1	0.01	13	390	<2	<0.01	<2	1	19
I357232		<10	<1	0.05	<10	0.31	805	4	0.01	40	720	4	0.01	7	1	50
I357233		<10	<1	0.16	10	0.03	27	<1	0.01	1	70	10	0.05	<2	<1	5
I357234		<10	<1	0.07	<10	0.01	24	<1	0.01	1	30	<2	0.03	<2	<1	6
I357235		<10	1	0.17	20	0.16	2820	2	0.01	100	1750	8	<0.01	12	4	34
I357236		<10	<1	0.09	<10	0.85	2350	5	0.04	39	130	7	<0.01	<2	2	79
I357237		<10	<1	0.13	<10	0.02	81	16	0.02	20	5370	7	0.01	13	1	105
I357238		<10	<1	0.20	20	0.05	111	8	0.02	44	3730	14	<0.01	9	2	88
I357239		<10	<1	0.06	<10	0.02	105	3	0.02	16	180	2	<0.01	2	1	5
I357240		<10	<1	0.07	10	0.43	289	<1	<0.01	15	560	12	0.07	2	1	12
I357241		<10	<1	0.04	<10	0.71	809	<1	<0.01	74	770	2	0.03	13	4	80
I357242		<10	<1	0.19	20	2.12	1960	<1	<0.01	259	2600	<2	0.02	9	7	134
I357243		<10	<1	0.01	<10	0.01	243	<1	<0.01	11	1340	6	<0.01	8	1	31
I357244		<10	<1	0.06	10	5.07	1245	<1	0.01	20	270	7	0.01	4	2	509
I357245		<10	<1	0.05	<10	0.01	347	<1	<0.01	4	110	6	0.01	2	<1	25
I357246		<10	<1	0.26	10	0.12	98	<1	<0.01	1	290	8	0.05	<2	<1	19
I357247		<10	<1	0.40	20	0.26	407	<1	<0.01	32	1070	<2	0.01	2	2	48
I357248		<10	<1	0.05	<10	1.35	519	<1	0.04	38	390	<2	0.05	2	2	14
I357249		<10	<1	0.07	10	3.60	1625	<1	0.02	43	1000	5	0.03	3	22	306
I357250		<10	<1	0.02	<10	0.02	150	<1	<0.01	4	40	<2	0.02	5	<1	4
K191551		<10	<1	0.21	10	2.66	982	<1	0.01	84	1420	2	0.01	2	6	605
K191552		<10	<1	0.09	10	3.97	1030	<1	0.01	41	480	<2	0.05	4	5	492
K191553		<10	<1	0.07	<10	0.03	406	<1	<0.01	3	50	5	0.01	2	<1	8
K191554		<10	<1	0.04	10	0.09	118	<1	0.01	8	190	2	0.06	<2	1	24
K191555		<10	<1	0.03	<10	2.25	797	<1	0.04	57	430	<2	0.01	4	15	36
K191556		<10	<1	0.07	<10	0.01	76	<1	<0.01	10	70	<2	0.05	<2	<1	11



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Page: 2 - C
 Total # Pages: 2 (A - C)
 Finalized Date: 6- AUG- 2011
 Account: F

Project: Wolverine- String

CERTIFICATE OF ANALYSIS WH11130441

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
I357229		<20	<0.01	<10	<10	9	<10	9
I357230		<20	<0.01	<10	<10	2	<10	2
I357231		<20	<0.01	<10	<10	1	<10	29
I357232		<20	<0.01	<10	<10	11	<10	653
I357233		<20	<0.01	<10	<10	14	<10	9
I357234		<20	<0.01	<10	<10	3	<10	5
I357235		<20	<0.01	<10	<10	14	<10	657
I357236		<20	<0.01	<10	<10	6	<10	73
I357237		<20	<0.01	<10	<10	107	<10	263
I357238		<20	<0.01	<10	<10	25	<10	218
I357239		<20	<0.01	<10	<10	8	<10	22
I357240		<20	<0.01	<10	<10	30	<10	70
I357241		<20	<0.01	<10	<10	7	<10	29
I357242		<20	0.01	<10	<10	26	<10	114
I357243		<20	<0.01	<10	<10	5	<10	110
I357244		<20	<0.01	<10	<10	4	<10	105
I357245		<20	<0.01	<10	<10	5	<10	23
I357246		<20	<0.01	<10	<10	8	<10	8
I357247		<20	0.01	<10	<10	9	<10	252
I357248		<20	0.34	<10	<10	63	<10	59
I357249		<20	0.01	<10	<10	111	<10	80
I357250		<20	<0.01	<10	<10	2	<10	145
K191551		<20	<0.01	<10	<10	24	<10	17
K191552		<20	<0.01	<10	<10	49	<10	93
K191553		<20	<0.01	<10	<10	6	<10	13
K191554		<20	0.01	<10	<10	7	<10	26
K191555		<20	0.37	<10	<10	138	<10	72
K191556		<20	<0.01	<10	<10	3	<10	14



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Page: 1
Finalized Date: 6- AUG- 2011
Account: F

CERTIFICATE WH11123807

Project: Wolverine- Has/Vivi

P.O. No.:

This report is for 155 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 5 (A - C)
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC147061		0.49	0.003	<0.2	2.13	<2	<10	90	0.6	<2	0.13	<0.5	13	159	28	3.05
CC147062		0.30	0.004	<0.2	1.41	7	<10	60	<0.5	<2	0.09	<0.5	15	293	16	2.58
CC147063		0.28	0.004	<0.2	1.85	9	<10	140	0.6	<2	0.18	<0.5	18	243	35	3.10
CC147064		0.30	0.005	<0.2	2.29	7	<10	70	0.6	<2	0.15	<0.5	10	102	30	3.57
CC147065		0.32	0.004	0.2	2.26	8	<10	120	<0.5	<2	0.18	<0.5	8	115	28	4.00
CC147066		0.23	0.003	<0.2	1.77	4	<10	80	<0.5	<2	0.14	<0.5	6	77	12	2.93
CC147067		0.33	0.002	<0.2	2.40	8	<10	80	<0.5	<2	0.18	<0.5	11	129	33	2.98
CC147068		0.48	0.004	<0.2	2.69	24	<10	260	0.6	<2	0.42	<0.5	16	147	60	3.32
CC147069		0.30	0.008	0.3	3.79	29	<10	270	1.1	<2	0.39	<0.5	15	128	89	4.84
CC147070		0.26	0.002	<0.2	3.86	26	<10	550	0.7	<2	0.41	<0.5	22	120	50	4.68
CC147071		0.26	0.849	0.3	3.00	56	<10	140	0.7	<2	0.19	<0.5	10	126	38	4.03
CC147072		0.30	0.004	<0.2	2.04	11	<10	110	<0.5	<2	0.18	<0.5	9	120	28	3.41
CC147073		0.40	0.002	<0.2	2.28	31	<10	190	0.7	<2	0.37	<0.5	16	138	34	3.46
CC147074		0.31	0.004	<0.2	2.39	30	<10	190	0.7	<2	0.34	<0.5	13	149	34	3.77
CC147075		0.31	0.004	<0.2	2.77	34	<10	140	1.2	<2	0.12	<0.5	14	138	28	4.29
CC147076		0.35	0.002	<0.2	3.88	51	<10	170	3.9	<2	0.11	<0.5	24	276	47	5.28
CC147077		0.31	0.237	<0.2	2.62	51	<10	150	2.1	<2	0.10	<0.5	18	195	35	4.50
CC147078		0.21	0.041	<0.2	0.85	28	<10	90	0.5	<2	0.08	<0.5	55	434	27	5.51
CC147079		0.34	0.016	<0.2	2.10	20	<10	130	1.2	<2	0.19	<0.5	20	149	45	3.38
CC147080		0.35	0.002	<0.2	2.11	17	<10	150	0.9	<2	0.71	<0.5	16	114	27	3.73
CC147081		0.24	0.003	<0.2	1.63	6	<10	100	0.7	<2	0.18	<0.5	10	102	28	2.21
CC147082		0.53	0.007	<0.2	2.00	9	<10	230	0.9	<2	0.40	<0.5	12	104	41	2.54
CC147083		0.18	0.002	0.4	2.51	8	<10	90	0.7	<2	0.10	<0.5	7	71	23	4.39
CC147084		0.28	0.002	<0.2	2.02	5	<10	80	0.9	<2	0.15	<0.5	8	95	25	3.88
CC147085		0.34	0.004	0.2	2.41	11	<10	120	0.9	<2	0.41	<0.5	13	136	37	3.16
CC147086		0.29	0.003	<0.2	2.42	5	<10	150	0.8	<2	0.61	<0.5	17	209	47	2.92
CC147087		0.25	0.002	<0.2	2.55	6	<10	230	0.8	<2	0.49	<0.5	15	153	39	3.38
CC147088		0.31	0.002	<0.2	2.94	4	<10	130	0.9	<2	0.20	<0.5	13	153	42	3.08
CC147089		0.27	0.006	<0.2	3.04	11	<10	150	<0.5	<2	0.80	<0.5	20	296	95	3.31
CC147090		0.34	0.013	<0.2	3.29	4	<10	50	<0.5	<2	0.12	<0.5	9	146	33	4.35
CC147091		0.24	0.003	<0.2	4.43	3	<10	180	0.9	<2	0.33	<0.5	19	173	60	2.81
CC147092		0.17	0.006	<0.2	2.93	2	<10	90	1.0	<2	0.16	<0.5	11	146	46	3.96
CC147093		0.23	0.003	<0.2	5.53	<2	<10	140	2.1	<2	0.29	<0.5	21	484	33	4.91
CC147094		0.31	0.003	<0.2	4.88	7	<10	160	0.9	<2	0.33	<0.5	15	199	53	3.48
CC147095		0.25	0.003	<0.2	2.92	7	<10	140	0.7	<2	0.19	<0.5	11	97	39	4.06
CC147101		0.31	0.004	<0.2	1.75	<2	<10	20	<0.5	<2	0.05	<0.5	18	254	185	2.97
CC147102		0.40	0.003	<0.2	1.73	<2	<10	50	<0.5	<2	0.05	<0.5	11	197	96	2.70
CC147103		0.28	0.001	0.2	1.43	<2	<10	30	<0.5	<2	0.06	<0.5	4	75	104	0.88
CC147104		0.29	0.001	0.2	0.73	<2	<10	30	<0.5	<2	0.03	<0.5	4	59	27	0.78
CC147105		0.40	0.001	0.2	2.16	<2	<10	100	<0.5	<2	0.06	<0.5	10	179	59	2.07



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Page: 2 - B
Total # Pages: 5 (A - C)
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147061		10	<1	0.21	10	0.76	281	<1	0.01	115	550	8	<0.01	<2	4	2
CC147062		10	<1	0.05	10	1.05	183	<1	0.01	215	270	6	<0.01	2	3	3
CC147063		10	1	0.13	10	0.93	325	<1	0.02	200	450	7	0.01	<2	5	6
CC147064		10	<1	0.13	10	0.81	317	<1	0.02	51	520	12	0.03	2	4	6
CC147065		10	<1	0.29	10	0.77	315	<1	0.03	39	980	13	0.03	<2	6	6
CC147066		10	<1	0.06	20	0.52	200	<1	0.01	28	300	13	0.01	<2	3	7
CC147067		10	<1	0.15	10	0.76	263	<1	0.02	63	580	8	0.01	<2	4	5
CC147068		10	<1	0.31	10	1.12	433	<1	0.02	102	730	7	<0.01	<2	7	14
CC147069		10	1	0.50	20	1.34	981	<1	0.02	91	1160	9	0.04	<2	8	13
CC147070		20	1	0.89	20	2.07	495	<1	0.02	82	1580	8	0.01	3	17	11
CC147071		10	1	0.28	10	0.91	414	<1	0.01	56	860	12	0.02	2	5	4
CC147072		10	<1	0.28	10	0.72	303	<1	0.02	51	1770	10	0.01	<2	6	4
CC147073		10	<1	0.33	10	1.19	476	<1	0.03	80	1080	8	0.05	<2	4	13
CC147074		10	<1	0.22	10	1.09	369	<1	0.03	80	620	9	0.01	<2	6	11
CC147075		10	<1	0.24	10	1.16	410	<1	0.02	69	520	14	0.01	<2	8	7
CC147076		10	<1	0.62	10	2.53	564	<1	0.02	148	620	20	0.06	2	11	7
CC147077		10	1	0.24	10	1.54	572	<1	0.02	119	410	17	0.01	2	8	8
CC147078		<10	<1	0.03	10	3.50	1520	<1	0.01	504	260	19	<0.01	2	9	3
CC147079		10	1	0.24	10	1.01	410	<1	0.01	115	620	19	<0.01	<2	6	8
CC147080		10	<1	0.37	10	1.02	461	<1	0.01	59	690	17	<0.01	<2	7	19
CC147081		10	<1	0.13	10	0.59	239	<1	0.02	53	450	17	<0.01	<2	4	6
CC147082		10	<1	0.21	10	0.80	397	<1	0.03	49	850	16	<0.01	<2	6	12
CC147083		10	<1	0.27	10	0.62	270	<1	0.01	27	790	16	0.02	<2	5	3
CC147084		10	<1	0.26	10	0.73	280	<1	0.02	37	670	17	0.02	<2	5	5
CC147085		10	<1	0.22	10	1.01	293	<1	0.02	59	490	14	0.02	<2	6	11
CC147086		10	1	0.36	10	1.39	372	<1	0.04	87	370	17	<0.01	<2	7	18
CC147087		10	1	0.24	10	1.06	467	<1	0.02	67	440	15	0.01	2	6	14
CC147088		10	<1	0.20	10	0.95	267	<1	0.02	66	560	22	0.02	<2	6	4
CC147089		10	<1	0.19	10	1.77	351	<1	0.08	102	590	10	0.01	<2	4	36
CC147090		10	<1	0.04	10	0.65	325	<1	0.01	39	700	15	0.02	<2	5	5
CC147091		10	1	0.09	10	1.16	306	<1	0.03	87	830	12	0.01	<2	7	13
CC147092		10	<1	0.11	10	0.91	296	<1	0.02	49	600	13	0.05	2	5	7
CC147093		20	1	0.44	10	2.36	356	<1	0.02	107	880	12	0.04	<2	9	10
CC147094		10	<1	0.30	10	1.11	357	<1	0.03	69	1300	8	0.04	<2	7	11
CC147095		10	<1	0.23	10	0.84	384	<1	0.01	42	910	14	0.01	<2	7	7
CC147101		<10	<1	0.01	<10	1.75	212	<1	<0.01	243	170	4	<0.01	<2	4	1
CC147102		10	<1	0.03	10	1.03	168	<1	0.01	106	310	6	0.01	<2	3	2
CC147103		<10	<1	0.02	<10	0.34	45	<1	0.02	71	730	4	0.03	<2	1	3
CC147104		<10	<1	0.02	<10	0.29	62	<1	0.02	51	350	<2	0.02	<2	1	2
CC147105		10	<1	0.04	10	0.97	116	<1	0.02	125	540	5	0.02	<2	2	5



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Page: 2 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 6- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147061		<20	0.13	<10	<10	62	<10	64
CC147062		<20	0.08	<10	<10	51	<10	42
CC147063		<20	0.13	<10	<10	65	<10	53
CC147064		<20	0.11	<10	<10	74	<10	65
CC147065		<20	0.25	<10	<10	104	<10	61
CC147066		<20	0.10	<10	<10	76	<10	34
CC147067		<20	0.14	<10	<10	74	<10	56
CC147068		<20	0.18	<10	<10	84	<10	59
CC147069		<20	0.20	<10	<10	131	<10	95
CC147070		<20	0.30	<10	<10	253	<10	93
CC147071		<20	0.16	<10	<10	117	<10	78
CC147072		<20	0.21	<10	<10	98	<10	63
CC147073		<20	0.14	<10	<10	88	<10	106
CC147074		<20	0.18	<10	<10	100	<10	86
CC147075		<20	0.22	<10	<10	115	<10	140
CC147076		<20	0.30	<10	<10	150	10	88
CC147077		<20	0.18	<10	<10	99	10	134
CC147078		<20	0.04	<10	<10	33	<10	38
CC147079		<20	0.15	<10	<10	67	10	59
CC147080		<20	0.18	<10	<10	84	10	103
CC147081		<20	0.13	<10	<10	52	10	36
CC147082		<20	0.15	<10	<10	65	10	39
CC147083		<20	0.21	<10	<10	84	10	71
CC147084		<20	0.23	<10	<10	98	10	72
CC147085		<20	0.17	<10	<10	82	<10	57
CC147086		<20	0.19	<10	<10	82	<10	44
CC147087		<20	0.17	<10	<10	83	<10	60
CC147088		<20	0.15	<10	<10	74	20	46
CC147089		<20	0.24	<10	<10	116	<10	50
CC147090		<20	0.12	<10	<10	76	10	47
CC147091		<20	0.14	<10	<10	75	10	40
CC147092		<20	0.15	<10	<10	101	10	45
CC147093		<20	0.32	<10	<10	173	<10	55
CC147094		<20	0.20	<10	<10	93	<10	49
CC147095		<20	0.20	<10	<10	102	<10	62
CC147101		<20	0.03	<10	<10	53	<10	29
CC147102		<20	0.03	<10	<10	60	<10	26
CC147103		<20	0.02	<10	<10	16	<10	12
CC147104		<20	0.02	<10	<10	17	<10	11
CC147105		<20	0.02	<10	<10	44	<10	35



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Page: 3 - A
Total # Pages: 5 (A - C)
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC147106		0.22	0.001	0.2	0.71	<2	<10	30	<0.5	<2	0.03	<0.5	3	56	26	0.67
CC147107		0.32	0.001	<0.2	1.37	<2	<10	90	<0.5	<2	0.10	<0.5	20	235	35	1.97
CC147108		0.28	<0.001	<0.2	1.61	<2	<10	130	<0.5	<2	0.09	<0.5	12	174	31	2.00
CC147109		0.34	0.001	<0.2	1.66	<2	<10	100	<0.5	<2	0.13	<0.5	14	266	39	2.26
CC147110		0.41	0.012	<0.2	1.22	<2	<10	90	<0.5	<2	0.11	<0.5	14	184	21	1.73
CC147111		0.41	0.043	<0.2	1.76	<2	<10	70	<0.5	<2	0.09	<0.5	14	300	35	1.68
CC147112		0.26	0.001	<0.2	0.89	2	<10	30	<0.5	<2	0.03	<0.5	4	71	18	0.88
CC147113		0.25	0.008	<0.2	2.26	15	<10	80	<0.5	<2	0.08	<0.5	14	272	31	4.43
CC147114		0.20	0.061	<0.2	0.50	<2	<10	10	<0.5	<2	0.02	<0.5	2	42	5	0.73
CC147115		0.22	0.002	<0.2	0.98	2	<10	40	<0.5	<2	0.05	<0.5	5	113	16	1.21
CC147116		0.37	0.089	<0.2	1.53	<2	<10	50	<0.5	<2	0.06	<0.5	11	147	37	1.92
CC147117		0.29	0.044	<0.2	1.82	5	<10	50	<0.5	<2	0.08	<0.5	11	174	42	2.52
CC147118		0.30	0.006	<0.2	1.98	4	<10	50	<0.5	<2	0.08	<0.5	14	200	50	2.76
CC147119		0.50	0.010	<0.2	1.76	<2	<10	80	<0.5	<2	0.08	<0.5	11	119	29	2.15
CC147120		0.38	0.004	<0.2	1.75	3	<10	50	<0.5	<2	0.07	<0.5	10	127	31	2.07
CC147121		0.42	0.003	<0.2	2.20	3	<10	80	<0.5	<2	0.09	<0.5	11	139	41	2.17
CC147122		0.24	0.020	<0.2	1.52	<2	<10	50	<0.5	<2	0.07	<0.5	8	144	29	1.65
CC147123		0.27	0.068	<0.2	1.26	6	<10	110	<0.5	<2	0.14	<0.5	13	154	33	2.41
CC147124		0.44	0.002	<0.2	1.78	2	<10	60	<0.5	<2	0.07	<0.5	9	114	19	2.20
CC147125		0.44	0.045	<0.2	1.86	2	<10	60	<0.5	<2	0.09	<0.5	9	149	19	1.97
CC147126		0.51	0.018	<0.2	1.69	<2	<10	100	<0.5	<2	0.12	<0.5	12	176	25	2.18
CC147127		0.44	0.005	<0.2	1.67	<2	<10	50	<0.5	<2	0.06	<0.5	6	128	15	1.81
CC147128		0.36	0.005	<0.2	1.48	<2	<10	70	<0.5	<2	0.11	<0.5	12	163	26	2.06
CC147129		0.31	0.003	<0.2	1.88	6	<10	90	<0.5	<2	0.12	<0.5	10	123	23	2.19
CC147130		0.43	0.009	<0.2	1.62	5	<10	120	<0.5	<2	0.14	<0.5	23	204	31	2.50
CC147131		0.31	0.015	<0.2	1.15	27	<10	110	0.5	<2	0.08	0.5	48	607	25	5.93
CC147132		0.18	0.069	<0.2	0.89	20	<10	80	<0.5	<2	0.06	<0.5	67	925	17	6.19
CC147133		0.27	0.003	<0.2	0.88	24	10	80	<0.5	<2	0.05	<0.5	88	1195	16	7.13
CC147134		0.22	0.002	<0.2	0.84	7	<10	110	<0.5	<2	0.06	<0.5	25	441	8	3.17
CC147135		0.35	0.006	<0.2	0.97	7	<10	70	<0.5	<2	0.09	<0.5	22	390	12	2.91
CC147136		0.35	0.002	<0.2	0.96	4	<10	80	<0.5	<2	0.08	<0.5	29	493	12	3.26
CC147137		0.22	0.004	<0.2	0.91	8	<10	80	<0.5	<2	0.05	<0.5	51	831	10	4.85
CC147138		0.20	0.013	<0.2	0.93	8	<10	100	<0.5	2	0.05	<0.5	31	662	7	4.03
CC147139		0.22	0.039	<0.2	0.76	8	<10	90	<0.5	<2	0.04	<0.5	33	634	6	3.75
CC147140		0.44	0.037	<0.2	1.01	6	<10	80	<0.5	<2	0.05	<0.5	26	541	9	3.70
CC147141		0.35	0.001	<0.2	0.83	3	<10	70	<0.5	<2	0.06	<0.5	23	584	8	3.12
CC147142		0.29	0.002	<0.2	0.77	5	<10	70	<0.5	<2	0.07	<0.5	29	604	10	3.23
CC147143		0.26	0.003	<0.2	1.36	8	<10	170	<0.5	<2	0.09	<0.5	29	453	13	3.88
CC147144		0.22	0.002	<0.2	0.94	5	<10	80	<0.5	<2	0.05	<0.5	33	512	8	3.91
CC147145		0.14	0.002	<0.2	0.62	6	<10	70	<0.5	<2	0.03	<0.5	40	817	6	4.49



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Page: 3 - B
 Total # Pages: 5 (A - C)
 Finalized Date: 6- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147106		<10	<1	0.03	<10	0.25	48	<1	0.03	45	380	<2	0.02	<2	1	2
CC147107		<10	<1	0.02	10	1.28	362	<1	0.01	166	300	5	<0.01	<2	3	6
CC147108		10	<1	0.03	10	0.84	166	<1	0.02	168	590	4	0.02	<2	2	6
CC147109		<10	<1	0.02	10	1.36	210	<1	0.01	218	470	7	<0.01	<2	3	6
CC147110		<10	<1	0.02	10	0.80	183	<1	0.01	115	280	5	<0.01	<2	2	6
CC147111		<10	<1	0.01	10	1.43	135	<1	<0.01	140	150	7	<0.01	<2	4	3
CC147112		<10	<1	0.02	<10	0.25	52	<1	0.02	57	370	4	0.01	<2	1	2
CC147113		10	1	0.03	10	0.71	442	<1	<0.01	130	980	9	0.04	2	3	4
CC147114		<10	<1	0.01	<10	0.17	55	<1	<0.01	18	130	2	<0.01	<2	<1	<1
CC147115		10	<1	0.02	10	0.40	83	<1	0.01	51	480	5	0.02	<2	<1	2
CC147116		10	1	0.02	10	0.77	203	<1	0.01	103	330	7	0.01	2	1	2
CC147117		10	<1	0.03	10	0.86	203	<1	0.01	125	290	6	<0.01	<2	3	4
CC147118		10	<1	0.02	10	1.12	245	<1	0.01	148	280	7	<0.01	<2	3	3
CC147119		10	<1	0.03	10	0.68	210	<1	<0.01	80	330	7	<0.01	<2	3	4
CC147120		10	<1	0.02	10	0.75	173	<1	<0.01	80	270	4	<0.01	<2	2	2
CC147121		10	<1	0.03	10	0.86	173	<1	0.01	93	360	6	<0.01	<2	3	4
CC147122		10	<1	0.02	10	0.72	131	<1	0.01	89	240	5	<0.01	<2	2	3
CC147123		<10	<1	0.03	20	0.81	294	<1	0.01	120	200	7	<0.01	<2	3	9
CC147124		10	<1	0.03	10	0.54	181	<1	0.01	72	390	8	<0.01	<2	2	4
CC147125		10	<1	0.03	10	0.64	157	<1	0.01	91	500	7	<0.01	<2	2	4
CC147126		10	<1	0.03	10	0.89	195	<1	0.01	122	310	7	<0.01	<2	3	6
CC147127		10	<1	0.02	10	0.44	123	<1	0.01	62	550	6	0.02	<2	1	3
CC147128		10	<1	0.02	10	0.91	212	<1	0.01	127	260	5	<0.01	<2	3	4
CC147129		10	<1	0.03	10	0.78	158	<1	0.01	79	420	9	0.01	<2	2	8
CC147130		<10	<1	0.03	10	0.95	407	1	0.01	167	350	6	0.01	<2	4	10
CC147131		<10	1	0.04	10	3.06	1165	<1	0.02	665	560	6	0.02	2	8	8
CC147132		<10	<1	0.03	10	3.60	1040	1	0.01	864	600	6	0.02	<2	4	6
CC147133		<10	<1	0.03	<10	3.70	1450	1	0.01	935	490	6	0.02	<2	4	5
CC147134		<10	1	0.05	10	1.23	758	1	0.01	226	460	8	0.02	<2	2	8
CC147135		<10	<1	0.03	10	1.68	294	<1	<0.01	375	230	5	<0.01	<2	2	9
CC147136		<10	<1	0.03	10	1.86	378	1	0.01	439	240	5	<0.01	<2	2	8
CC147137		<10	<1	0.02	10	3.83	582	1	0.01	651	210	5	0.01	<2	3	7
CC147138		<10	<1	0.03	10	3.00	407	1	0.01	433	170	5	0.01	<2	2	7
CC147139		<10	1	0.02	10	3.04	425	<1	0.01	487	190	5	0.01	<2	2	5
CC147140		<10	1	0.03	10	2.03	304	<1	0.01	398	240	4	0.01	<2	2	8
CC147141		<10	<1	0.02	10	2.11	260	<1	0.01	419	210	4	0.01	<2	2	7
CC147142		<10	1	0.03	10	2.56	368	<1	0.02	539	260	4	0.01	2	3	8
CC147143		<10	1	0.05	10	1.90	552	<1	0.01	461	600	8	0.03	<2	3	10
CC147144		<10	1	0.04	10	2.75	496	1	0.01	463	280	7	0.01	<2	2	9
CC147145		<10	<1	0.02	10	3.01	703	1	0.02	565	360	5	0.02	<2	2	5



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Page: 3 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 6- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147106		<20	0.02	<10	<10	13	<10	10
CC147107		<20	0.03	<10	<10	37	<10	40
CC147108		<20	0.02	<10	<10	38	<10	35
CC147109		<20	0.03	<10	<10	41	<10	51
CC147110		<20	0.03	<10	<10	34	<10	36
CC147111		<20	0.03	<10	<10	49	<10	35
CC147112		<20	0.02	<10	<10	20	<10	8
CC147113		<20	0.04	<10	<10	92	<10	52
CC147114		<20	0.01	<10	<10	27	<10	8
CC147115		<20	0.01	<10	<10	34	<10	22
CC147116		<20	0.03	<10	<10	40	<10	33
CC147117		<20	0.04	<10	<10	50	<10	42
CC147118		<20	0.04	<10	<10	50	<10	45
CC147119		<20	0.04	<10	<10	46	<10	41
CC147120		<20	0.04	<10	<10	43	<10	33
CC147121		<20	0.04	<10	<10	45	<10	38
CC147122		<20	0.03	<10	<10	37	<10	27
CC147123		<20	0.05	<10	<10	43	<10	44
CC147124		<20	0.04	<10	<10	41	<10	43
CC147125		<20	0.03	<10	<10	41	<10	39
CC147126		<20	0.04	<10	<10	44	<10	41
CC147127		<20	0.02	<10	<10	38	<10	28
CC147128		<20	0.04	<10	<10	42	<10	36
CC147129		<20	0.04	<10	<10	49	<10	45
CC147130		<20	0.04	<10	<10	47	<10	51
CC147131		<20	0.04	<10	<10	48	<10	40
CC147132		<20	0.03	<10	<10	50	<10	65
CC147133		<20	0.03	<10	<10	51	10	71
CC147134		<20	0.05	<10	<10	52	<10	49
CC147135		<20	0.04	<10	<10	32	<10	46
CC147136		<20	0.04	<10	<10	36	<10	41
CC147137		<20	0.04	<10	<10	45	<10	47
CC147138		<20	0.05	<10	<10	46	<10	42
CC147139		<20	0.04	<10	<10	40	<10	46
CC147140		<20	0.04	<10	<10	39	<10	41
CC147141		<20	0.03	<10	<10	33	<10	34
CC147142		<20	0.03	<10	<10	32	<10	41
CC147143		<20	0.03	<10	<10	45	<10	62
CC147144		<20	0.05	<10	<10	49	<10	47
CC147145		<20	0.04	<10	<10	44	<10	49



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Page: 4 - A
Total # Pages: 5 (A - C)
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC147146		0.29	0.005	<0.2	1.14	11	<10	80	<0.5	<2	0.06	<0.5	64	563	17	5.13
CC147147		0.22	0.001	<0.2	0.61	8	<10	70	<0.5	<2	0.03	<0.5	20	615	7	3.56
CC147148		0.17	0.001	<0.2	0.71	7	<10	100	<0.5	<2	0.03	<0.5	71	1070	9	5.72
CC147149		0.20	0.002	<0.2	0.58	6	<10	70	<0.5	<2	0.04	<0.5	61	1010	7	5.95
CC147150		0.24	<0.001	<0.2	0.37	<2	<10	20	<0.5	<2	0.09	<0.5	1	23	3	0.39
CC147151		0.31	0.009	<0.2	2.79	4	<10	30	<0.5	2	0.05	<0.5	24	316	203	4.76
CC147152		0.25	0.012	<0.2	4.10	2	<10	180	<0.5	<2	0.26	<0.5	19	339	715	4.12
CC147153		0.14	0.002	<0.2	0.55	<2	<10	30	<0.5	<2	0.05	<0.5	2	46	201	0.42
CC147154		0.24	0.003	<0.2	3.24	2	<10	110	<0.5	<2	0.05	<0.5	8	252	180	2.66
CC147155		0.17	0.002	<0.2	1.96	4	<10	130	<0.5	<2	0.07	<0.5	9	155	107	1.91
CC147156		0.33	0.002	<0.2	1.07	<2	<10	30	<0.5	<2	0.03	<0.5	4	82	24	0.76
CC147157		0.35	0.001	<0.2	1.56	2	<10	60	<0.5	<2	0.04	<0.5	6	119	19	1.51
CC147158		0.17	0.002	<0.2	1.34	4	<10	50	<0.5	<2	0.09	<0.5	13	269	36	2.16
CC147159		0.41	0.005	<0.2	1.27	6	<10	90	<0.5	<2	0.11	<0.5	22	272	31	2.54
CC147160		0.50	0.005	<0.2	1.52	9	<10	180	<0.5	<2	0.16	<0.5	28	268	37	2.91
CC147161		0.36	0.001	<0.2	1.30	2	<10	150	<0.5	<2	0.12	<0.5	8	149	19	1.40
CC147162		0.25	0.002	0.3	2.00	7	<10	200	<0.5	<2	0.10	<0.5	32	207	21	2.32
CC147163		0.31	0.001	0.2	2.38	6	<10	130	<0.5	<2	0.08	<0.5	8	148	24	1.75
CC147164		0.19	0.007	0.4	2.64	4	<10	170	<0.5	<2	0.08	<0.5	7	209	25	1.66
CC147165		0.45	0.002	0.2	1.46	3	<10	70	<0.5	<2	0.07	<0.5	9	120	16	1.75
CC147166		0.39	0.002	<0.2	2.11	5	<10	80	<0.5	<2	0.12	<0.5	16	182	34	2.88
CC147167		0.30	0.003	<0.2	1.53	<2	<10	60	<0.5	<2	0.08	<0.5	13	185	26	2.55
CC147168		0.48	0.001	<0.2	1.92	4	<10	70	<0.5	<2	0.07	<0.5	9	80	18	2.63
CC147169		0.18	0.003	0.2	1.36	<2	<10	70	<0.5	<2	0.06	<0.5	5	73	12	1.25
CC147170		0.46	0.002	<0.2	1.89	3	<10	80	<0.5	<2	0.08	<0.5	10	116	25	2.27
CC147171		0.30	0.002	<0.2	1.31	<2	<10	60	<0.5	<2	0.05	<0.5	4	66	11	1.17
CC147172		0.43	0.005	<0.2	1.70	6	<10	60	<0.5	<2	0.07	<0.5	8	113	21	2.07
CC147173		0.38	0.003	<0.2	1.68	5	<10	100	<0.5	<2	0.07	<0.5	13	111	27	2.27
CC147174		0.38	0.004	<0.2	1.83	<2	<10	90	<0.5	<2	0.09	<0.5	12	116	28	2.36
CC147175		0.33	0.005	<0.2	1.48	5	<10	90	<0.5	<2	0.08	<0.5	14	137	18	2.51
CC147176		0.36	0.003	<0.2	1.24	8	<10	180	<0.5	<2	0.14	<0.5	20	169	18	2.74
CC147177		0.35	0.003	<0.2	0.99	4	<10	100	<0.5	<2	0.09	<0.5	21	263	14	2.51
CC147178		0.35	0.001	<0.2	1.26	6	<10	100	<0.5	<2	0.06	<0.5	16	233	7	2.59
CC147179		0.37	0.002	<0.2	0.94	8	<10	90	<0.5	<2	0.09	<0.5	30	377	11	3.02
CC147180		0.25	0.004	<0.2	0.55	<2	<10	40	<0.5	<2	0.03	<0.5	7	152	5	1.15
CC147181		0.16	0.216	<0.2	0.98	19	<10	100	<0.5	<2	0.05	<0.5	52	737	13	5.65
CC147182		0.34	0.003	<0.2	1.26	9	<10	90	<0.5	<2	0.05	<0.5	39	587	15	4.68
CC147183		0.37	0.655	<0.2	0.95	9	<10	70	<0.5	<2	0.10	<0.5	31	792	16	4.33
CC147184		0.21	0.009	<0.2	0.50	5	<10	70	<0.5	<2	0.05	<0.5	32	575	9	3.52
CC147185		0.18	0.005	<0.2	1.05	7	<10	90	<0.5	<2	0.05	<0.5	20	332	7	2.93



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Page: 4 - B
Total # Pages: 5 (A - C)
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147146		<10	<1	0.04	10	4.96	794	1	0.01	767	560	7	0.01	<2	3	8
CC147147		<10	<1	0.03	10	1.27	271	1	<0.01	347	290	4	0.01	<2	1	6
CC147148		<10	1	0.02	10	5.74	1050	1	0.02	921	340	4	0.01	<2	3	5
CC147149		<10	<1	0.02	10	5.83	788	1	0.01	864	280	3	0.01	<2	3	5
CC147150		<10	<1	0.02	<10	0.12	23	<1	0.02	40	420	<2	0.01	<2	<1	8
CC147151		<10	<1	0.01	<10	2.62	269	1	0.01	213	210	<2	0.01	<2	6	4
CC147152		10	1	0.05	10	2.15	252	1	0.03	305	940	4	0.09	<2	9	18
CC147153		<10	<1	0.03	<10	0.20	28	<1	0.02	20	490	<2	0.04	<2	<1	6
CC147154		10	1	0.05	10	0.97	95	1	0.01	108	840	8	0.04	<2	1	8
CC147155		10	1	0.05	10	0.76	149	1	0.01	95	680	4	0.04	<2	1	10
CC147156		<10	<1	0.02	<10	0.43	53	<1	<0.01	35	310	3	0.01	<2	1	4
CC147157		10	<1	0.02	10	0.62	111	1	0.01	51	210	5	0.01	<2	1	6
CC147158		<10	1	0.02	10	1.22	194	<1	0.01	176	270	5	0.01	<2	2	7
CC147159		<10	1	0.03	10	1.44	358	<1	0.02	278	270	4	0.01	<2	3	9
CC147160		<10	1	0.04	10	1.34	486	1	0.01	338	410	6	<0.01	<2	4	14
CC147161		<10	<1	0.03	10	0.72	148	<1	0.02	133	570	4	0.02	<2	1	10
CC147162		10	<1	0.04	10	0.62	2350	1	0.02	146	1780	3	0.11	<2	1	11
CC147163		10	1	0.04	10	0.55	124	1	0.02	121	1010	6	0.05	<2	1	8
CC147164		10	1	0.04	10	0.53	94	<1	0.01	120	1230	6	0.06	<2	1	10
CC147165		10	<1	0.03	10	0.51	138	1	0.01	75	450	7	0.02	2	1	7
CC147166		10	1	0.04	10	0.96	225	1	0.01	162	570	10	0.02	<2	3	8
CC147167		10	<1	0.03	10	0.94	189	<1	0.01	163	300	5	0.01	<2	2	6
CC147168		10	<1	0.04	10	0.55	189	1	0.01	50	350	12	0.01	2	2	7
CC147169		10	1	0.02	10	0.38	84	<1	0.01	45	440	8	0.02	<2	1	7
CC147170		10	1	0.03	10	0.69	186	<1	0.01	87	380	7	0.01	<2	3	7
CC147171		10	<1	0.03	10	0.33	83	<1	0.01	38	400	7	0.01	<2	<1	6
CC147172		10	1	0.02	10	0.59	144	<1	0.01	74	340	6	0.01	<2	2	7
CC147173		<10	1	0.02	10	0.76	252	<1	0.01	94	230	9	0.01	<2	3	8
CC147174		<10	<1	0.03	10	0.73	212	<1	0.01	85	360	6	0.01	<2	3	8
CC147175		<10	1	0.03	20	0.68	267	<1	0.01	137	360	7	0.01	<2	2	9
CC147176		<10	<1	0.03	20	0.95	363	1	0.01	232	330	7	0.01	<2	3	14
CC147177		<10	<1	0.02	20	1.08	305	<1	0.01	289	190	6	<0.01	<2	2	9
CC147178		<10	<1	0.03	10	1.23	209	<1	0.01	212	270	6	0.01	<2	2	9
CC147179		<10	<1	0.02	10	2.22	398	<1	0.01	463	290	7	0.01	<2	2	9
CC147180		<10	<1	0.03	10	0.31	260	<1	0.01	74	300	4	0.02	<2	1	5
CC147181		<10	<1	0.03	10	1.79	1545	<1	0.01	480	980	10	0.03	<2	2	7
CC147182		<10	<1	0.03	10	0.65	2150	<1	0.01	204	1190	10	0.06	<2	1	7
CC147183		<10	1	0.04	10	1.42	394	<1	0.01	485	680	7	0.04	3	2	8
CC147184		<10	<1	0.03	10	1.33	878	<1	0.01	332	350	4	0.01	<2	2	7
CC147185		<10	1	0.02	10	1.47	264	<1	0.01	272	200	6	0.01	<2	2	7



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Page: 4 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 6- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147146		<20	0.04	<10	<10	48	<10	77
CC147147		<20	0.04	<10	<10	52	<10	30
CC147148		<20	0.03	<10	<10	52	<10	51
CC147149		<20	0.03	<10	<10	46	<10	44
CC147150		<20	0.02	<10	<10	6	<10	6
CC147151		<20	0.03	<10	<10	82	<10	40
CC147152		<20	0.03	<10	<10	78	<10	66
CC147153		<20	0.01	<10	<10	9	<10	7
CC147154		<20	0.01	<10	<10	63	<10	33
CC147155		<20	0.01	<10	<10	48	<10	32
CC147156		<20	0.01	<10	<10	19	<10	13
CC147157		<20	0.03	<10	<10	37	<10	27
CC147158		<20	0.03	<10	<10	34	<10	35
CC147159		<20	0.03	<10	<10	36	<10	44
CC147160		<20	0.04	<10	<10	40	<10	60
CC147161		<20	0.02	<10	<10	25	<10	39
CC147162		<20	0.01	<10	<10	39	<10	50
CC147163		<20	0.01	<10	<10	33	<10	47
CC147164		<20	0.01	<10	<10	35	<10	40
CC147165		<20	0.03	<10	<10	36	<10	38
CC147166		<20	0.05	<10	<10	49	<10	54
CC147167		<20	0.04	<10	<10	47	<10	42
CC147168		<20	0.05	<10	<10	49	<10	53
CC147169		<20	0.03	<10	<10	32	<10	26
CC147170		<20	0.04	<10	<10	38	<10	48
CC147171		<20	0.02	<10	<10	30	<10	24
CC147172		<20	0.03	<10	<10	39	<10	38
CC147173		<20	0.04	<10	<10	39	<10	47
CC147174		<20	0.04	<10	<10	42	<10	48
CC147175		<20	0.04	<10	<10	35	<10	55
CC147176		<20	0.05	<10	<10	35	<10	60
CC147177		<20	0.04	<10	<10	31	<10	46
CC147178		<20	0.04	<10	<10	38	<10	41
CC147179		<20	0.03	<10	<10	33	<10	41
CC147180		<20	0.03	<10	<10	28	<10	17
CC147181		<20	0.03	<10	<10	54	<10	61
CC147182		<20	0.02	<10	<10	60	<10	46
CC147183		<20	0.03	<10	<10	48	<10	60
CC147184		<20	0.03	<10	<10	40	<10	49
CC147185		<20	0.04	<10	<10	37	<10	45



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Project: Wolverine- Has/Vivi

Total # Pages: 5 (A - C)

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC147186		0.18	0.002	<0.2	1.11	2	<10	90	<0.5	<2	0.08	<0.5	27	404	14	2.90
CC147187		0.39	0.002	<0.2	1.00	2	<10	100	<0.5	<2	0.10	<0.5	23	328	13	2.70
CC147188		0.15	0.004	<0.2	0.68	4	<10	80	<0.5	<2	0.03	<0.5	54	808	7	4.60
CC147189		0.45	0.002	<0.2	0.92	4	<10	80	<0.5	<2	0.08	<0.5	25	440	9	3.04
CC147190		0.18	0.001	<0.2	0.77	3	<10	50	<0.5	<2	0.03	<0.5	30	652	7	4.04
CC147191		0.26	0.001	<0.2	0.86	<2	<10	120	<0.5	<2	0.03	<0.5	20	415	4	2.68
CC147192		0.26	0.005	<0.2	0.76	2	<10	70	<0.5	<2	0.07	<0.5	22	466	10	3.26
CC147193		0.29	0.010	<0.2	0.91	4	<10	70	<0.5	<2	0.07	<0.5	25	463	9	3.13
CC147194		0.19	0.001	<0.2	1.55	8	<10	140	<0.5	<2	0.05	<0.5	9	114	8	3.15
CC147195		0.21	<0.001	<0.2	1.16	17	<10	210	<0.5	<2	0.23	<0.5	20	341	15	3.36
CC147196		0.30	0.001	<0.2	0.60	<2	<10	50	<0.5	<2	0.03	<0.5	22	471	4	2.14
CC147197		0.22	0.006	<0.2	0.74	6	<10	70	<0.5	<2	0.05	<0.5	31	612	9	3.94
CC147198		0.14	0.001	<0.2	0.74	3	<10	80	<0.5	<2	0.05	<0.5	44	506	11	3.65
CC147199		0.10	0.001	<0.2	0.73	<2	<10	100	<0.5	<2	0.03	<0.5	16	428	4	2.42
CC147200		0.25	0.001	<0.2	1.13	9	<10	130	<0.5	<2	0.06	<0.5	60	807	16	5.45
CC147201		0.39	0.004	<0.2	1.72	11	<10	50	<0.5	<2	0.05	<0.5	18	274	21	3.03
CC147202		0.28	0.273	<0.2	1.35	14	<10	100	<0.5	<2	0.07	<0.5	22	222	24	3.16
CC147203		0.33	0.141	<0.2	1.53	9	<10	50	<0.5	<2	0.04	<0.5	11	206	10	2.84
CC147204		0.15	0.017	<0.2	1.14	25	<10	50	<0.5	<2	0.05	<0.5	25	382	17	5.13
CC147205		0.34	0.696	<0.2	1.02	13	<10	100	<0.5	<2	0.07	<0.5	39	810	8	4.66
CC147206		0.24	0.002	<0.2	0.97	5	<10	130	<0.5	<2	0.09	<0.5	14	400	5	2.33
CC147207		0.21	0.004	<0.2	1.42	7	<10	220	<0.5	<2	0.14	<0.5	12	426	12	3.01
CC147208		0.28	0.007	<0.2	1.11	9	<10	110	<0.5	<2	0.07	<0.5	32	445	11	3.26
CC147209		0.38	0.003	<0.2	1.07	12	<10	120	<0.5	<2	0.06	<0.5	33	512	13	3.94
CC147210		0.35	0.012	<0.2	0.98	11	<10	100	<0.5	<2	0.06	<0.5	36	498	12	3.64
CC147211		0.37	0.001	<0.2	0.93	9	<10	110	<0.5	<2	0.06	<0.5	29	514	10	3.79
CC147212		0.43	0.001	<0.2	0.83	2	<10	70	<0.5	<2	0.07	<0.5	23	392	7	2.31
CC147213		0.27	0.003	<0.2	0.84	4	<10	70	<0.5	<2	0.08	<0.5	26	383	9	2.66
CC147214		0.32	0.003	<0.2	1.05	6	<10	90	<0.5	<2	0.08	<0.5	23	356	11	2.71
CC147215		0.29	0.002	<0.2	0.73	3	<10	60	<0.5	<2	0.08	<0.5	22	377	9	2.44
CC147216		0.27	0.004	<0.2	0.79	4	<10	50	<0.5	<2	0.09	<0.5	23	404	13	2.46
CC147217		0.22	0.005	<0.2	1.01	6	<10	80	<0.5	<2	0.06	<0.5	29	517	12	3.34
CC147218		0.24	0.003	<0.2	1.03	5	<10	90	<0.5	<2	0.06	<0.5	19	262	12	2.09
CC147219		0.35	0.020	<0.2	0.91	16	<10	70	<0.5	<2	0.05	<0.5	22	422	12	3.42
CC147220		0.22	0.002	<0.2	0.85	10	<10	100	<0.5	<2	0.03	<0.5	16	310	9	3.52



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Total # Pages: 5 (A - C)

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
CC147186		<10	1	0.03	10	1.70	347	<1	0.01	437	220	8	0.01	<2	2	9
CC147187		<10	<1	0.03	10	1.76	320	<1	0.01	386	310	6	0.01	<2	2	10
CC147188		<10	<1	0.02	10	5.73	650	<1	0.01	775	260	4	0.01	2	3	5
CC147189		<10	<1	0.03	10	2.15	308	<1	0.01	419	250	5	0.01	<2	2	9
CC147190		<10	<1	0.02	10	2.33	381	<1	0.01	448	280	7	0.01	2	2	5
CC147191		10	<1	0.02	10	1.63	287	<1	<0.01	263	230	5	0.01	<2	2	6
CC147192		<10	<1	0.02	10	2.22	284	<1	0.01	472	270	6	0.01	<2	2	8
CC147193		<10	<1	0.03	10	2.06	275	<1	0.01	457	230	5	0.01	<2	2	8
CC147194		10	<1	0.03	10	0.68	176	<1	0.01	106	350	12	0.02	<2	2	9
CC147195		<10	1	0.05	10	1.30	566	<1	0.01	389	1450	10	0.07	<2	3	15
CC147196		<10	<1	0.02	<10	1.04	194	<1	0.02	287	180	2	0.01	<2	1	7
CC147197		<10	<1	0.02	10	2.51	401	<1	0.01	439	280	5	0.01	<2	2	7
CC147198		<10	1	0.03	<10	3.14	807	<1	0.02	550	620	5	0.03	2	2	8
CC147199		<10	<1	0.02	10	1.41	246	<1	0.01	231	210	5	0.01	<2	2	6
CC147200		<10	1	0.05	10	3.45	992	1	0.01	746	680	9	0.03	2	3	9
CC147201		<10	<1	0.02	10	0.74	192	2	<0.01	210	280	9	0.01	<2	3	7
CC147202		<10	<1	0.03	20	0.82	387	3	0.01	241	200	7	<0.01	<2	4	10
CC147203		10	<1	0.03	10	0.54	227	3	<0.01	94	310	7	0.01	<2	2	7
CC147204		10	<1	0.03	10	1.09	585	3	0.01	235	520	8	0.02	<2	3	7
CC147205		<10	<1	0.03	10	2.03	454	2	0.01	453	710	5	0.03	<2	3	9
CC147206		<10	<1	0.02	10	0.79	435	2	0.01	171	870	5	0.04	<2	2	10
CC147207		<10	<1	0.04	10	1.10	150	2	0.01	410	1580	7	0.07	<2	5	14
CC147208		<10	<1	0.03	10	1.93	350	3	0.01	406	370	6	0.02	<2	2	10
CC147209		<10	<1	0.03	10	1.93	403	3	<0.01	502	400	7	0.01	<2	3	9
CC147210		<10	<1	0.02	10	2.28	434	2	0.01	552	390	7	0.02	<2	3	9
CC147211		<10	<1	0.02	10	1.56	379	2	0.01	415	350	6	0.02	<2	2	10
CC147212		<10	<1	0.02	10	1.51	219	2	0.01	380	250	4	0.01	<2	2	10
CC147213		<10	<1	0.02	10	1.55	332	2	0.01	370	210	5	0.01	<2	2	10
CC147214		<10	<1	0.03	10	1.43	283	2	<0.01	384	230	5	0.01	<2	2	10
CC147215		<10	<1	0.02	10	1.34	279	2	<0.01	339	190	4	0.01	<2	2	9
CC147216		<10	<1	0.02	10	1.19	242	2	0.01	378	240	3	0.01	<2	2	8
CC147217		<10	<1	0.02	10	1.88	356	2	<0.01	484	270	5	0.01	<2	2	9
CC147218		<10	<1	0.03	10	0.99	256	2	0.01	294	310	4	0.01	<2	2	10
CC147219		<10	<1	0.03	10	1.21	346	2	<0.01	285	310	5	0.01	<2	2	7
CC147220		10	<1	0.03	10	0.61	461	3	<0.01	169	410	8	0.02	<2	2	7



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Page: 5 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 6- AUG- 2011
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Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123807

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147186		<20	0.04	<10	<10	34	<10	42
CC147187		<20	0.04	<10	<10	31	<10	43
CC147188		<20	0.03	<10	<10	40	<10	44
CC147189		<20	0.04	<10	<10	32	<10	42
CC147190		<20	0.05	<10	<10	50	<10	42
CC147191		<20	0.04	<10	<10	44	<10	28
CC147192		<20	0.03	<10	<10	30	<10	39
CC147193		<20	0.04	<10	<10	31	<10	41
CC147194		<20	0.04	<10	<10	49	<10	50
CC147195		<20	0.04	<10	<10	40	<10	45
CC147196		<20	0.03	<10	<10	24	<10	29
CC147197		<20	0.06	<10	<10	46	<10	49
CC147198		<20	0.03	<10	<10	32	<10	30
CC147199		<20	0.04	<10	<10	41	<10	36
CC147200		<20	0.04	<10	<10	54	<10	65
CC147201		<20	0.03	<10	<10	50	<10	33
CC147202		<20	0.05	<10	<10	44	<10	48
CC147203		<20	0.04	<10	<10	45	<10	37
CC147204		<20	0.07	<10	<10	69	<10	37
CC147205		<20	0.03	<10	<10	43	10	37
CC147206		<20	0.02	<10	<10	29	<10	49
CC147207		<20	0.03	<10	<10	38	<10	40
CC147208		<20	0.04	<10	<10	38	<10	41
CC147209		<20	0.04	<10	<10	40	<10	44
CC147210		<20	0.04	<10	<10	36	<10	36
CC147211		<20	0.04	<10	<10	37	<10	44
CC147212		<20	0.03	<10	<10	22	<10	44
CC147213		<20	0.03	<10	<10	26	<10	41
CC147214		<20	0.03	<10	<10	28	<10	42
CC147215		<20	0.03	<10	<10	23	<10	38
CC147216		<20	0.04	<10	<10	28	<10	31
CC147217		<20	0.03	<10	<10	31	<10	41
CC147218		<20	0.03	<10	<10	27	<10	33
CC147219		<20	0.05	<10	<10	43	<10	44
CC147220		<20	0.05	<10	<10	57	<10	41



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Account: F

CERTIFICATE WH11123808

Project: Wolverine- Has/Vivi

P.O. No.:

This report is for 140 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC147221		0.26	0.005	0.2	1.50	12	<10	210	<0.5	<2	0.17	<0.5	20	689	15	4.16
CC147222		0.35	0.003	<0.2	0.73	12	<10	50	<0.5	<2	0.03	<0.5	18	342	8	2.88
CC147223		0.23	0.044	<0.2	1.84	18	<10	80	0.7	<2	0.06	<0.5	44	532	26	6.13
CC147224		0.24	0.005	0.4	1.59	7	<10	140	<0.5	<2	0.13	<0.5	10	139	24	2.09
CC147225		0.44	0.014	<0.2	1.84	13	<10	70	<0.5	<2	0.08	<0.5	14	216	33	3.15
CC147226		0.43	0.003	0.2	3.16	11	<10	230	<0.5	<2	0.14	<0.5	18	188	50	3.83
CC147227		0.14	0.014	0.2	2.36	7	<10	90	<0.5	<2	0.08	<0.5	12	123	33	2.50
CC147228		0.34	0.002	0.2	4.11	18	<10	180	<0.5	<2	0.05	<0.5	18	181	86	5.00
CC147229		0.49	0.003	<0.2	2.46	11	<10	100	<0.5	<2	0.07	<0.5	16	174	49	3.36
CC147230		0.39	0.132	0.2	1.66	5	<10	50	<0.5	<2	0.06	<0.5	13	173	28	2.32
CC147231		0.45	0.003	0.2	1.92	6	<10	50	<0.5	<2	0.06	<0.5	11	125	20	1.91
CC147232		0.25	0.008	<0.2	1.62	6	<10	70	<0.5	<2	0.07	<0.5	16	170	41	2.32
CC147233		0.22	0.005	<0.2	1.16	4	<10	60	<0.5	<2	0.08	<0.5	13	143	28	1.89
CC147234		0.29	0.003	<0.2	1.71	7	<10	60	<0.5	<2	0.05	<0.5	9	87	25	1.93
CC147235		0.14	0.007	0.3	1.63	7	<10	50	<0.5	<2	0.05	<0.5	10	130	21	2.93
CC147236		0.21	0.002	<0.2	0.98	3	<10	30	<0.5	<2	0.03	<0.5	5	42	13	0.90
CC147237		0.26	0.003	<0.2	1.88	4	<10	40	<0.5	<2	0.05	<0.5	9	122	19	1.72
CC147238		0.17	0.005	0.5	3.20	11	<10	190	0.5	<2	0.20	<0.5	15	144	164	3.36
CC147239		0.36	0.004	0.3	1.83	7	<10	80	<0.5	<2	0.07	<0.5	11	85	36	2.40
CC147240		0.19	0.004	0.6	2.22	5	<10	110	<0.5	<2	0.13	<0.5	8	70	74	1.84
CC147241		0.25	0.004	<0.2	2.38	5	<10	130	<0.5	<2	0.14	<0.5	15	172	70	2.66
CC147242		0.22	NSS	0.3	4.78	18	<10	380	0.5	<2	0.34	<0.5	53	315	279	5.19
CC147243		0.24	0.001	<0.2	1.34	<2	<10	50	<0.5	<2	0.06	<0.5	10	95	27	1.55
CC147244		0.14	0.004	0.2	0.87	<2	<10	50	<0.5	<2	0.06	<0.5	5	57	40	0.69
CC147245		0.16	0.018	0.3	2.01	30	<10	170	<0.5	<2	0.18	<0.5	30	178	26	3.03
CC147246		0.19	0.016	<0.2	1.43	7	<10	30	<0.5	<2	0.04	<0.5	11	156	19	2.44
CC147247		0.19	NSS	0.3	3.03	<2	<10	340	0.6	<2	0.23	<0.5	21	281	151	2.27
CC147248		0.27	0.001	0.2	1.97	6	<10	160	<0.5	<2	0.14	<0.5	32	172	160	2.83
CC147249		0.48	0.002	<0.2	1.71	<2	<10	60	<0.5	<2	0.06	<0.5	14	218	45	1.87
CC147250		0.20	<0.001	0.2	1.20	<2	<10	70	<0.5	<2	0.05	<0.5	9	114	46	1.16
CC147251		0.36	0.154	0.2	1.31	74	<10	440	<0.5	<2	0.21	<0.5	15	53	46	2.97
CC147252		0.32	0.012	2.1	1.37	14	<10	980	0.6	<2	0.64	4.6	11	44	108	1.85
CC147253		0.43	0.010	0.4	1.26	11	<10	440	<0.5	<2	0.37	2.3	12	38	37	2.48
CC147254		0.30	0.013	0.5	1.21	15	<10	380	<0.5	<2	0.38	0.9	13	65	36	2.43
CC147255		0.38	0.009	0.6	1.14	14	<10	360	<0.5	<2	0.56	0.9	10	48	33	2.06
CC147256		0.37	0.015	0.5	1.37	16	<10	370	<0.5	<2	0.36	<0.5	11	60	34	2.27
CC147257		0.36	0.021	1.0	1.36	16	<10	410	<0.5	<2	0.38	0.7	12	51	29	2.53
CC147258		0.38	0.025	1.3	1.35	30	<10	600	<0.5	<2	0.46	3.0	13	55	113	2.79
CC147259		0.24	0.017	0.8	1.31	29	<10	600	<0.5	<2	0.45	2.1	10	50	74	2.18
CC147260		0.28	0.013	2.2	1.26	17	<10	640	<0.5	<2	1.39	3.4	11	46	80	1.85



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Page: 2 - B
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147221		<10	1	0.04	10	1.31	461	<1	<0.01	415	2020	7	0.12	2	3	13
CC147222		<10	1	0.02	<10	0.44	707	<1	0.01	171	680	3	0.03	<2	1	6
CC147223		10	1	0.04	10	2.20	963	<1	<0.01	403	740	8	0.02	2	5	5
CC147224		<10	1	0.03	10	0.63	151	<1	0.01	133	480	5	0.02	<2	3	10
CC147225		10	1	0.03	10	1.04	234	<1	<0.01	175	390	6	0.02	<2	3	7
CC147226		10	<1	0.06	10	1.34	308	1	0.01	200	700	8	0.04	<2	3	12
CC147227		10	<1	0.04	10	0.84	187	1	0.01	107	670	6	0.04	<2	1	8
CC147228		10	1	0.09	10	0.94	479	1	0.01	185	900	11	0.04	<2	5	9
CC147229		10	1	0.04	10	0.96	255	1	0.01	146	420	8	0.02	<2	4	8
CC147230		<10	<1	0.02	10	0.89	186	<1	0.01	119	270	5	0.02	<2	2	6
CC147231		<10	<1	0.02	10	0.66	134	<1	<0.01	80	350	6	0.02	<2	2	7
CC147232		<10	1	0.02	10	1.04	243	<1	0.01	107	160	5	0.01	<2	4	6
CC147233		<10	<1	0.02	10	0.82	191	<1	0.01	83	140	4	0.01	<2	3	7
CC147234		<10	<1	0.03	10	0.49	209	<1	0.01	57	360	6	0.02	<2	1	5
CC147235		10	<1	0.03	10	0.54	150	1	<0.01	70	350	6	0.02	<2	2	5
CC147236		10	<1	0.03	10	0.19	69	<1	0.01	28	350	4	0.02	<2	<1	5
CC147237		10	1	0.02	10	0.55	102	<1	0.01	61	340	5	0.02	<2	2	5
CC147238		10	1	0.04	10	0.92	278	1	0.01	208	1220	12	0.06	<2	1	17
CC147239		10	1	0.04	10	0.58	312	1	0.01	61	570	5	0.05	<2	1	8
CC147240		<10	<1	0.03	<10	0.35	266	<1	0.02	136	1260	3	0.09	<2	2	11
CC147241		<10	1	0.04	10	1.12	236	<1	0.01	194	820	5	0.05	<2	3	11
CC147242		10	1	0.09	10	2.39	1405	<1	0.01	564	1230	10	0.06	<2	12	20
CC147243		<10	<1	0.03	<10	0.65	169	<1	0.01	63	270	3	0.02	<2	2	7
CC147244		<10	<1	0.02	<10	0.18	20	<1	0.01	41	500	2	0.05	<2	1	7
CC147245		<10	<1	0.02	10	0.66	1040	1	0.01	124	1940	6	0.11	<2	1	13
CC147246		10	<1	0.02	10	0.69	241	1	<0.01	62	370	5	0.01	<2	2	4
CC147247		10	1	0.04	10	1.27	625	<1	0.01	256	910	6	0.09	<2	8	15
CC147248		<10	<1	0.04	<10	0.95	467	<1	0.02	192	610	5	0.03	<2	5	12
CC147249		<10	<1	0.02	10	1.40	148	<1	<0.01	116	360	4	0.02	<2	2	6
CC147250		<10	<1	0.03	<10	0.69	75	<1	0.01	78	400	2	0.03	<2	1	7
CC147251		<10	<1	0.06	20	0.60	823	2	0.01	55	680	29	0.02	<2	2	22
CC147252		<10	1	0.05	20	0.45	607	2	0.01	40	1360	28	0.08	3	4	104
CC147253		<10	<1	0.05	20	0.61	457	2	<0.01	33	620	19	0.02	<2	3	31
CC147254		<10	<1	0.05	20	0.77	366	2	0.01	51	780	15	0.04	2	3	41
CC147255		<10	<1	0.05	20	0.64	370	1	0.01	34	890	14	0.05	2	3	58
CC147256		<10	<1	0.05	20	0.78	349	2	0.01	43	720	17	0.03	2	4	33
CC147257		<10	<1	0.05	20	0.64	1025	5	0.01	36	660	16	0.04	2	3	37
CC147258		<10	1	0.06	20	0.59	305	4	0.01	67	1020	19	0.04	4	4	68
CC147259		<10	<1	0.05	20	0.61	267	2	<0.01	51	840	17	0.03	3	4	57
CC147260		<10	<1	0.05	20	0.51	650	3	0.01	62	1220	20	0.10	2	3	140



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Page: 2 - C
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147221		<20	0.02	<10	<10	45	<10	68
CC147222		<20	0.03	<10	<10	36	<10	32
CC147223		<20	0.08	<10	<10	74	<10	92
CC147224		<20	0.03	<10	<10	37	<10	35
CC147225		<20	0.04	<10	<10	59	<10	51
CC147226		<20	0.04	<10	<10	74	<10	70
CC147227		<20	0.03	<10	<10	58	<10	46
CC147228		<20	0.04	<10	<10	128	<10	98
CC147229		<20	0.04	<10	<10	69	<10	66
CC147230		<20	0.04	<10	<10	50	<10	39
CC147231		<20	0.03	<10	<10	39	<10	36
CC147232		<20	0.04	<10	<10	49	<10	40
CC147233		<20	0.03	<10	<10	39	<10	35
CC147234		<20	0.03	<10	<10	43	<10	42
CC147235		<20	0.05	<10	<10	52	<10	46
CC147236		<20	0.02	<10	<10	33	<10	22
CC147237		<20	0.03	<10	<10	41	<10	30
CC147238		<20	0.02	<10	<10	64	<10	59
CC147239		<20	0.02	<10	<10	48	<10	52
CC147240		<20	0.02	<10	<10	26	<10	30
CC147241		<20	0.03	<10	<10	45	<10	53
CC147242		<20	0.04	<10	<10	108	<10	89
CC147243		<20	0.03	<10	<10	42	<10	26
CC147244		<20	0.01	<10	<10	12	<10	12
CC147245		<20	0.01	<10	<10	64	<10	53
CC147246		<20	0.04	<10	<10	74	<10	37
CC147247		<20	0.02	<10	<10	41	<10	52
CC147248		<20	0.03	<10	<10	52	<10	46
CC147249		<20	0.02	<10	<10	40	<10	35
CC147250		<20	0.02	<10	<10	24	<10	22
CC147251		<20	0.03	<10	<10	37	<10	183
CC147252		<20	0.01	<10	<10	47	<10	132
CC147253		<20	0.03	<10	<10	38	<10	162
CC147254		<20	0.03	<10	<10	35	<10	124
CC147255		<20	0.03	<10	<10	36	<10	106
CC147256		<20	0.04	<10	<10	41	<10	112
CC147257		<20	0.03	<10	<10	42	<10	109
CC147258		<20	0.02	<10	<10	42	<10	630
CC147259		<20	0.03	<10	<10	40	<10	302
CC147260		<20	0.02	<10	<10	32	<10	236



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Page: 3 - A
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC147261		0.27	0.010	0.5	1.41	16	<10	430	<0.5	<2	0.95	2.5	15	63	45	2.40
CC147262		0.60	0.007	0.4	1.29	27	<10	290	<0.5	<2	0.51	1.5	12	45	39	2.74
CC147263		0.48	0.010	0.8	0.99	26	<10	290	<0.5	<2	0.40	3.9	8	30	44	2.14
CC147264		0.26	0.009	0.7	1.51	36	<10	590	<0.5	<2	1.25	1.4	10	34	74	2.13
CC147265		0.29	0.012	0.8	1.42	41	<10	430	0.5	<2	0.97	<0.5	6	23	57	1.67
CC147266		0.33	0.009	0.9	1.37	11	<10	310	<0.5	<2	0.64	0.9	7	26	53	1.82
CC147267		0.44	0.007	<0.2	1.03	9	<10	160	<0.5	<2	0.41	<0.5	7	34	21	2.01
CC147268		0.52	0.010	0.2	1.27	16	<10	250	<0.5	<2	0.24	<0.5	12	39	60	2.77
CC147269		0.27	0.012	0.5	1.40	30	<10	580	0.5	<2	0.91	1.1	12	58	79	2.68
CC147270		0.23	0.006	0.2	0.52	29	<10	230	<0.5	<2	0.85	0.5	4	8	14	1.06
CC147271		0.30	0.004	<0.2	2.25	24	<10	150	<0.5	<2	0.08	<0.5	12	184	58	2.55
CC147272		0.30	0.004	0.2	2.50	26	<10	100	<0.5	<2	0.06	<0.5	21	302	37	3.32
CC147273		0.32	0.015	<0.2	3.14	57	<10	250	<0.5	<2	0.11	<0.5	28	348	53	2.67
CC147274		0.28	0.004	0.2	2.39	47	<10	220	<0.5	<2	0.23	<0.5	18	227	136	2.70
CC147275		0.30	0.164	<0.2	2.05	26	<10	110	<0.5	<2	0.07	<0.5	12	229	45	2.81
CC147276		0.40	0.003	0.2	1.58	24	<10	80	<0.5	<2	0.12	<0.5	16	228	47	2.24
CC147277		0.26	0.006	0.3	2.67	174	<10	290	<0.5	<2	0.65	<0.5	47	353	317	3.78
CC147278		0.40	0.005	<0.2	0.72	7	<10	70	<0.5	<2	0.08	<0.5	40	573	15	3.18
CC147279		0.19	0.002	<0.2	0.42	10	10	50	<0.5	<2	0.02	<0.5	89	1040	11	5.29
CC147280		0.34	0.008	<0.2	0.98	5	<10	70	<0.5	<2	0.08	<0.5	23	465	11	2.99
CC147281		0.36	0.003	<0.2	0.68	10	<10	70	<0.5	<2	0.05	<0.5	43	789	13	4.31
CC147282		0.43	0.027	<0.2	0.97	6	<10	90	<0.5	<2	0.11	<0.5	23	385	15	2.80
CC147283		0.44	0.006	<0.2	1.06	5	<10	110	<0.5	<2	0.12	<0.5	26	287	13	2.82
CC147284		0.35	0.008	<0.2	1.08	10	<10	90	<0.5	<2	0.09	<0.5	25	442	12	3.13
CC147285		0.32	0.006	<0.2	0.86	11	<10	70	<0.5	<2	0.09	<0.5	22	347	10	2.61
CC147286		0.36	0.003	<0.2	0.77	37	<10	70	<0.5	<2	0.07	<0.5	38	291	12	3.09
CC147287		0.28	0.012	<0.2	0.78	27	<10	70	<0.5	<2	0.07	<0.5	38	449	11	3.30
CC147288		0.31	0.002	<0.2	0.72	58	<10	60	<0.5	<2	0.08	<0.5	27	324	9	2.98
CC147289		0.23	0.003	<0.2	0.46	10	<10	70	<0.5	<2	0.05	<0.5	57	856	8	4.48
CC147290		0.20	0.002	<0.2	0.75	7	<10	70	<0.5	<2	0.07	<0.5	42	487	8	3.36
CC147291		0.15	0.004	<0.2	0.46	22	<10	50	<0.5	<2	0.03	<0.5	66	818	5	4.81
CC147292		0.26	0.003	<0.2	0.62	10	<10	60	<0.5	<2	0.05	<0.5	45	475	7	3.44
CC147293		0.16	0.003	<0.2	0.64	9	<10	70	<0.5	<2	0.06	<0.5	40	589	6	3.28
CC147294		0.40	0.004	<0.2	0.86	11	<10	90	<0.5	<2	0.11	<0.5	29	352	9	2.80
CC147295		0.26	0.002	<0.2	0.57	9	<10	50	<0.5	<2	0.06	<0.5	52	703	8	3.90
CC147296		0.27	0.002	<0.2	0.40	9	10	50	<0.5	<2	0.03	<0.5	81	990	8	4.89
CC147297		0.27	0.003	<0.2	0.95	17	<10	80	<0.5	<2	0.05	<0.5	55	521	14	4.16
CC147298		0.20	0.008	<0.2	0.64	22	<10	60	<0.5	<2	0.03	<0.5	51	792	12	4.38
CC147299		0.15	0.008	<0.2	0.47	13	<10	50	<0.5	3	0.03	<0.5	53	880	9	4.40
CC147300		0.24	0.051	<0.2	0.60	6	<10	80	<0.5	<2	0.04	<0.5	20	387	7	2.89



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Page: 3 - B
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147261		<10	<1	0.05	20	0.87	767	1	0.01	66	890	13	0.05	<2	3	72
CC147262		<10	<1	0.05	30	0.66	413	2	0.01	40	880	19	0.03	2	3	35
CC147263		<10	<1	0.05	40	0.42	364	5	0.01	38	910	27	0.05	2	3	43
CC147264		<10	<1	0.05	30	0.50	730	3	0.02	38	1170	23	0.10	<2	2	89
CC147265		<10	<1	0.06	30	0.35	462	3	0.02	29	900	16	0.09	<2	2	69
CC147266		<10	1	0.05	20	0.44	355	3	0.02	31	970	23	0.08	<2	2	51
CC147267		<10	<1	0.05	20	0.56	348	2	0.01	30	770	10	0.03	<2	2	31
CC147268		<10	<1	0.05	20	0.61	582	3	0.01	41	730	15	0.03	<2	3	20
CC147269		<10	<1	0.05	20	0.63	969	5	0.02	59	910	40	0.10	2	3	76
CC147270		<10	<1	0.04	30	0.15	260	2	0.02	12	500	16	0.07	<2	1	72
CC147271		10	<1	0.03	10	0.87	150	2	0.01	93	270	14	0.04	<2	3	10
CC147272		10	1	0.03	10	1.40	223	2	0.01	225	220	6	0.03	<2	4	8
CC147273		<10	1	0.04	10	1.54	210	1	0.02	234	130	8	0.03	<2	3	9
CC147274		10	<1	0.04	10	1.25	283	2	0.02	122	320	11	0.04	<2	4	14
CC147275		10	<1	0.04	10	1.07	158	2	0.01	86	140	6	0.03	<2	3	9
CC147276		<10	<1	0.03	10	1.18	175	1	0.02	133	140	3	0.03	<2	3	9
CC147277		<10	<1	0.14	10	2.03	692	2	0.02	316	620	8	0.06	<2	13	25
CC147278		<10	<1	0.02	10	2.72	380	1	0.01	668	170	5	0.03	<2	3	10
CC147279		<10	<1	0.01	<10	5.42	960	1	0.01	1040	280	5	0.03	<2	3	6
CC147280		<10	<1	0.03	10	1.65	287	1	0.01	431	310	5	0.03	<2	3	10
CC147281		<10	<1	0.02	10	3.73	519	1	0.01	780	360	5	0.03	<2	3	8
CC147282		<10	<1	0.03	10	1.30	325	1	0.01	377	280	5	0.03	<2	3	12
CC147283		<10	<1	0.03	10	1.62	351	2	0.02	413	260	7	0.03	<2	3	14
CC147284		<10	<1	0.03	10	1.64	323	2	0.01	417	260	5	0.03	<2	2	11
CC147285		<10	<1	0.02	10	1.65	249	2	0.01	455	220	4	0.03	<2	2	11
CC147286		<10	<1	0.02	10	3.29	466	1	0.01	551	230	4	0.03	<2	2	9
CC147287		<10	<1	0.02	10	3.30	418	1	0.01	560	280	3	0.03	<2	3	9
CC147288		<10	<1	0.02	10	2.69	279	1	0.01	537	170	4	0.03	<2	3	8
CC147289		<10	<1	0.02	10	4.14	723	1	0.01	829	350	4	0.04	<2	3	7
CC147290		<10	<1	0.03	10	2.88	411	1	0.01	627	200	6	0.03	<2	3	9
CC147291		<10	<1	0.02	10	3.84	754	1	0.01	704	390	4	0.03	<2	3	5
CC147292		<10	<1	0.02	10	3.81	465	1	0.01	652	290	4	0.03	<2	3	8
CC147293		<10	<1	0.02	10	2.66	566	1	0.01	540	370	3	0.03	<2	2	10
CC147294		<10	<1	0.03	10	2.60	325	1	0.01	540	380	6	0.03	<2	3	12
CC147295		<10	<1	0.02	10	4.08	543	1	0.01	782	190	3	0.03	<2	3	7
CC147296		<10	<1	0.01	<10	5.77	861	1	0.01	995	310	5	0.03	<2	3	5
CC147297		<10	<1	0.04	10	3.25	595	2	0.01	567	290	8	0.03	<2	3	9
CC147298		<10	<1	0.02	10	3.61	518	2	0.01	672	300	7	0.03	<2	2	6
CC147299		<10	<1	0.02	<10	2.54	591	<1	0.01	610	230	5	0.01	<2	2	4
CC147300		<10	<1	0.03	10	1.63	259	<1	0.01	283	320	5	0.01	<2	2	6



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Page: 3 - C
 Total # Pages: 5 (A - C)
 Plus Appendix Pages
 Finalized Date: 6- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	Zn
		ppm	%	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	2
CC147261		<20	0.04	<10	<10	35	<10
CC147262		<20	0.03	<10	<10	35	<10
CC147263		20	0.02	<10	<10	24	<10
CC147264		<20	0.01	<10	<10	27	<10
CC147265		<20	0.01	<10	<10	19	<10
CC147266		<20	0.01	<10	<10	19	<10
CC147267		<20	0.05	<10	<10	27	<10
CC147268		<20	0.05	<10	<10	34	<10
CC147269		<20	0.02	<10	<10	35	<10
CC147270		<20	0.01	<10	<10	6	<10
CC147271		<20	0.07	<10	<10	75	<10
CC147272		<20	0.06	<10	<10	66	<10
CC147273		<20	0.07	<10	<10	64	<10
CC147274		<20	0.05	<10	<10	67	<10
CC147275		<20	0.06	<10	<10	78	<10
CC147276		<20	0.06	<10	<10	54	<10
CC147277		<20	0.06	<10	<10	97	<10
CC147278		<20	0.04	<10	<10	31	<10
CC147279		<20	0.02	<10	<10	36	<10
CC147280		<20	0.05	<10	<10	33	<10
CC147281		<20	0.03	<10	<10	35	<10
CC147282		<20	0.05	<10	<10	33	<10
CC147283		<20	0.05	<10	<10	32	<10
CC147284		<20	0.04	<10	<10	35	<10
CC147285		<20	0.04	<10	<10	27	<10
CC147286		<20	0.03	<10	<10	25	<10
CC147287		<20	0.03	<10	<10	28	<10
CC147288		<20	0.03	<10	<10	25	<10
CC147289		<20	0.02	<10	<10	31	<10
CC147290		<20	0.03	<10	<10	31	<10
CC147291		<20	0.02	<10	<10	36	<10
CC147292		<20	0.03	<10	<10	27	<10
CC147293		<20	0.03	<10	<10	28	<10
CC147294		<20	0.04	<10	<10	28	<10
CC147295		<20	0.03	<10	<10	31	<10
CC147296		<20	0.02	<10	<10	32	<10
CC147297		<20	0.05	<10	<10	38	<10
CC147298		<20	0.03	<10	<10	35	<10
CC147299		<20	0.04	<10	<10	46	<10
CC147300		<20	0.04	<10	<10	35	<10



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Page: 4 - A
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC147301		0.20	0.048	<0.2	1.15	18	<10	120	<0.5	2	0.07	<0.5	79	674	29	8.15
CC147302		0.37	0.011	<0.2	1.35	10	<10	120	<0.5	<2	0.16	<0.5	40	330	14	4.56
CC147303		0.47	0.034	<0.2	0.71	9	<10	70	<0.5	<2	0.10	<0.5	51	425	18	4.69
CC147304		0.53	0.165	<0.2	0.86	17	<10	70	<0.5	<2	0.13	<0.5	43	437	19	4.02
CC147305		0.42	0.041	<0.2	0.89	35	<10	50	<0.5	<2	0.13	<0.5	36	439	46	3.65
CC147306		0.34	0.095	<0.2	1.03	56	<10	90	<0.5	<2	0.15	<0.5	49	443	46	4.99
CC147307		0.53	0.089	<0.2	1.47	54	<10	120	<0.5	<2	0.19	<0.5	40	311	47	4.39
CC147308		0.16	0.008	<0.2	2.06	33	<10	150	0.8	<2	0.28	<0.5	22	172	34	4.29
CC147309		0.20	<0.001	<0.2	1.28	16	<10	200	<0.5	<2	0.34	<0.5	10	104	39	2.47
CC147310		0.30	0.028	<0.2	1.57	21	<10	150	0.7	<2	0.18	<0.5	15	120	31	3.27
CC147311		0.24	0.008	<0.2	1.68	17	<10	170	1.0	<2	0.13	<0.5	14	122	24	3.03
CC147312		0.34	0.003	0.4	2.73	27	<10	200	0.7	<2	0.43	0.5	21	112	121	3.55
CC147313		0.23	0.002	<0.2	2.78	8	<10	230	<0.5	<2	0.31	<0.5	27	221	80	3.11
CC147314		0.17	0.002	<0.2	1.36	<2	<10	100	<0.5	<2	0.16	<0.5	14	106	51	1.47
CC147315		0.22	0.003	<0.2	2.01	<2	<10	150	<0.5	<2	0.23	<0.5	21	151	121	2.20
CC147316		0.28	0.010	<0.2	3.26	14	<10	260	<0.5	<2	0.31	<0.5	47	186	267	3.30
CC147317		0.09	0.004	<0.2	1.34	5	<10	140	<0.5	<2	0.06	<0.5	29	168	20	3.59
CC147318		0.47	0.002	<0.2	1.64	6	<10	140	<0.5	<2	0.29	<0.5	48	285	124	4.02
CC147319		0.35	0.005	<0.2	1.26	4	<10	130	<0.5	<2	0.19	<0.5	32	213	45	3.21
CC147320		0.27	0.007	<0.2	1.70	6	<10	40	<0.5	<2	0.04	<0.5	16	268	38	3.97
CC147321		0.20	0.001	<0.2	1.36	3	<10	70	<0.5	<2	0.06	<0.5	33	187	57	2.44
CC147322		0.15	0.004	<0.2	1.86	<2	<10	130	<0.5	<2	0.12	<0.5	24	138	130	2.44
CC147323		0.25	0.004	0.2	1.38	<2	<10	110	<0.5	<2	0.15	<0.5	13	112	241	1.75
CC147324		0.14	0.003	<0.2	0.81	2	<10	50	<0.5	<2	0.04	<0.5	8	53	18	1.22
CC147325		0.11	0.002	<0.2	1.53	3	<10	90	<0.5	<2	0.09	<0.5	21	147	34	2.20
CC147326		0.39	0.015	<0.2	1.57	3	<10	90	<0.5	<2	0.13	<0.5	19	209	46	2.28
CC147327		0.16	0.002	<0.2	2.85	17	<10	210	<0.5	<2	0.17	<0.5	45	221	94	3.95
CC147328		0.18	<0.001	<0.2	0.36	<2	<10	10	<0.5	<2	0.03	<0.5	1	6	2	0.24
CC147329		0.17	0.011	<0.2	2.05	7	<10	100	<0.5	<2	0.10	<0.5	19	135	38	2.53
CC147330		0.20	0.002	0.2	2.36	9	<10	60	<0.5	<2	0.05	<0.5	15	174	27	2.91
CC147331		0.35	0.004	<0.2	1.73	18	<10	40	<0.5	<2	0.06	<0.5	16	218	38	2.44
CC147332		0.31	0.005	<0.2	1.81	10	<10	30	<0.5	<2	0.05	<0.5	19	237	46	2.56
CC147333		0.26	0.011	<0.2	1.81	14	<10	40	<0.5	<2	0.06	<0.5	17	203	44	2.36
CC147334		0.47	0.007	<0.2	1.44	8	<10	70	<0.5	<2	0.09	<0.5	13	176	24	2.14
CC147335		0.45	0.005	0.2	1.86	15	<10	80	<0.5	<2	0.12	<0.5	19	248	69	3.23
CC147336		0.37	0.019	<0.2	1.87	22	<10	40	<0.5	<2	0.05	<0.5	25	300	90	3.31
CC147337		0.17	0.002	<0.2	1.80	20	<10	50	<0.5	<2	0.06	<0.5	18	225	52	2.83
CC147338		0.20	0.003	<0.2	1.80	18	<10	70	<0.5	<2	0.07	<0.5	23	265	37	3.31
CC147339		0.28	0.007	0.2	1.06	16	<10	80	<0.5	<2	0.06	<0.5	25	268	13	2.73
CC147340		0.40	0.003	<0.2	1.66	58	<10	80	<0.5	<2	0.05	<0.5	22	331	72	3.31



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Page: 4 - B
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 6- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147301		10	<1	0.03	10	1.84	2320	<1	0.01	391	620	8	0.02	<2	7	8
CC147302		<10	<1	0.04	10	1.76	1485	<1	0.01	303	870	9	0.05	<2	5	10
CC147303		<10	<1	0.03	<10	2.38	1235	<1	0.01	443	240	5	0.02	<2	7	4
CC147304		<10	<1	0.04	<10	2.00	1085	<1	0.01	326	280	6	0.02	<2	6	6
CC147305		<10	<1	0.03	<10	1.54	706	<1	0.01	438	230	4	0.02	<2	7	5
CC147306		<10	<1	0.03	<10	1.35	1340	<1	0.01	327	430	7	0.03	<2	5	8
CC147307		10	<1	0.14	10	1.19	990	<1	0.02	234	580	9	0.04	<2	6	12
CC147308		10	<1	0.18	10	1.46	756	<1	0.02	127	550	14	0.04	<2	7	14
CC147309		10	<1	0.10	10	0.70	684	<1	0.02	108	700	9	0.03	<2	3	19
CC147310		10	<1	0.14	10	0.89	487	<1	0.01	86	450	13	0.02	<2	4	12
CC147311		10	<1	0.13	10	0.74	916	<1	0.01	81	580	11	0.03	<2	4	12
CC147312		10	<1	0.09	10	0.78	668	<1	0.02	244	1520	11	0.08	<2	4	22
CC147313		<10	<1	0.04	10	1.46	483	<1	0.02	361	990	6	0.04	<2	5	22
CC147314		<10	<1	0.03	<10	0.77	176	<1	0.03	195	370	4	0.02	<2	2	12
CC147315		<10	<1	0.03	10	1.42	210	<1	0.03	273	270	5	0.01	<2	4	14
CC147316		10	<1	0.20	<10	2.79	515	<1	0.04	500	250	7	0.01	<2	7	16
CC147317		10	<1	0.07	10	1.29	410	<1	0.01	230	380	10	0.02	<2	3	9
CC147318		<10	<1	0.05	10	3.71	661	<1	0.02	703	800	7	0.04	<2	8	13
CC147319		10	<1	0.04	10	2.23	521	<1	0.01	264	320	9	0.02	<2	5	11
CC147320		10	<1	0.03	10	1.29	285	<1	0.01	136	330	5	0.01	<2	3	5
CC147321		10	<1	0.03	10	1.22	634	<1	0.01	170	280	4	0.01	<2	2	7
CC147322		10	<1	0.04	<10	1.05	475	<1	0.02	273	570	4	0.03	<2	3	13
CC147323		<10	<1	0.04	<10	0.78	120	<1	0.03	259	710	3	0.04	<2	4	11
CC147324		<10	<1	0.02	<10	0.32	70	<1	0.02	107	160	2	0.01	<2	2	6
CC147325		<10	<1	0.03	<10	1.16	290	<1	0.02	241	240	5	0.01	<2	3	8
CC147326		<10	<1	0.02	10	1.48	299	<1	0.01	209	300	5	0.01	<2	3	9
CC147327		10	1	0.03	10	1.39	2480	1	0.02	266	1470	10	0.07	<2	3	15
CC147328		<10	<1	0.02	<10	0.02	12	<1	0.03	3	260	<2	0.02	<2	<1	6
CC147329		10	<1	0.04	10	0.84	404	<1	0.02	175	370	9	0.02	<2	3	8
CC147330		10	<1	0.03	10	0.97	166	<1	0.01	129	350	8	0.02	<2	4	6
CC147331		<10	<1	0.01	10	1.48	162	<1	0.01	229	120	4	0.01	<2	4	6
CC147332		10	<1	0.02	<10	1.78	187	<1	0.01	238	180	4	0.01	<2	4	4
CC147333		10	<1	0.02	<10	1.77	199	<1	0.01	195	180	5	0.01	<2	4	5
CC147334		10	<1	0.02	10	1.26	156	<1	0.01	117	180	4	0.01	<2	3	7
CC147335		<10	<1	0.03	10	1.49	300	<1	0.02	220	280	6	0.01	<2	7	8
CC147336		<10	<1	0.02	<10	1.83	351	<1	0.02	400	150	3	<0.01	3	6	5
CC147337		<10	<1	0.02	10	1.38	217	<1	0.02	179	180	3	0.01	<2	5	6
CC147338		10	<1	0.02	10	1.63	479	<1	0.02	232	210	7	<0.01	<2	4	8
CC147339		<10	<1	0.02	10	1.67	482	<1	0.02	195	200	5	0.01	<2	3	7
CC147340		<10	<1	0.02	10	1.58	366	<1	0.02	222	170	4	<0.01	3	6	6



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Page: 4 - C
 Total # Pages: 5 (A - C)
 Plus Appendix Pages
 Finalized Date: 6- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147301		<20	0.05	<10	<10	49	<10	112
CC147302		<20	0.03	<10	<10	35	<10	49
CC147303		<20	0.02	<10	<10	29	<10	26
CC147304		<20	0.04	<10	<10	36	<10	47
CC147305		<20	0.02	<10	<10	40	<10	27
CC147306		<20	0.03	<10	<10	53	<10	57
CC147307		<20	0.08	<10	<10	61	<10	78
CC147308		<20	0.15	<10	<10	90	<10	103
CC147309		<20	0.10	<10	<10	59	<10	69
CC147310		<20	0.11	<10	<10	70	<10	69
CC147311		<20	0.09	<10	<10	63	<10	55
CC147312		<20	0.04	<10	<10	66	<10	80
CC147313		<20	0.03	<10	<10	51	<10	104
CC147314		<20	0.03	<10	<10	27	<10	31
CC147315		<20	0.04	<10	<10	43	<10	44
CC147316		<20	0.04	<10	<10	62	<10	57
CC147317		<20	0.07	<10	<10	52	<10	65
CC147318		<20	0.03	<10	<10	47	<10	55
CC147319		<20	0.06	<10	<10	48	<10	54
CC147320		<20	0.05	<10	<10	84	<10	40
CC147321		<20	0.02	<10	<10	52	<10	40
CC147322		<20	0.03	<10	<10	44	<10	44
CC147323		<20	0.02	<10	<10	22	<10	34
CC147324		<20	0.03	<10	<10	22	<10	23
CC147325		<20	0.03	<10	<10	43	<10	45
CC147326		<20	0.03	<10	<10	42	<10	48
CC147327		<20	0.02	<10	<10	73	<10	93
CC147328		<20	0.01	<10	<10	6	<10	4
CC147329		<20	0.03	<10	<10	55	<10	48
CC147330		<20	0.05	<10	<10	55	<10	50
CC147331		<20	0.03	<10	<10	50	<10	31
CC147332		<20	0.04	<10	<10	67	<10	31
CC147333		<20	0.03	<10	<10	71	<10	32
CC147334		<20	0.04	<10	<10	64	<10	35
CC147335		<20	0.05	<10	<10	74	<10	49
CC147336		<20	0.03	<10	<10	79	<10	35
CC147337		<20	0.03	<10	<10	78	<10	36
CC147338		<20	0.04	<10	<10	79	<10	39
CC147339		<20	0.02	<10	<10	56	<10	30
CC147340		<20	0.03	<10	<10	69	<10	33



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Page: 5 - A
 Total # Pages: 5 (A - C)
 Plus Appendix Pages
 Finalized Date: 6- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC147341		0.23	0.003	<0.2	1.70	45	<10	40	<0.5	<2	0.04	<0.5	28	441	53	3.39
CC147342		0.41	0.001	<0.2	1.99	10	<10	50	<0.5	<2	0.06	<0.5	22	255	61	3.41
CC147343		0.33	0.004	0.2	2.36	3	<10	70	<0.5	<2	0.07	<0.5	21	176	115	3.45
CC147344		0.22	0.002	0.3	2.05	7	<10	60	<0.5	<2	0.07	<0.5	15	142	85	2.74
CC147345		0.29	0.001	0.2	2.19	7	<10	70	<0.5	<2	0.05	<0.5	9	94	26	2.79
CC147346		0.36	0.001	0.4	1.91	4	<10	80	<0.5	<2	0.07	<0.5	12	90	29	2.26
CC147347		0.42	0.013	0.2	2.47	7	<10	80	<0.5	<2	0.07	<0.5	12	122	31	3.05
CC147348		0.24	0.008	<0.2	1.65	11	<10	120	<0.5	<2	0.10	<0.5	22	204	31	3.35
CC147349		0.29	0.007	0.3	1.80	11	<10	100	0.5	<2	0.06	<0.5	21	212	17	2.99
CC147350		0.54	0.006	0.3	1.55	10	<10	80	<0.5	<2	0.08	<0.5	27	379	33	3.66
CC147351		0.32	0.016	0.2	2.65	43	<10	170	1.0	<2	0.19	<0.5	30	172	35	4.93
CC147352		0.33	0.098	0.2	1.32	34	<10	80	0.6	<2	0.13	<0.5	41	343	24	4.62
CC147353		0.46	0.053	0.2	0.93	27	<10	70	<0.5	<2	0.09	<0.5	50	423	14	4.85
CC147354		0.31	0.017	0.2	2.13	32	<10	120	0.7	<2	0.11	<0.5	29	234	32	5.06
CC147355		0.23	0.082	0.2	3.01	37	<10	170	2.0	<2	0.26	<0.5	25	140	37	5.01
CC147356		0.19	0.013	0.3	1.88	31	<10	120	1.0	<2	0.20	<0.5	18	178	17	3.75
CC147357		0.41	0.006	0.4	2.12	31	<10	160	0.8	<2	0.17	<0.5	31	173	33	4.53
CC147358		0.35	0.006	0.3	2.39	44	<10	180	0.9	<2	0.35	0.5	19	129	47	3.91
CC147359		0.50	0.020	0.3	1.84	44	<10	140	0.7	<2	0.29	0.6	41	314	52	4.64
CC147360		0.29	0.007	0.2	2.25	29	<10	170	0.9	<2	0.33	0.6	20	149	69	4.18



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Page: 5 - B
 Total # Pages: 5 (A - C)
 Plus Appendix Pages
 Finalized Date: 6- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

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CC147341		<10	<1	0.01	<10	1.87	353	<1	0.01	451	150	3	<0.01	3	6	5
CC147342		10	<1	0.02	10	1.34	256	<1	0.02	217	220	4	<0.01	3	5	6
CC147343		10	<1	0.02	10	1.57	305	<1	0.02	97	200	4	<0.01	<2	6	7
CC147344		10	<1	0.03	10	1.13	205	<1	0.02	69	310	4	0.01	2	4	7
CC147345		10	<1	0.04	10	0.69	184	<1	0.02	44	410	6	0.01	<2	3	7
CC147346		10	<1	0.03	10	0.65	233	<1	0.02	50	420	7	0.02	<2	3	9
CC147347		10	<1	0.04	10	0.81	193	<1	0.02	65	470	7	0.02	2	4	9
CC147348		10	<1	0.03	20	0.93	352	<1	0.02	161	310	8	<0.01	3	4	11
CC147349		10	<1	0.04	10	0.76	313	<1	0.02	184	240	8	<0.01	<2	4	9
CC147350		<10	<1	0.03	10	1.08	402	<1	0.02	322	210	6	<0.01	2	5	8
CC147351		10	<1	0.33	10	2.55	931	<1	0.03	195	750	9	0.02	<2	8	11
CC147352		<10	<1	0.04	10	1.55	1180	<1	0.02	368	540	9	0.03	2	6	8
CC147353		<10	<1	0.04	10	2.40	1225	<1	0.02	394	420	6	0.02	2	7	6
CC147354		10	<1	0.23	10	1.67	786	<1	0.02	175	420	7	0.02	2	7	9
CC147355		10	<1	0.30	10	1.83	923	<1	0.02	265	490	16	0.05	<2	9	11
CC147356		10	<1	0.20	10	1.96	607	<1	0.03	112	420	9	0.03	2	5	10
CC147357		10	<1	0.25	10	2.41	871	<1	0.03	182	370	10	0.03	<2	7	12
CC147358		10	<1	0.22	10	1.15	756	<1	0.02	197	730	12	0.05	<2	7	18
CC147359		10	<1	0.15	10	1.57	1215	<1	0.02	304	680	13	0.04	3	6	14
CC147360		10	<1	0.19	10	1.11	694	<1	0.02	281	890	13	0.05	<2	6	20



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Page: 5 - C
 Total # Pages: 5 (A - C)
 Plus Appendix Pages
 Finalized Date: 6- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC147341		<20	0.03	<10	<10	57	<10	32
CC147342		<20	0.04	<10	<10	64	<10	41
CC147343		<20	0.04	<10	<10	78	<10	49
CC147344		<20	0.04	<10	<10	62	<10	42
CC147345		<20	0.03	<10	<10	65	<10	47
CC147346		<20	0.03	<10	<10	52	<10	39
CC147347		<20	0.03	<10	<10	59	<10	48
CC147348		<20	0.05	<10	<10	55	<10	55
CC147349		<20	0.04	<10	<10	48	<10	49
CC147350		<20	0.05	<10	<10	62	<10	38
CC147351		<20	0.20	<10	<10	96	<10	80
CC147352		<20	0.04	<10	<10	42	<10	39
CC147353		<20	0.03	<10	<10	32	<10	42
CC147354		<20	0.16	<10	<10	82	<10	97
CC147355		<20	0.24	<10	<10	115	<10	116
CC147356		<20	0.18	<10	<10	77	<10	105
CC147357		<20	0.18	<10	<10	83	<10	78
CC147358		<20	0.10	<10	<10	63	<10	119
CC147359		<20	0.07	<10	<10	64	10	107
CC147360		<20	0.08	<10	<10	67	<10	115



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**Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 6- AUG- 2011
Account: F**

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123808

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.



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Page: 1
Finalized Date: 9- AUG- 2011
Account: F

CERTIFICATE WH11123809

Project: Wolverine- Has/Vivi

P.O. No.:

This report is for 171 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 6 (A - C)
Plus Appendix Pages
Finalized Date: 9- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	Au- ICP21 Au Check ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
CC147361		0.20	0.008		<0.2	1.29	16	<10	150	0.5	<2	0.12	<0.5	14	171	14
CC147362		0.23	0.050		<0.2	1.14	19	<10	90	<0.5	<2	0.06	<0.5	83	418	17
CC147363		0.17	0.005		<0.2	2.44	26	<10	130	1.2	<2	0.08	<0.5	21	160	39
CC147364		0.21	0.007		<0.2	1.87	16	<10	150	<0.5	<2	0.10	<0.5	16	174	57
CC147365		0.20	0.003		0.2	2.63	3	<10	210	<0.5	<2	0.37	<0.5	28	233	113
CC147366		0.34	0.003		0.2	3.46	16	<10	290	0.6	<2	0.50	<0.5	29	223	367
CC147367		0.29	0.002		<0.2	2.14	11	<10	150	0.5	<2	0.18	<0.5	28	215	30
CC147368		0.28	0.006		<0.2	1.36	9	<10	100	<0.5	<2	0.10	0.5	64	286	25
CC147369		0.25	<0.001		<0.2	0.89	<2	<10	60	<0.5	<2	0.08	<0.5	12	122	37
CC147370		0.20	0.003		<0.2	1.56	11	<10	150	0.5	<2	0.29	<0.5	60	310	28
CC147371		0.30	<0.001		<0.2	0.90	<2	<10	100	<0.5	<2	0.12	<0.5	16	80	30
CC147372		0.44	0.002		<0.2	1.80	3	<10	70	<0.5	<2	0.09	<0.5	24	287	53
CC147373		0.16	0.001		<0.2	1.16	<2	<10	70	<0.5	<2	0.09	<0.5	8	127	76
CC147374		0.20	0.001		<0.2	1.65	10	<10	80	<0.5	<2	0.10	<0.5	25	334	74
CC147375		0.26	0.023		<0.2	1.95	2	<10	130	<0.5	<2	0.19	<0.5	17	220	60
CC147376		0.41	0.001		<0.2	2.93	8	<10	220	0.5	<2	0.12	<0.5	35	212	82
CC147377		0.17	0.002		<0.2	1.56	9	<10	50	<0.5	<2	0.08	<0.5	11	106	36
CC147378		0.23	0.001		<0.2	1.40	<2	<10	70	<0.5	<2	0.09	<0.5	10	49	25
CC147379		0.28	0.002		<0.2	1.36	10	<10	60	<0.5	<2	0.07	<0.5	9	122	15
CC147380		0.41	0.004		<0.2	1.44	5	<10	60	<0.5	<2	0.14	<0.5	20	211	38
CC147381		0.18	<0.001		0.2	0.67	<2	<10	40	<0.5	<2	0.11	<0.5	4	69	10
CC147382		0.29	<0.001		0.2	1.17	5	<10	40	<0.5	<2	0.05	<0.5	7	88	12
CC147383		0.30	0.002		<0.2	1.14	5	<10	40	<0.5	<2	0.06	<0.5	9	174	15
CC147384		0.29	0.006		<0.2	2.13	37	<10	70	<0.5	<2	0.09	<0.5	29	308	43
CC147385		0.35	0.009		0.4	2.09	72	<10	190	<0.5	<2	0.23	<0.5	47	370	255
CC147386		0.27	0.016		<0.2	1.34	11	<10	60	<0.5	<2	0.04	<0.5	29	444	11
CC147387		0.26	0.024		<0.2	0.68	10	<10	70	<0.5	<2	0.05	<0.5	35	450	8
CC147388		0.47	0.031		<0.2	0.94	15	<10	50	<0.5	<2	0.04	<0.5	35	530	21
CC147389		0.28	0.131		0.4	0.89	64	<10	90	0.6	<2	0.08	<0.5	75	472	22
CC147390		0.43	0.014		<0.2	1.01	45	<10	40	<0.5	<2	0.05	<0.5	53	500	38
CC147391		0.23	0.033		<0.2	0.66	40	<10	120	0.5	<2	0.08	<0.5	93	489	11
CC147392		0.34	0.004		<0.2	1.25	10	<10	70	<0.5	<2	0.06	<0.5	25	404	17
CC147393		0.36	0.003		<0.2	1.11	12	<10	60	<0.5	<2	0.06	<0.5	29	367	19
CC147394		0.43	0.006		<0.2	1.26	5	<10	60	<0.5	<2	0.10	<0.5	27	336	36
CC147395		0.51	0.020		0.2	1.86	15	<10	110	<0.5	<2	0.14	<0.5	28	348	89
CC147396		0.34	0.014		0.2	1.03	11	<10	70	<0.5	<2	0.07	<0.5	45	601	23
CC147397		0.35	0.012		<0.2	0.83	9	<10	70	<0.5	<2	0.09	<0.5	34	549	20
CC147398		0.33	0.008		0.2	1.26	14	<10	130	<0.5	<2	0.13	<0.5	28	289	22
CC147399		0.29	0.016		<0.2	1.56	11	<10	130	<0.5	<2	0.09	<0.5	18	285	14
CC147400		0.33	0.093		<0.2	1.23	19	<10	100	0.5	<2	0.07	<0.5	32	312	19



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Page: 2 - B
Total # Pages: 6 (A - C)
Plus Appendix Pages
Finalized Date: 9- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	ME- ICP41 Fe %	ME- ICP41 Ga ppm	ME- ICP41 Hg ppm	ME- ICP41 K %	ME- ICP41 La ppm	ME- ICP41 Mg %	ME- ICP41 Mn ppm	ME- ICP41 Mo ppm	ME- ICP41 Na %	ME- ICP41 Ni ppm	ME- ICP41 P ppm	ME- ICP41 Pb ppm	ME- ICP41 S %	ME- ICP41 Sb ppm	ME- ICP41 Sc ppm
CC147361		3.28	10	<1	0.15	10	1.07	334	<1	0.02	106	340	9	0.02	<2	4
CC147362		6.95	<10	<1	0.04	10	5.44	1165	<1	0.02	703	490	11	0.02	<2	5
CC147363		4.37	10	<1	0.12	10	1.21	390	<1	0.02	182	230	13	0.03	<2	6
CC147364		3.58	10	<1	0.09	10	1.00	400	<1	0.02	147	400	11	0.03	<2	6
CC147365		3.53	10	1	0.05	10	2.00	477	<1	0.03	464	880	5	0.06	2	6
CC147366		4.35	10	1	0.08	10	2.25	501	<1	0.03	692	1200	9	0.08	<2	10
CC147367		4.82	10	<1	0.25	10	2.33	548	<1	0.03	272	370	10	0.03	<2	8
CC147368		5.41	<10	<1	0.09	10	6.55	996	<1	0.02	589	220	16	0.02	<2	7
CC147369		1.43	<10	<1	0.03	<10	0.73	185	<1	0.03	160	340	<2	0.03	<2	1
CC147370		4.86	<10	<1	0.13	10	4.89	866	<1	0.03	582	290	12	0.03	<2	8
CC147371		1.22	<10	<1	0.03	<10	0.60	295	<1	0.04	186	490	<2	0.03	<2	2
CC147372		3.50	<10	<1	0.02	10	2.37	300	<1	0.02	366	210	3	0.02	<2	4
CC147373		1.36	<10	<1	0.02	<10	0.73	77	<1	0.02	147	250	<2	0.02	<2	2
CC147374		3.38	<10	<1	0.02	<10	1.80	531	<1	0.02	264	230	<2	0.02	<2	5
CC147375		2.65	<10	<1	0.04	10	1.59	257	<1	0.03	265	390	2	0.03	<2	4
CC147376		3.78	10	<1	0.04	10	1.36	798	<1	0.02	298	610	7	0.03	<2	5
CC147377		2.43	10	1	0.03	10	0.80	168	<1	0.02	96	260	4	0.02	<2	2
CC147378		1.45	<10	<1	0.03	<10	0.58	181	<1	0.04	75	240	<2	0.02	<2	2
CC147379		2.42	10	<1	0.04	10	0.63	193	<1	0.02	82	190	7	0.02	<2	3
CC147380		2.16	<10	<1	0.02	10	1.54	273	<1	0.03	209	200	<2	0.02	<2	4
CC147381		0.63	<10	<1	0.02	<10	0.51	43	<1	0.03	58	230	<2	0.03	<2	1
CC147382		1.15	<10	<1	0.02	<10	0.62	77	<1	0.01	76	170	<2	0.01	<2	2
CC147383		1.68	<10	<1	0.02	<10	1.02	98	<1	0.02	98	420	<2	0.04	<2	1
CC147384		4.20	10	<1	0.02	<10	2.78	480	<1	0.02	281	250	<2	0.02	<2	6
CC147385		4.87	<10	<1	0.07	10	1.81	1370	<1	0.01	417	730	9	0.03	<2	11
CC147386		3.97	<10	<1	0.03	10	1.18	514	<1	<0.01	236	290	4	0.01	2	5
CC147387		3.66	<10	<1	0.02	10	1.29	860	<1	<0.01	205	290	2	0.01	<2	4
CC147388		4.37	<10	<1	0.02	<10	1.34	684	<1	<0.01	372	270	3	0.01	<2	6
CC147389		7.60	<10	<1	0.04	10	5.26	1790	<1	<0.01	771	490	4	0.01	<2	11
CC147390		4.95	<10	<1	0.02	10	3.30	1200	<1	<0.01	650	170	5	<0.01	<2	10
CC147391		8.46	<10	<1	0.02	10	6.08	2710	<1	<0.01	737	580	3	0.02	2	12
CC147392		4.17	<10	<1	0.02	10	1.32	400	<1	<0.01	278	370	4	0.01	2	3
CC147393		3.49	<10	<1	0.02	10	1.50	553	<1	<0.01	365	250	3	<0.01	<2	4
CC147394		3.69	<10	<1	0.02	10	1.73	458	<1	0.01	295	200	3	<0.01	<2	5
CC147395		4.37	<10	<1	0.05	10	1.70	537	<1	0.01	222	390	4	0.01	<2	6
CC147396		4.61	<10	<1	0.03	10	1.80	1000	<1	<0.01	439	320	4	0.01	<2	5
CC147397		3.62	<10	<1	0.03	10	1.43	610	<1	<0.01	379	310	3	<0.01	2	5
CC147398		3.65	<10	<1	0.04	20	1.03	702	<1	0.01	289	450	7	<0.01	<2	6
CC147399		3.28	<10	1	0.04	10	0.99	294	<1	0.01	230	310	7	0.01	<2	4
CC147400		3.80	<10	<1	0.04	20	0.99	611	<1	<0.01	341	240	9	0.01	<2	5



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Page: 2 - C
Total # Pages: 6 (A - C)
Plus Appendix Pages
Finalized Date: 9- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Sr	Th	Ti	Tl	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC147361		12	<20	0.13	<10	<10	76	<10
CC147362		8	<20	0.05	<10	<10	59	<10
CC147363		11	<20	0.15	<10	<10	85	<10
CC147364		10	<20	0.14	<10	<10	75	<10
CC147365		26	<20	0.04	<10	<10	53	<10
CC147366		27	<20	0.04	<10	<10	60	<10
CC147367		12	<20	0.14	<10	<10	71	<10
CC147368		10	<20	0.08	<10	<10	56	<10
CC147369		9	<20	0.02	<10	<10	25	<10
CC147370		15	<20	0.09	<10	<10	59	<10
CC147371		12	<20	0.02	<10	<10	23	<10
CC147372		9	<20	0.04	<10	<10	52	<10
CC147373		11	<20	0.02	<10	<10	26	<10
CC147374		9	<20	0.02	<10	<10	69	<10
CC147375		15	<20	0.03	<10	<10	52	<10
CC147376		15	<20	0.03	<10	<10	66	<10
CC147377		8	<20	0.04	<10	<10	98	<10
CC147378		10	<20	0.03	<10	<10	40	<10
CC147379		8	<20	0.05	<10	<10	63	<10
CC147380		9	<20	0.03	<10	<10	45	<10
CC147381		10	<20	0.01	<10	<10	17	<10
CC147382		9	<20	0.03	<10	<10	29	<10
CC147383		6	<20	0.02	<10	<10	65	<10
CC147384		7	<20	0.04	<10	<10	91	<10
CC147385		12	<20	0.04	<10	<10	141	<10
CC147386		6	<20	0.05	<10	<10	48	<10
CC147387		5	<20	0.03	<10	<10	34	<10
CC147388		4	<20	0.03	<10	<10	38	<10
CC147389		5	<20	0.04	<10	<10	36	<10
CC147390		4	<20	0.02	<10	<10	42	<10
CC147391		5	<20	0.01	<10	<10	23	<10
CC147392		6	<20	0.03	<10	<10	42	<10
CC147393		6	<20	0.03	<10	<10	43	<10
CC147394		5	<20	0.03	<10	<10	72	<10
CC147395		8	<20	0.04	<10	<10	113	<10
CC147396		7	<20	0.03	<10	<10	44	<10
CC147397		8	<20	0.03	<10	<10	37	<10
CC147398		12	<20	0.05	<10	<10	46	<10
CC147399		9	<20	0.04	<10	<10	65	<10
CC147400		8	<20	0.05	<10	<10	40	<10



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Page: 3 - A
Total # Pages: 6 (A - C)
Plus Appendix Pages
Finalized Date: 9- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	Au- ICP21 Au Check ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
CC147401		0.27	0.037		<0.2	2.27	31	<10	150	0.6	<2	0.26	<0.5	28	210	12
CC147402		0.25	0.004		<0.2	1.62	15	<10	100	0.6	<2	0.09	<0.5	15	127	11
CC147403		0.27	0.042		<0.2	1.75	31	<10	110	0.5	<2	0.07	<0.5	22	226	15
CC147404		0.18	0.011		<0.2	2.13	26	<10	120	0.7	<2	0.18	<0.5	23	189	26
CC147405		0.15	0.008		<0.2	1.42	44	<10	100	0.5	<2	0.24	<0.5	16	233	13
CC147406		0.38	0.056		<0.2	1.35	70	<10	90	0.6	<2	0.14	<0.5	36	426	13
CC147407		0.37	0.025		<0.2	1.78	49	<10	120	0.7	<2	0.11	<0.5	41	298	17
CC147408		0.42	0.101		<0.2	1.49	55	<10	70	0.7	<2	0.07	<0.5	41	466	15
CC147409		0.26	0.084		<0.2	1.19	76	<10	60	0.7	<2	0.12	<0.5	45	389	17
CC147410		0.25	0.017		<0.2	1.20	56	<10	110	0.6	<2	0.07	<0.5	51	293	13
CC147411		0.23	0.057		<0.2	1.03	47	<10	70	0.5	<2	0.07	<0.5	46	408	14
CC147412		0.13	NSS		0.2	0.80	129	<10	110	0.6	<2	0.07	<0.5	97	457	11
CC147413		0.31	0.056		<0.2	1.12	83	<10	120	0.6	<2	0.08	<0.5	84	412	9
CC147414		0.23	0.043		<0.2	1.03	31	<10	100	0.6	<2	0.06	<0.5	92	511	11
CC147415		0.25	0.027		<0.2	0.91	10	<10	70	<0.5	<2	0.06	<0.5	66	436	9
CC147416		0.27	0.504		<0.2	0.90	12	<10	80	<0.5	<2	0.04	<0.5	39	538	5
CC147417		0.25	0.075		0.2	0.86	13	<10	70	<0.5	<2	0.07	<0.5	41	444	12
CC147418		0.37	0.060		<0.2	1.39	44	<10	100	0.6	<2	0.05	<0.5	67	831	15
CC147419		0.45	0.022		<0.2	0.92	16	<10	70	<0.5	<2	0.04	<0.5	31	331	9
CC147420		0.28	0.048		<0.2	1.16	84	<10	70	0.5	<2	0.03	<0.5	55	422	13
CC147421		0.38	0.031		0.2	1.06	46	<10	90	0.5	<2	0.04	<0.5	53	342	17
CC147422		0.31	0.033		<0.2	0.83	8	<10	100	<0.5	<2	0.03	<0.5	33	276	5
CC147423		0.40	0.026		<0.2	1.21	11	<10	80	<0.5	<2	0.05	<0.5	24	215	16
CC147424		0.19	0.008		<0.2	0.88	4	<10	60	<0.5	<2	0.06	<0.5	15	203	7
CC147425		0.45	0.027		0.2	0.84	7	<10	60	<0.5	<2	0.04	<0.5	41	445	24
CC147426		0.22	0.058		0.2	1.06	10	<10	90	<0.5	<2	0.06	0.5	107	619	28
CC147427		0.44	0.013		<0.2	0.85	8	<10	80	<0.5	<2	0.05	<0.5	57	612	18
CC147428		0.58	0.046		<0.2	1.49	11	<10	70	<0.5	<2	0.07	<0.5	15	377	11
CC147429		0.42	0.012		<0.2	1.43	5	<10	70	<0.5	<2	0.07	<0.5	14	202	10
CC147430		0.35	0.072		<0.2	1.15	13	<10	90	<0.5	<2	0.11	<0.5	38	509	16
CC147431		0.33	0.038		0.3	1.65	32	<10	150	<0.5	<2	0.16	<0.5	19	340	16
CC147432		0.37	0.040		<0.2	1.39	16	<10	100	0.5	<2	0.06	<0.5	42	454	21
CC147433		0.26	0.030		<0.2	1.24	16	<10	80	<0.5	<2	0.05	<0.5	28	287	13
CC147434		0.30	0.098		<0.2	1.30	24	<10	80	0.5	<2	0.08	<0.5	30	250	15
CC147435		0.27	1.275	0.080	<0.2	1.17	39	<10	120	0.5	<2	0.07	<0.5	47	396	23
CC147436		0.25	0.008		<0.2	1.35	57	<10	100	0.5	2	0.03	<0.5	50	418	15
CC147437		0.31	0.009		<0.2	1.28	41	<10	100	<0.5	<2	0.04	0.5	47	391	12
CC147438		0.23	0.342		<0.2	1.63	40	<10	90	0.6	<2	0.06	<0.5	36	348	19
CC147439		0.39	0.009		<0.2	1.19	26	<10	110	<0.5	<2	0.06	<0.5	20	247	12
CC147440		0.42	0.026		<0.2	0.89	59	<10	80	<0.5	<2	0.05	<0.5	35	264	15



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Page: 3 - B
Total # Pages: 6 (A - C)
Plus Appendix Pages
Finalized Date: 9- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	ME- ICP41 Fe %	ME- ICP41 Ga ppm	ME- ICP41 Hg ppm	ME- ICP41 K %	ME- ICP41 La ppm	ME- ICP41 Mg %	ME- ICP41 Mn ppm	ME- ICP41 Mo ppm	ME- ICP41 Na %	ME- ICP41 Ni ppm	ME- ICP41 P ppm	ME- ICP41 Pb ppm	ME- ICP41 S %	ME- ICP41 Sb ppm	ME- ICP41 Sc ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC147401		4.98	10	1	0.10	10	2.16	1120	<1	0.04	147	660	10	0.02	<2	7
CC147402		3.13	10	<1	0.11	10	1.09	441	<1	0.01	68	350	9	0.01	<2	4
CC147403		5.27	10	1	0.08	10	0.89	658	<1	0.01	86	430	10	0.01	<2	5
CC147404		4.08	10	<1	0.17	10	2.19	613	<1	0.02	175	680	8	0.01	<2	7
CC147405		2.93	<10	<1	0.10	10	1.94	817	<1	0.01	130	1480	6	0.07	<2	3
CC147406		4.81	<10	<1	0.04	10	1.01	1010	<1	<0.01	272	990	9	0.05	<2	7
CC147407		6.50	<10	<1	0.06	10	1.95	1080	<1	0.01	182	720	8	0.03	<2	7
CC147408		5.62	<10	<1	0.03	10	0.92	1070	<1	0.01	275	410	13	0.01	<2	5
CC147409		5.58	<10	<1	0.04	10	1.68	987	<1	<0.01	450	570	9	0.03	<2	7
CC147410		5.80	<10	<1	0.03	10	1.68	1420	<1	<0.01	354	560	10	0.03	2	4
CC147411		5.06	<10	1	0.03	10	1.91	1000	<1	<0.01	395	350	5	0.01	<2	6
CC147412		8.85	<10	<1	0.02	<10	4.80	2650	<1	<0.01	747	650	4	0.01	2	8
CC147413		8.01	<10	1	0.03	10	4.30	2320	<1	<0.01	588	610	8	0.02	<2	9
CC147414		8.35	<10	<1	0.02	<10	4.53	2200	<1	<0.01	486	680	3	0.01	<2	8
CC147415		5.08	<10	<1	0.03	10	4.64	1950	<1	<0.01	364	400	5	0.01	<2	8
CC147416		4.65	<10	<1	0.03	10	0.80	875	<1	<0.01	184	480	5	0.01	<2	5
CC147417		4.21	<10	<1	0.03	10	1.54	992	<1	<0.01	336	300	5	0.01	<2	8
CC147418		8.62	<10	<1	0.03	10	1.86	1910	<1	<0.01	508	450	4	0.01	3	11
CC147419		3.64	<10	<1	0.02	10	0.69	895	<1	0.01	188	320	3	0.01	<2	4
CC147420		5.42	<10	<1	0.03	10	1.10	1200	<1	<0.01	532	290	4	0.01	<2	7
CC147421		5.34	<10	<1	0.03	10	1.57	1305	<1	<0.01	597	280	5	0.01	<2	8
CC147422		3.68	<10	<1	0.02	10	0.72	1240	<1	<0.01	184	300	4	0.02	<2	3
CC147423		3.60	<10	<1	0.03	10	0.66	491	<1	<0.01	164	230	6	0.01	2	4
CC147424		2.44	<10	<1	0.02	<10	0.59	567	<1	0.02	134	620	3	0.04	<2	3
CC147425		4.84	<10	<1	0.03	10	1.20	888	<1	<0.01	513	320	5	0.01	<2	8
CC147426		8.92	<10	<1	0.02	<10	5.22	2250	<1	<0.01	584	700	6	0.02	2	8
CC147427		4.82	<10	<1	0.03	10	3.74	761	<1	<0.01	742	340	5	0.02	2	6
CC147428		4.27	<10	<1	0.03	10	0.89	248	<1	<0.01	175	420	6	0.02	2	4
CC147429		3.16	<10	<1	0.03	10	0.92	208	<1	<0.01	125	190	7	0.01	<2	3
CC147430		5.29	<10	<1	0.03	10	1.62	869	<1	<0.01	383	650	6	0.04	2	7
CC147431		3.71	<10	<1	0.04	10	0.92	626	<1	0.01	226	1280	6	0.08	<2	5
CC147432		4.99	<10	<1	0.04	10	1.51	961	<1	<0.01	356	380	8	0.02	<2	7
CC147433		3.85	<10	1	0.03	10	0.75	630	<1	<0.01	227	310	8	0.01	3	4
CC147434		4.22	<10	<1	0.04	10	0.86	668	1	<0.01	297	450	7	0.01	<2	4
CC147435		5.54	<10	<1	0.04	10	1.71	1335	<1	0.01	520	360	6	0.01	<2	9
CC147436		6.43	<10	<1	0.02	10	0.85	1115	<1	<0.01	437	390	8	0.02	3	5
CC147437		5.58	<10	<1	0.03	10	0.91	1250	<1	<0.01	379	320	11	0.01	4	5
CC147438		5.64	<10	<1	0.03	10	1.04	838	<1	<0.01	295	390	41	0.02	<2	5
CC147439		3.46	<10	<1	0.03	10	0.74	429	<1	<0.01	223	500	10	0.02	<2	3
CC147440		4.66	<10	<1	0.02	10	1.14	842	<1	<0.01	362	290	10	0.01	<2	6



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Page: 3 - C
 Total # Pages: 6 (A - C)
 Plus Appendix Pages
 Finalized Date: 9- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Sr	Th	Ti	Tl	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC147401		29	<20	0.17	<10	<10	130	<10
CC147402		8	<20	0.11	<10	<10	57	<10
CC147403		7	<20	0.13	<10	<10	85	<10
CC147404		12	<20	0.16	<10	<10	80	<10
CC147405		15	<20	0.04	<10	<10	34	<10
CC147406		11	<20	0.04	<10	<10	38	<10
CC147407		12	<20	0.07	<10	<10	48	<10
CC147408		7	<20	0.06	<10	<10	49	<10
CC147409		8	<20	0.04	<10	<10	39	<10
CC147410		8	<20	0.04	<10	<10	37	<10
CC147411		6	<20	0.05	<10	<10	38	<10
CC147412		5	<20	0.03	<10	<10	34	<10
CC147413		6	<20	0.03	<10	<10	33	<10
CC147414		4	<20	0.03	<10	<10	32	<10
CC147415		5	<20	0.03	<10	<10	28	<10
CC147416		5	<20	0.04	<10	<10	46	<10
CC147417		5	<20	0.03	<10	<10	31	<10
CC147418		6	<20	0.04	<10	<10	54	<10
CC147419		8	<20	0.04	<10	<10	31	<10
CC147420		4	<20	0.03	<10	<10	35	<10
CC147421		6	<20	0.04	<10	<10	34	<10
CC147422		6	<20	0.03	<10	<10	31	<10
CC147423		9	<20	0.04	<10	<10	36	<10
CC147424		9	<20	0.02	<10	<10	17	<10
CC147425		7	<20	0.03	<10	<10	34	<10
CC147426		7	<20	0.03	<10	<10	40	<10
CC147427		8	<20	0.03	<10	<10	39	<10
CC147428		8	<20	0.06	<10	<10	50	<10
CC147429		8	<20	0.06	<10	<10	45	<10
CC147430		10	<20	0.04	<10	<10	40	<10
CC147431		19	<20	0.03	<10	<10	32	<10
CC147432		8	<20	0.06	<10	<10	50	<10
CC147433		9	<20	0.04	<10	<10	39	<10
CC147434		10	<20	0.04	<10	<10	38	<10
CC147435		9	<20	0.05	<10	<10	40	<10
CC147436		7	<20	0.04	<10	<10	41	<10
CC147437		8	<20	0.04	<10	<10	45	<10
CC147438		9	<20	0.06	<10	<10	50	<10
CC147439		10	<20	0.03	<10	<10	36	<10
CC147440		8	<20	0.03	<10	<10	29	<10



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Page: 4 - A
Total # Pages: 6 (A - C)
Plus Appendix Pages
Finalized Date: 9- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	Au- ICP21 Au Check ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
CC147441		0.34	0.285		0.2	1.05	41	<10	90	<0.5	<2	0.05	<0.5	33	312	12
CC147442		0.33	0.185		<0.2	0.77	27	<10	80	<0.5	<2	0.04	<0.5	36	344	9
CC147443		0.44	0.010		<0.2	1.22	21	<10	110	<0.5	<2	0.05	<0.5	22	295	10
CC147444		0.37	0.136		<0.2	1.38	24	<10	100	0.5	<2	0.06	<0.5	29	349	12
CC147445		0.24	0.391		0.2	1.74	43	<10	180	0.7	<2	0.14	0.7	49	303	20
CC147446		0.21	0.016		0.2	0.93	42	<10	130	0.5	<2	0.09	0.5	73	364	14
CC147447		0.33	1.320	0.762	0.2	0.94	28	<10	90	<0.5	<2	0.07	<0.5	48	440	13
CC147448		0.17	NSS		0.2	0.77	32	<10	70	<0.5	<2	0.05	<0.5	52	457	10
CC147449		0.28	0.077		0.5	0.85	29	<10	100	<0.5	<2	0.05	<0.5	56	450	8
CC147450		0.25	0.435		<0.2	0.94	33	<10	100	<0.5	<2	0.07	<0.5	67	517	9
CC147480		0.43	0.080		0.2	0.83	15	<10	60	<0.5	<2	0.06	<0.5	42	413	30
CC147481		0.42	0.162		<0.2	0.93	10	<10	90	<0.5	<2	0.05	<0.5	63	545	24
CC147482		0.33	0.062		<0.2	0.98	24	<10	100	<0.5	<2	0.09	<0.5	43	321	20
CC147483		0.17	0.077		<0.2	1.00	46	<10	120	<0.5	<2	0.06	<0.5	66	359	19
CC147484		0.28	0.075		0.2	0.92	60	<10	100	<0.5	<2	0.06	<0.5	60	308	19
CC147485		0.40	0.138		<0.2	0.68	108	<10	120	0.5	<2	0.07	0.5	102	376	26
CC147486		0.51	0.245		0.2	1.12	52	<10	130	0.5	<2	0.08	0.5	58	290	26
CC147487		0.33	0.105		0.2	1.06	36	<10	130	0.5	2	0.11	<0.5	55	408	31
CC147488		0.35	0.149		0.2	1.23	25	<10	80	0.5	<2	0.07	<0.5	49	331	18
CC147489		0.22	0.178		<0.2	1.24	30	<10	110	0.5	<2	0.07	0.5	78	491	16
CC147490		0.42	0.106		<0.2	1.00	50	<10	90	<0.5	<2	0.08	<0.5	46	273	23
CC147491		0.29	0.109		<0.2	0.55	34	<10	110	<0.5	<2	0.09	<0.5	93	432	12
CC147492		0.39	0.029		<0.2	1.01	44	<10	80	0.5	<2	0.06	<0.5	49	436	12
CC147493		0.39	0.181		0.2	0.80	43	<10	80	<0.5	<2	0.05	<0.5	62	425	12
CC147494		0.35	0.069		<0.2	1.58	214	<10	140	0.6	<2	0.10	<0.5	25	379	12
CC147495		0.33	0.344		<0.2	0.69	104	<10	60	<0.5	<2	0.12	<0.5	51	433	12
CC147496	Destroyed															
CC147497		0.41	0.110		<0.2	0.79	81	<10	90	0.5	<2	0.06	<0.5	56	482	16
CC147498		0.27	0.072		<0.2	1.05	32	<10	60	<0.5	<2	0.05	<0.5	37	418	9
CC147499		0.35	0.805		<0.2	0.76	32	<10	60	<0.5	<2	0.05	<0.5	50	487	9
CC147500		0.21	0.022		<0.2	1.46	44	<10	110	0.6	<2	0.11	<0.5	54	340	23
CC147501		0.19	0.004		<0.2	1.03	5	<10	80	<0.5	<2	0.05	<0.5	13	268	7
CC147502		0.53	0.004		<0.2	1.06	3	<10	80	<0.5	<2	0.08	<0.5	19	301	9
CC147503		0.25	0.132		<0.2	0.99	6	<10	80	<0.5	<2	0.06	<0.5	14	319	7
CC147504		0.21	0.002		<0.2	1.01	<2	<10	80	<0.5	<2	0.06	<0.5	9	218	6
CC147505		0.21	0.004		<0.2	0.50	8	<10	50	<0.5	<2	0.03	<0.5	31	685	6
CC147506		0.16	0.003		<0.2	0.83	9	<10	90	<0.5	<2	0.04	0.9	31	426	10
CC147507		0.23	0.004		<0.2	0.97	10	<10	130	<0.5	<2	0.06	0.5	16	569	14
CC147508		0.13	0.017		0.2	0.70	22	<10	70	<0.5	<2	0.05	<0.5	87	924	17
CC147509		0.29	0.005		<0.2	0.84	7	<10	60	<0.5	<2	0.11	<0.5	31	517	15



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Page: 4 - B
Total # Pages: 6 (A - C)
Plus Appendix Pages
Finalized Date: 9- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	ME- ICP41 Fe %	ME- ICP41 Ga ppm	ME- ICP41 Hg ppm	ME- ICP41 K %	ME- ICP41 La ppm	ME- ICP41 Mg %	ME- ICP41 Mn ppm	ME- ICP41 Mo ppm	ME- ICP41 Na %	ME- ICP41 Ni ppm	ME- ICP41 P ppm	ME- ICP41 Pb ppm	ME- ICP41 S %	ME- ICP41 Sb ppm	ME- ICP41 Sc ppm
CC147441		4.12	<10	<1	0.03	10	1.10	918	<1	<0.01	336	270	7	0.01	2	5
CC147442		3.93	<10	<1	0.02	10	1.11	888	<1	<0.01	296	300	5	0.01	<2	5
CC147443		4.35	<10	<1	0.04	10	0.69	589	<1	<0.01	172	470	6	0.03	<2	3
CC147444		4.76	<10	<1	0.03	10	1.05	672	<1	<0.01	233	360	9	0.02	<2	4
CC147445		6.61	<10	1	0.07	10	1.97	1595	<1	<0.01	255	1130	9	0.05	<2	5
CC147446		7.62	<10	<1	0.04	10	3.54	1910	<1	<0.01	446	620	6	0.02	2	9
CC147447		5.44	<10	<1	0.02	10	1.71	1270	<1	<0.01	360	450	6	0.02	<2	7
CC147448		5.38	<10	<1	0.02	<10	2.15	1315	<1	<0.01	390	320	5	0.01	<2	6
CC147449		5.48	<10	<1	0.02	<10	1.09	1815	<1	<0.01	352	460	6	0.03	<2	5
CC147450		6.76	<10	1	0.02	10	2.10	1655	<1	<0.01	410	570	7	0.03	2	6
CC147480		4.66	<10	<1	0.03	10	1.62	871	<1	<0.01	492	380	6	0.01	<2	8
CC147481		6.58	<10	<1	0.03	10	2.31	1550	<1	<0.01	608	460	4	0.01	<2	10
CC147482		4.75	<10	<1	0.04	10	1.96	1065	<1	0.01	406	330	7	0.01	2	7
CC147483		6.77	<10	<1	0.04	10	1.52	1675	<1	0.01	655	320	7	0.01	<2	10
CC147484		6.36	<10	1	0.03	10	1.89	1345	<1	0.01	738	330	7	0.01	2	9
CC147485		9.19	<10	<1	0.03	10	5.34	3110	<1	<0.01	1265	480	6	0.02	3	15
CC147486		5.98	<10	<1	0.05	10	1.48	1595	<1	<0.01	620	420	8	0.02	<2	9
CC147487		5.43	<10	<1	0.05	10	2.10	1360	<1	0.01	488	390	8	0.02	<2	9
CC147488		4.88	<10	<1	0.04	10	1.00	970	<1	<0.01	303	310	9	0.03	<2	6
CC147489		8.03	<10	<1	0.04	10	2.35	2300	<1	<0.01	373	720	6	0.04	2	9
CC147490		5.44	<10	1	0.04	10	1.93	1120	<1	<0.01	343	340	7	0.02	<2	7
CC147491		8.44	<10	<1	0.02	<10	7.51	2540	<1	<0.01	668	590	4	<0.01	3	12
CC147492		5.45	<10	<1	0.03	10	1.35	1130	<1	<0.01	376	400	6	<0.01	<2	8
CC147493		6.34	<10	<1	0.02	10	1.83	1555	<1	<0.01	490	480	5	<0.01	<2	11
CC147494		5.03	<10	1	0.05	10	1.13	759	<1	<0.01	257	1060	10	<0.01	2	7
CC147495		5.26	<10	<1	0.03	10	3.98	902	<1	<0.01	445	430	7	<0.01	2	8
CC147496																
CC147497		5.53	<10	<1	0.02	10	1.69	1445	<1	<0.01	433	340	6	<0.01	<2	10
CC147498		5.11	<10	<1	0.03	10	0.79	808	<1	<0.01	212	370	7	<0.01	<2	5
CC147499		5.18	<10	<1	0.02	<10	2.09	1225	<1	<0.01	391	290	5	<0.01	<2	7
CC147500		5.86	<10	<1	0.08	10	4.45	1410	<1	<0.01	336	450	9	<0.01	<2	6
CC147501		2.58	<10	<1	0.03	10	0.97	179	<1	<0.01	178	200	6	<0.01	<2	2
CC147502		2.61	<10	1	0.03	10	1.14	259	<1	<0.01	271	210	5	<0.01	<2	2
CC147503		2.82	<10	<1	0.03	10	1.06	199	<1	<0.01	202	220	6	<0.01	<2	2
CC147504		1.65	<10	<1	0.02	10	0.96	138	<1	<0.01	158	140	5	<0.01	<2	2
CC147505		3.80	<10	<1	0.02	<10	1.20	603	<1	<0.01	365	440	3	<0.01	<2	2
CC147506		3.58	<10	<1	0.03	10	1.13	1095	<1	<0.01	407	540	5	<0.01	<2	1
CC147507		3.55	<10	<1	0.05	10	0.87	427	1	<0.01	237	1120	9	0.02	2	1
CC147508		6.59	<10	<1	0.02	<10	5.03	1345	<1	<0.01	908	780	8	<0.01	<2	4
CC147509		3.41	<10	<1	0.03	10	1.80	398	<1	<0.01	471	260	5	<0.01	2	3



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Page: 4 - C
 Total # Pages: 6 (A - C)
 Plus Appendix Pages
 Finalized Date: 9- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Sr	Th	Ti	Tl	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC147441		8	<20	0.04	<10	<10	33	<10
CC147442		7	<20	0.03	<10	<10	29	<10
CC147443		9	<20	0.04	<10	<10	40	<10
CC147444		9	<20	0.04	<10	<10	42	<10
CC147445		15	<20	0.04	<10	<10	43	<10
CC147446		9	<20	0.03	<10	<10	35	<10
CC147447		8	<20	0.03	<10	<10	36	<10
CC147448		5	<20	0.03	<10	<10	31	<10
CC147449		7	<20	0.03	<10	<10	36	<10
CC147450		8	<20	0.03	<10	<10	41	<10
CC147480		6	<20	0.04	<10	<10	35	<10
CC147481		6	<20	0.03	<10	<10	38	<10
CC147482		10	<20	0.04	<10	<10	34	<10
CC147483		8	<20	0.04	<10	<10	32	<10
CC147484		7	<20	0.03	<10	<10	31	<10
CC147485		6	<20	0.03	<10	<10	30	<10
CC147486		6	<20	0.04	<10	<10	36	<10
CC147487		8	<20	0.05	<10	<10	39	<10
CC147488		7	<20	0.05	<10	<10	41	<10
CC147489		6	<20	0.04	<10	<10	44	<10
CC147490		7	<20	0.04	<10	<10	34	<10
CC147491		4	<20	0.02	<10	<10	25	<10
CC147492		4	<20	0.03	<10	<10	34	<10
CC147493		4	<20	0.03	<10	<10	29	<10
CC147494		12	<20	0.04	<10	<10	40	<10
CC147495		4	<20	0.03	<10	<10	29	<10
CC147496								
CC147497		5	<20	0.03	<10	<10	30	<10
CC147498		4	<20	0.05	<10	<10	38	<10
CC147499		3	<20	0.03	<10	<10	29	<10
CC147500		7	<20	0.08	<10	<10	58	<10
CC147501		7	<20	0.05	<10	<10	44	<10
CC147502		7	<20	0.04	<10	<10	33	<10
CC147503		6	<20	0.05	<10	<10	37	<10
CC147504		6	<20	0.04	<10	<10	29	<10
CC147505		2	<20	0.03	<10	<10	40	<10
CC147506		7	<20	0.03	<10	<10	32	<10
CC147507		9	<20	0.01	<10	<10	42	<10
CC147508		3	<20	0.02	<10	<10	47	<10
CC147509		8	<20	0.04	<10	<10	35	<10



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Page: 5 - A
Total # Pages: 6 (A - C)
Plus Appendix Pages
Finalized Date: 9- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	Au- ICP21 Au Check ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
CC147510		0.22	0.004		<0.2	1.14	9	<10	110	<0.5	<2	0.09	<0.5	26	327	17
CC147511		0.25	0.004		<0.2	1.72	13	<10	90	<0.5	2	0.08	<0.5	21	241	14
CC147512		0.30	0.003		<0.2	1.75	9	<10	70	<0.5	<2	0.07	<0.5	18	260	15
CC147513		0.43	0.005		<0.2	1.28	7	<10	70	<0.5	<2	0.07	<0.5	15	268	14
CC147514		0.34	0.004		<0.2	1.17	5	<10	70	<0.5	<2	0.07	<0.5	11	199	10
CC147515		0.24	0.001		<0.2	1.20	5	<10	70	<0.5	<2	0.07	<0.5	11	203	10
CC147516		0.32	0.010		<0.2	1.68	10	<10	70	<0.5	<2	0.06	<0.5	20	390	18
CC147517		0.26	0.005		<0.2	1.15	6	<10	80	<0.5	<2	0.10	<0.5	16	270	16
CC147518		0.43	1.370	0.008	<0.2	1.14	6	<10	80	<0.5	<2	0.06	<0.5	10	220	10
CC147519		0.33	0.003		0.2	1.16	3	<10	70	<0.5	<2	0.06	<0.5	11	175	12
CC147520		0.27	0.002		<0.2	1.75	5	<10	60	<0.5	<2	0.07	<0.5	11	204	16
CC147521		0.31	0.008		<0.2	1.47	7	<10	100	<0.5	<2	0.06	<0.5	12	180	12
CC147522		0.23	0.003		<0.2	1.21	6	<10	90	<0.5	<2	0.08	<0.5	20	225	17
CC147523		0.34	0.001		<0.2	1.91	7	<10	120	0.5	<2	0.08	<0.5	17	148	17
CC147524		0.38	0.003		<0.2	1.46	4	<10	90	<0.5	<2	0.05	<0.5	12	225	11
CC147525		0.25	0.002		<0.2	1.22	<2	<10	110	<0.5	<2	0.05	<0.5	5	142	5
CC147526		0.27	0.004		<0.2	1.34	6	<10	120	<0.5	<2	0.08	<0.5	13	117	17
CC147527		0.30	0.003		<0.2	1.41	5	<10	100	<0.5	<2	0.09	<0.5	12	149	18
CC147528		0.44	0.003		<0.2	1.67	3	<10	100	<0.5	<2	0.08	<0.5	13	141	15
CC147529		0.39	0.013		<0.2	1.50	6	<10	70	<0.5	<2	0.05	<0.5	8	112	14
CC147530		0.31	0.003		<0.2	1.61	3	<10	100	<0.5	<2	0.09	<0.5	12	139	15
CC147851		0.37	0.001		<0.2	1.31	6	<10	80	<0.5	<2	0.09	<0.5	14	231	11
CC147852		0.36	0.002		<0.2	1.44	5	<10	90	<0.5	<2	0.07	<0.5	20	285	11
CC147853		0.41	0.002		<0.2	1.43	5	<10	100	<0.5	<2	0.07	<0.5	29	421	13
CC147854		0.35	0.006		<0.2	1.23	9	<10	70	<0.5	<2	0.06	<0.5	13	232	8
CC147855		0.26	0.031		<0.2	0.98	11	<10	70	<0.5	<2	0.04	<0.5	30	532	11
CC147856		0.46	0.016		<0.2	1.10	10	<10	120	<0.5	<2	0.09	<0.5	40	783	27
CC147857		0.22	0.021		<0.2	0.81	11	<10	80	<0.5	<2	0.05	<0.5	48	673	12
CC147858		0.33	0.003		<0.2	1.21	6	<10	80	<0.5	<2	0.09	<0.5	25	384	16
CC147859		0.21	0.004		<0.2	0.96	5	<10	80	<0.5	<2	0.11	<0.5	23	314	13
CC147860		0.17	0.002		<0.2	1.02	6	<10	110	<0.5	<2	0.06	<0.5	24	297	10
CC147861		0.31	0.003		<0.2	1.18	3	<10	100	<0.5	<2	0.08	<0.5	18	248	14
CC147862		0.19	0.001		<0.2	1.07	3	<10	90	<0.5	<2	0.06	<0.5	14	238	9
CC147863		0.28	0.002		<0.2	1.77	6	<10	120	0.5	<2	0.09	<0.5	23	170	21
CC147864		0.28	0.003		<0.2	1.83	4	<10	80	<0.5	<2	0.06	<0.5	14	150	15
CC147865		0.46	0.005		<0.2	1.56	5	<10	70	<0.5	<2	0.08	<0.5	13	184	18
CC147866		0.46	0.009		<0.2	1.85	3	<10	70	<0.5	<2	0.07	<0.5	15	244	23
CC147867		0.47	0.004		<0.2	1.73	4	<10	80	<0.5	<2	0.07	<0.5	10	141	18
CC147868		0.33	1.060	0.004	<0.2	1.92	4	<10	70	<0.5	<2	0.07	<0.5	17	171	24
CC147869		0.37	0.011		<0.2	2.12	7	<10	90	<0.5	<2	0.08	<0.5	13	151	23



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Page: 5 - B
Total # Pages: 6 (A - C)
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CC147510		3.00	<10	<1	0.03	10	1.44	369	<1	<0.01	385	170	8	<0.01	2	3
CC147511		3.48	<10	<1	0.03	10	0.94	267	1	<0.01	244	340	9	<0.01	<2	3
CC147512		3.44	<10	<1	0.03	10	0.92	219	1	<0.01	229	410	9	<0.01	2	2
CC147513		2.64	<10	<1	0.03	10	0.98	207	<1	<0.01	238	250	7	<0.01	<2	2
CC147514		2.06	<10	<1	0.02	10	0.79	167	<1	<0.01	150	180	7	<0.01	<2	2
CC147515		2.07	<10	<1	0.02	10	0.81	165	<1	<0.01	150	180	6	<0.01	<2	2
CC147516		3.69	<10	1	0.03	10	1.42	217	<1	<0.01	325	240	6	<0.01	2	3
CC147517		2.63	<10	<1	0.03	10	1.11	252	<1	<0.01	248	200	6	<0.01	2	2
CC147518		1.98	<10	<1	0.03	10	0.87	155	<1	<0.01	155	170	7	<0.01	<2	2
CC147519		1.85	<10	1	0.03	10	0.81	172	<1	<0.01	119	300	7	<0.01	<2	1
CC147520		2.11	<10	1	0.03	10	0.81	149	<1	<0.01	109	400	6	<0.01	<2	1
CC147521		2.32	<10	1	0.03	10	0.74	168	1	<0.01	160	240	7	<0.01	<2	2
CC147522		2.48	<10	<1	0.03	10	1.17	282	<1	<0.01	250	200	6	<0.01	<2	2
CC147523		2.87	10	<1	0.03	10	0.73	206	<1	<0.01	215	450	10	0.02	<2	3
CC147524		2.21	10	<1	0.03	10	0.89	185	<1	<0.01	159	240	6	0.01	2	2
CC147525		1.06	10	<1	0.03	20	0.47	100	<1	<0.01	70	220	7	0.01	<2	1
CC147526		2.33	<10	<1	0.02	20	0.66	266	<1	<0.01	121	240	9	0.01	2	2
CC147527		2.15	<10	<1	0.02	20	0.75	195	<1	<0.01	149	270	5	0.01	<2	3
CC147528		2.32	10	<1	0.02	10	0.73	178	<1	<0.01	132	320	7	0.01	<2	2
CC147529		2.00	10	<1	0.04	10	0.57	142	<1	<0.01	90	350	7	0.02	<2	2
CC147530		2.32	10	<1	0.03	10	0.61	164	<1	<0.01	128	420	7	0.01	<2	2
CC147851		2.84	<10	<1	0.03	20	0.84	197	<1	<0.01	196	330	8	0.01	2	2
CC147852		3.19	<10	<1	0.04	10	1.19	253	<1	<0.01	279	280	8	0.01	2	2
CC147853		3.56	<10	<1	0.03	10	1.46	364	<1	<0.01	466	220	7	0.01	2	3
CC147854		2.49	10	<1	0.02	10	0.96	187	<1	<0.01	186	200	5	0.01	2	2
CC147855		3.93	10	<1	0.02	10	1.15	552	<1	<0.01	333	320	5	0.01	2	3
CC147856		4.62	<10	<1	0.02	10	1.76	741	<1	<0.01	600	500	7	0.02	2	4
CC147857		4.43	<10	<1	0.02	10	2.25	880	<1	<0.01	556	430	6	0.01	2	3
CC147858		3.36	<10	<1	0.02	10	1.76	352	<1	<0.01	433	230	6	0.01	2	3
CC147859		2.81	<10	<1	0.02	10	1.58	359	<1	<0.01	343	300	5	0.01	<2	2
CC147860		2.45	<10	<1	0.02	10	1.87	355	<1	<0.01	323	300	6	0.01	<2	2
CC147861		2.61	<10	<1	0.03	10	1.09	270	<1	<0.01	266	330	6	0.01	2	2
CC147862		2.05	<10	<1	0.03	10	1.11	229	<1	<0.01	190	210	7	0.01	2	2
CC147863		2.84	10	<1	0.05	10	1.05	348	<1	<0.01	271	410	9	0.01	2	3
CC147864		2.75	10	<1	0.03	10	0.69	199	<1	<0.01	141	390	7	0.02	<2	2
CC147865		2.40	<10	<1	0.02	10	0.78	201	<1	<0.01	162	280	7	0.01	2	2
CC147866		2.66	<10	<1	0.02	10	0.94	223	<1	<0.01	206	350	7	0.02	<2	3
CC147867		2.20	<10	<1	0.02	10	0.64	170	<1	<0.01	100	350	6	0.02	<2	2
CC147868		2.79	10	<1	0.02	10	0.80	201	<1	<0.01	160	380	6	0.01	2	3
CC147869		2.49	10	<1	0.02	10	0.68	204	<1	<0.01	117	460	8	0.02	<2	2



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Page: 5 - C
 Total # Pages: 6 (A - C)
 Plus Appendix Pages
 Finalized Date: 9- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Sr	Th	Ti	Tl	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC147510		8	<20	0.04	<10	<10	35	<10
CC147511		8	<20	0.04	<10	<10	42	<10
CC147512		7	<20	0.04	<10	<10	40	<10
CC147513		7	<20	0.04	<10	<10	33	<10
CC147514		7	<20	0.04	<10	<10	33	<10
CC147515		7	<20	0.04	<10	<10	33	<10
CC147516		6	<20	0.05	<10	<10	44	<10
CC147517		9	<20	0.04	<10	<10	33	<10
CC147518		6	<20	0.04	<10	<10	35	<10
CC147519		6	<20	0.03	<10	<10	34	<10
CC147520		6	<20	0.03	<10	<10	36	<10
CC147521		7	<20	0.03	<10	<10	36	<10
CC147522		7	<20	0.04	<10	<10	33	<10
CC147523		7	<20	0.04	<10	<10	40	<10
CC147524		5	<20	0.04	<10	<10	37	<10
CC147525		7	<20	0.04	<10	<10	33	<10
CC147526		9	<20	0.04	<10	<10	36	<10
CC147527		7	<20	0.04	<10	<10	34	<10
CC147528		7	<20	0.04	<10	<10	38	<10
CC147529		6	<20	0.04	<10	<10	39	<10
CC147530		8	<20	0.03	<10	<10	38	<10
CC147851		8	<20	0.05	<10	<10	40	<10
CC147852		8	<20	0.05	<10	<10	40	<10
CC147853		8	<20	0.05	<10	<10	39	<10
CC147854		7	<20	0.05	<10	<10	40	<10
CC147855		4	<20	0.06	<10	<10	55	<10
CC147856		8	<20	0.04	<10	<10	49	<10
CC147857		4	<20	0.04	<10	<10	42	<10
CC147858		8	<20	0.05	<10	<10	38	<10
CC147859		8	<20	0.04	<10	<10	32	<10
CC147860		6	<20	0.03	<10	<10	31	<10
CC147861		8	<20	0.04	<10	<10	35	<10
CC147862		7	<20	0.05	<10	<10	37	<10
CC147863		9	<20	0.04	<10	<10	38	<10
CC147864		6	<20	0.04	<10	<10	38	<10
CC147865		6	<20	0.04	<10	<10	38	<10
CC147866		5	<20	0.04	<10	<10	39	<10
CC147867		6	<20	0.03	<10	<10	38	<10
CC147868		6	<20	0.04	<10	<10	41	<10
CC147869		6	<20	0.04	<10	<10	42	<10



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Page: 6 - A
 Total # Pages: 6 (A - C)
 Plus Appendix Pages
 Finalized Date: 9- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	Au- ICP21 Au Check ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
CC147870		0.49	0.011		<0.2	1.81	4	<10	60	<0.5	<2	0.06	<0.5	9	168	15
CC147871		0.45	0.006		<0.2	1.46	2	<10	70	<0.5	<2	0.08	<0.5	14	206	24
CC147872		0.21	0.004		<0.2	1.72	6	<10	70	<0.5	<2	0.07	<0.5	9	178	18
CC147873		0.44	0.002		<0.2	1.51	6	<10	60	<0.5	<2	0.07	<0.5	13	238	18
CC147874		0.45	0.004		<0.2	2.05	3	<10	90	<0.5	<2	0.09	<0.5	18	176	22
CC147875		0.33	0.003		0.2	2.01	5	<10	90	<0.5	<2	0.09	<0.5	16	243	29
CC147876		0.38	0.007		<0.2	1.31	4	<10	70	<0.5	<2	0.07	<0.5	17	319	17
CC147877		0.46	0.003		<0.2	1.40	2	<10	70	<0.5	<2	0.07	<0.5	14	258	26
CC147878		0.48	0.014		<0.2	1.42	6	<10	120	<0.5	<2	0.10	<0.5	19	228	25
CC147879		0.36	0.012		<0.2	1.77	9	<10	80	<0.5	3	0.09	<0.5	16	189	26
CC147880		0.40	0.002		<0.2	1.57	3	<10	80	<0.5	2	0.07	<0.5	11	157	15



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**Page: 6 - B
 Total # Pages: 6 (A - C)
 Plus Appendix Pages
 Finalized Date: 9- AUG- 2011
 Account: F**

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	ME- ICP41 Fe %	ME- ICP41 Ga ppm	ME- ICP41 Hg ppm	ME- ICP41 K %	ME- ICP41 La ppm	ME- ICP41 Mg %	ME- ICP41 Mn ppm	ME- ICP41 Mo ppm	ME- ICP41 Na %	ME- ICP41 Ni ppm	ME- ICP41 P ppm	ME- ICP41 Pb ppm	ME- ICP41 S %	ME- ICP41 Sb ppm	ME- ICP41 Sc ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
CC147870		2.25	10	1	0.02	10	0.55	136	<1	<0.01	93	370	8	0.02	<2	2
CC147871		2.35	<10	<1	0.02	10	0.83	227	<1	<0.01	172	230	5	0.01	<2	2
CC147872		2.10	10	<1	0.04	10	0.62	158	<1	<0.01	106	320	7	0.01	<2	1
CC147873		2.42	<10	<1	0.02	10	0.83	197	<1	<0.01	185	290	6	0.01	2	2
CC147874		2.82	<10	<1	0.03	10	0.79	236	<1	<0.01	200	550	7	0.02	2	3
CC147875		2.60	<10	<1	0.04	10	1.05	228	<1	<0.01	213	710	7	0.04	2	1
CC147876		2.57	10	<1	0.02	10	1.17	300	<1	<0.01	202	390	7	0.02	2	2
CC147877		2.24	<10	<1	0.01	10	1.10	195	<1	<0.01	227	220	4	0.01	<2	2
CC147878		2.66	<10	<1	0.02	10	1.09	289	<1	<0.01	248	260	7	0.01	2	3
CC147879		2.55	<10	<1	0.04	10	0.98	185	<1	<0.01	239	410	6	0.01	<2	3
CC147880		2.00	<10	<1	0.03	10	0.78	145	<1	<0.01	139	250	5	0.01	<2	2



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Page: 6 - C
 Total # Pages: 6 (A - C)
 Plus Appendix Pages
 Finalized Date: 9- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Sr	Th	Ti	Tl	U	V	W	Zn
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147870		4	<20	0.04	<10	<10	39	<10	44
CC147871		6	<20	0.04	<10	<10	38	<10	43
CC147872		6	<20	0.04	<10	<10	42	<10	41
CC147873		6	<20	0.04	<10	<10	37	<10	48
CC147874		8	<20	0.04	<10	<10	37	<10	64
CC147875		8	<20	0.03	<10	<10	40	<10	52
CC147876		5	<20	0.03	<10	<10	45	<10	41
CC147877		6	<20	0.03	<10	<10	36	<10	40
CC147878		9	<20	0.04	<10	<10	36	<10	52
CC147879		8	<20	0.04	<10	<10	35	<10	61
CC147880		7	<20	0.03	<10	<10	31	<10	42



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**Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 9- AUG- 2011
Account: F**

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123809

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.



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Page: 1
Finalized Date: 5- OCT- 2011
Account: F

CERTIFICATE WH11171435

Project: WLW Finalayson - Has/Vivi

P.O. No.:

This report is for 40 Soil samples submitted to our lab in Whitehorse, YT, Canada on 24- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 2 (A - C)
Finalized Date: 5- OCT- 2011
Account: F

Project: WLV Finalayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171435

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05611		0.32	0.004	<0.2	2.37	26	<10	260	1.0	<2	0.33	<0.5	14	121	43	3.66
ZZ05612		0.34	0.006	<0.2	2.01	10	<10	170	0.7	<2	0.27	<0.5	12	105	37	2.64
ZZ05613		0.48	0.004	<0.2	1.80	14	<10	170	0.6	<2	0.32	<0.5	11	80	33	2.68
ZZ05614		0.24	0.003	<0.2	1.74	17	<10	130	0.6	<2	0.13	<0.5	9	82	28	3.39
ZZ05615		0.22	0.004	<0.2	1.00	16	<10	70	<0.5	2	0.06	<0.5	5	66	13	2.30
ZZ05616		0.32	0.004	<0.2	3.14	84	<10	220	0.9	<2	0.21	<0.5	25	207	44	4.16
ZZ05617		0.36	0.002	<0.2	2.27	21	<10	110	0.7	2	0.09	<0.5	9	116	25	3.73
ZZ05618		0.34	0.021	<0.2	2.12	20	<10	120	1.2	2	0.15	<0.5	15	169	39	3.73
ZZ05619		0.26	0.008	<0.2	2.23	24	<10	130	1.2	<2	0.10	<0.5	14	158	33	4.26
ZZ05620		0.26	0.008	<0.2	2.56	33	<10	130	2.0	<2	0.12	<0.5	21	163	35	5.25
ZZ05621		0.48	0.034	<0.2	1.95	22	<10	110	1.2	<2	0.09	<0.5	14	104	36	3.79
ZZ05622		0.20	0.028	0.2	2.54	144	<10	280	1.2	<2	0.38	0.6	22	103	85	6.13
ZZ05623		0.16	0.003	<0.2	1.57	34	<10	190	0.7	<2	0.52	<0.5	7	75	26	2.62
ZZ05624		0.26	0.007	<0.2	1.68	33	<10	70	<0.5	3	0.04	<0.5	7	81	22	4.49
ZZ05625		0.28	0.002	<0.2	2.07	25	<10	100	0.8	<2	0.06	<0.5	8	79	28	4.62
ZZ05626		0.30	0.003	<0.2	3.31	224	<10	70	1.0	<2	0.07	<0.5	15	281	34	5.15
ZZ05627		0.32	0.012	<0.2	2.26	24	<10	160	0.9	2	0.03	<0.5	6	78	34	5.27
ZZ05628		0.28	0.001	<0.2	1.63	8	<10	140	0.6	<2	0.10	<0.5	5	41	12	3.12
ZZ05629		0.26	0.001	<0.2	1.33	26	<10	150	0.7	2	0.10	<0.5	5	37	16	2.96
ZZ05630		0.40	0.002	<0.2	2.00	36	<10	200	1.7	<2	0.33	<0.7	7	54	22	2.93
ZZ05631		0.24	0.001	<0.2	1.51	15	<10	110	<0.5	<2	0.12	<0.5	6	65	23	3.10
ZZ05632		0.36	0.002	<0.2	1.86	28	<10	100	0.5	<2	0.09	<0.5	8	89	30	3.19
ZZ05633		0.26	<0.001	<0.2	1.69	20	<10	80	0.8	<2	0.05	<0.5	6	82	21	3.42
ZZ05634		0.22	<0.001	<0.2	1.61	31	<10	90	0.7	<2	0.06	<0.5	7	78	21	3.10
ZZ05635		0.30	0.001	<0.2	1.59	24	<10	80	<0.5	2	0.05	<0.5	6	64	16	2.62
ZZ05636		0.26	0.002	<0.2	2.11	34	<10	110	0.7	<2	0.08	<0.5	14	159	33	3.64
ZZ05637		0.22	0.001	<0.2	1.93	13	<10	90	0.7	2	0.11	<0.5	15	118	20	3.28
ZZ05638		0.28	0.001	<0.2	1.72	15	<10	80	<0.5	<2	0.14	<0.5	10	99	24	3.07
ZZ05639		0.32	0.001	<0.2	1.48	7	<10	60	<0.5	<2	0.06	<0.5	7	105	16	2.52
ZZ05640		0.30	0.001	<0.2	1.37	10	<10	50	<0.5	2	0.05	<0.5	8	83	18	2.80
ZZ05641		0.30	0.003	<0.2	1.04	6	<10	40	<0.5	2	0.04	<0.5	6	98	13	1.81
ZZ05642		0.28	0.003	<0.2	1.96	10	<10	70	<0.5	<2	0.13	<0.5	13	151	53	2.84
ZZ05643		0.30	0.001	<0.2	1.56	12	<10	50	<0.5	<2	0.06	<0.5	6	126	12	2.17
ZZ05644		0.26	0.003	<0.2	1.91	19	<10	80	0.5	<2	0.07	<0.5	10	136	29	3.10
ZZ05645		0.24	0.001	<0.2	1.34	12	<10	60	<0.5	<2	0.06	<0.5	9	97	23	3.03
ZZ05646		0.20	0.001	<0.2	1.35	11	<10	60	<0.5	<2	0.07	<0.5	9	171	15	3.04
ZZ05647		0.26	0.005	<0.2	1.00	8	<10	40	<0.5	<2	0.05	<0.5	5	93	14	1.98
ZZ05648		0.26	0.001	<0.2	1.27	6	<10	60	<0.5	<2	0.07	<0.5	10	174	14	2.24
ZZ05649		0.22	0.007	<0.2	0.99	12	<10	60	<0.5	<2	0.10	<0.5	13	244	22	3.19
ZZ05650		0.42	0.002	<0.2	1.38	7	<10	60	<0.5	<2	0.06	<0.5	6	101	13	1.96



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Page: 2 - B
Total # Pages: 2 (A - C)
Finalized Date: 5- OCT- 2011
Account: F

Project: WLV Finalayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171435

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05611		10	1	0.39	10	1.26	391	1	0.04	70	710	11	0.03	2	8	16
ZZ05612		10	<1	0.15	10	0.87	276	<1	0.04	62	560	12	0.02	<2	5	13
ZZ05613		10	<1	0.27	10	0.76	376	<1	0.04	42	730	12	0.02	<2	5	15
ZZ05614		10	<1	0.19	10	0.57	333	1	0.03	42	560	13	0.05	<2	3	12
ZZ05615		10	<1	0.13	10	0.30	223	1	0.03	30	440	17	0.03	<2	2	6
ZZ05616		10	1	0.52	10	1.74	431	<1	0.03	110	400	14	0.03	<2	8	15
ZZ05617		10	<1	0.13	10	0.69	241	1	0.03	51	590	14	0.03	<2	5	8
ZZ05618		10	<1	0.20	10	1.02	299	<1	0.03	101	590	18	0.03	<2	5	8
ZZ05619		10	<1	0.29	10	1.04	329	1	0.03	85	570	20	0.03	<2	6	8
ZZ05620		10	<1	0.32	10	1.43	624	<1	0.03	121	840	17	0.04	<2	8	7
ZZ05621		10	<1	0.17	10	0.72	303	1	0.03	76	600	17	0.04	<2	5	8
ZZ05622		10	<1	0.27	10	0.69	983	2	0.02	75	970	41	0.08	4	5	21
ZZ05623		10	<1	0.16	10	0.48	326	<1	0.03	30	540	16	0.04	<2	2	18
ZZ05624		10	1	0.12	10	0.57	348	1	0.03	36	730	18	0.04	<2	5	6
ZZ05625		10	<1	0.25	20	0.67	371	1	0.02	39	1180	18	0.05	<2	5	7
ZZ05626		10	<1	0.17	10	1.65	413	<1	0.03	79	490	12	0.04	<2	7	6
ZZ05627		10	<1	0.41	20	0.74	277	1	0.03	28	800	25	0.14	<2	7	12
ZZ05628		10	<1	0.16	20	0.59	223	1	0.02	16	320	19	0.03	<2	4	13
ZZ05629		10	<1	0.28	10	0.44	326	1	0.02	18	490	11	0.03	<2	2	10
ZZ05630		10	<1	0.22	20	0.66	578	1	0.02	27	1010	15	0.07	<2	1	19
ZZ05631		10	<1	0.34	10	0.57	305	<1	0.03	31	830	7	0.04	<2	4	7
ZZ05632		10	<1	0.21	10	0.58	328	1	0.03	46	740	10	0.03	2	5	6
ZZ05633		10	<1	0.22	10	0.58	317	1	0.03	38	480	18	0.07	<2	3	6
ZZ05634		10	<1	0.21	10	0.55	279	1	0.02	38	500	14	0.04	<2	3	7
ZZ05635		10	<1	0.18	20	0.47	272	1	0.02	32	410	13	0.03	<2	3	6
ZZ05636		10	1	0.21	10	1.00	296	1	0.03	79	280	10	0.03	<2	5	6
ZZ05637		10	<1	0.12	10	1.06	379	<1	0.02	88	440	8	0.02	<2	4	6
ZZ05638		10	<1	0.18	10	0.68	217	1	0.02	57	320	8	0.02	<2	4	8
ZZ05639		10	<1	0.12	10	0.46	177	1	0.02	54	320	11	0.02	<2	3	5
ZZ05640		10	<1	0.17	10	0.46	164	1	0.02	45	340	8	0.02	<2	3	4
ZZ05641		10	<1	0.07	10	0.37	148	1	0.02	51	290	9	0.02	<2	2	5
ZZ05642		10	1	0.14	10	0.83	221	2	0.01	128	560	19	0.02	2	4	5
ZZ05643		10	<1	0.06	10	0.52	130	<1	0.01	57	250	10	0.01	<2	2	5
ZZ05644		10	1	0.12	10	0.66	250	1	0.01	71	420	12	0.03	<2	4	7
ZZ05645		10	1	0.11	10	0.48	229	<1	0.01	55	320	10	0.02	2	3	6
ZZ05646		10	1	0.07	10	0.45	281	1	0.01	76	410	10	0.02	<2	3	6
ZZ05647		10	<1	0.06	10	0.27	114	<1	0.01	48	320	11	0.01	2	2	5
ZZ05648		10	1	0.08	10	0.50	185	<1	0.01	90	250	9	0.01	<2	3	5
ZZ05649		10	<1	0.09	10	0.63	397	1	0.02	134	640	10	0.03	2	3	5
ZZ05650		10	<1	0.07	10	0.36	252	<1	0.01	43	340	11	0.02	2	3	6



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Page: 2 - C
 Total # Pages: 2 (A - C)
 Finalized Date: 5- OCT- 2011
 Account: F

Project: WLV Finalayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171435

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05611		<20	0.16	<10	<10	96	<10	75
ZZ05612		<20	0.12	<10	<10	64	10	51
ZZ05613		<20	0.13	<10	<10	66	10	52
ZZ05614		<20	0.10	<10	<10	71	<10	61
ZZ05615		<20	0.14	<10	<10	63	10	42
ZZ05616		<20	0.19	<10	<10	107	10	78
ZZ05617		<20	0.14	<10	<10	80	10	60
ZZ05618		<20	0.13	<10	<10	66	10	66
ZZ05619		<20	0.15	<10	<10	76	10	84
ZZ05620		<20	0.19	<10	<10	94	10	158
ZZ05621		<20	0.12	<10	<10	64	10	78
ZZ05622		<20	0.08	<10	<10	102	10	131
ZZ05623		<20	0.12	<10	<10	69	<10	50
ZZ05624		<20	0.17	<10	<10	107	<10	68
ZZ05625		<20	0.16	<10	<10	91	<10	107
ZZ05626		<20	0.26	<10	<10	151	<10	94
ZZ05627		<20	0.26	<10	<10	132	<10	105
ZZ05628		<20	0.18	<10	<10	85	<10	56
ZZ05629		<20	0.10	<10	<10	66	<10	77
ZZ05630		<20	0.05	<10	<10	64	<10	78
ZZ05631		<20	0.17	<10	<10	82	<10	59
ZZ05632		<20	0.15	<10	<10	83	<10	56
ZZ05633		<20	0.12	<10	<10	64	<10	72
ZZ05634		<20	0.13	<10	<10	77	10	54
ZZ05635		<20	0.14	<10	<10	66	<10	48
ZZ05636		<20	0.17	<10	<10	79	<10	76
ZZ05637		<20	0.13	<10	<10	61	<10	76
ZZ05638		<20	0.13	<10	<10	65	<10	58
ZZ05639		<20	0.10	<10	<10	49	<10	41
ZZ05640		<20	0.13	<10	<10	60	<10	48
ZZ05641		<20	0.09	<10	<10	47	<10	27
ZZ05642		<20	0.10	<10	<10	58	<10	71
ZZ05643		<20	0.07	<10	<10	46	<10	47
ZZ05644		<20	0.10	<10	<10	77	<10	54
ZZ05645		<20	0.10	<10	<10	60	<10	53
ZZ05646		<20	0.11	<10	<10	66	<10	38
ZZ05647		<20	0.10	<10	<10	57	<10	26
ZZ05648		<20	0.08	<10	<10	46	<10	40
ZZ05649		<20	0.09	<10	<10	71	<10	42
ZZ05650		<20	0.07	<10	<10	58	<10	29



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Page: 1
Finalized Date: 9- OCT- 2011
Account: F

CERTIFICATE WH11171436

Project: WLW Finlayson - Has/Vivi

P.O. No.:

This report is for 236 Soil samples submitted to our lab in Whitehorse, YT, Canada on 24- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 7 (A - C)
Finalized Date: 9- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05701		0.42	0.009	<0.2	0.94	9	<10	40	<0.5	<2	0.12	<0.5	26	405	13	3.41
ZZ05702		0.44	0.010	<0.2	0.92	9	<10	80	<0.5	<2	0.05	<0.5	27	536	10	3.70
ZZ05703		0.36	0.005	<0.2	0.96	8	<10	40	<0.5	<2	0.11	<0.5	25	430	16	3.27
ZZ05704		0.36	0.009	<0.2	1.23	9	<10	70	<0.5	<2	0.11	<0.5	29	370	16	3.49
ZZ05705		0.52	0.005	0.3	1.17	8	<10	40	<0.5	<2	0.10	<0.5	17	306	16	3.04
ZZ05706		0.42	0.007	<0.2	1.08	7	<10	50	<0.5	<2	0.10	<0.5	19	335	16	3.01
ZZ05707		0.34	0.004	<0.2	1.33	7	<10	40	<0.5	<2	0.09	<0.5	18	293	15	3.38
ZZ05708		0.52	0.005	<0.2	1.04	7	<10	30	<0.5	<2	0.10	<0.5	23	380	16	3.23
ZZ05709		0.30	0.005	<0.2	1.15	9	<10	50	<0.5	<2	0.10	<0.5	23	336	17	3.25
ZZ05710		0.42	0.009	<0.2	1.24	8	<10	50	<0.5	<2	0.10	<0.5	26	332	19	3.23
ZZ05711		0.44	0.002	<0.2	0.93	7	<10	80	<0.5	<2	0.13	<0.5	14	246	6	2.36
ZZ05712		0.56	0.009	<0.2	1.08	5	<10	60	<0.5	<2	0.14	<0.5	12	213	9	2.27
ZZ05713		0.42	0.009	<0.2	1.44	8	<10	60	<0.5	<2	0.12	<0.5	14	222	17	2.88
ZZ05714		0.36	0.006	<0.2	1.78	13	<10	80	<0.5	<2	0.08	<0.5	22	352	27	3.53
ZZ05715		0.44	0.004	<0.2	1.14	4	<10	70	<0.5	<2	0.14	<0.5	9	172	20	1.91
ZZ05716		0.40	0.011	<0.2	1.77	11	<10	50	<0.5	<2	0.09	<0.5	23	323	29	3.30
ZZ05717		0.36	0.004	<0.2	2.13	14	<10	70	<0.5	<2	0.07	<0.5	16	317	34	3.82
ZZ05718		0.44	0.003	<0.2	1.23	6	<10	30	<0.5	<2	0.06	<0.5	13	267	13	2.45
ZZ05719		0.38	0.003	<0.2	1.45	5	<10	90	<0.5	<2	0.16	<0.5	16	237	25	2.48
ZZ05720		0.32	0.002	<0.2	1.36	7	<10	90	<0.5	<2	0.16	<0.5	14	238	30	2.55
ZZ05721		0.44	0.003	<0.2	1.59	6	<10	70	<0.5	<2	0.11	<0.5	14	149	29	2.14
ZZ05722		0.34	0.005	<0.2	1.75	6	<10	140	<0.5	<2	0.16	<0.5	12	140	49	1.99
ZZ05723		0.42	0.003	<0.2	1.54	5	<10	80	<0.5	<2	0.13	<0.5	12	126	38	1.88
ZZ05724		0.60	0.004	<0.2	1.68	4	<10	120	<0.5	<2	0.15	<0.5	13	125	38	1.94
ZZ05725		0.72	0.003	<0.2	1.72	7	<10	230	<0.5	<2	0.15	<0.5	16	175	41	2.42
ZZ05726		0.58	0.003	<0.2	1.51	4	<10	120	<0.5	<2	0.11	<0.5	13	135	27	1.84
ZZ05727		0.40	0.004	<0.2	1.40	7	<10	50	<0.5	<2	0.11	<0.5	12	146	17	1.90
ZZ05728		0.54	0.003	<0.2	1.19	6	<10	70	<0.5	<2	0.10	<0.5	15	207	20	2.17
ZZ05729		0.46	0.017	<0.2	1.28	4	<10	80	<0.5	<2	0.13	<0.5	11	150	17	1.76
ZZ05730		0.32	0.001	<0.2	1.08	5	<10	100	<0.5	<2	0.12	<0.5	13	175	11	1.78
ZZ05731		0.42	0.005	<0.2	1.32	9	<10	110	<0.5	<2	0.12	<0.5	15	252	16	2.01
ZZ05732		0.32	0.004	<0.2	1.23	6	<10	140	<0.5	<2	0.16	<0.5	13	189	19	2.06
ZZ05733		0.36	0.002	<0.2	1.94	9	<10	100	<0.5	<2	0.09	<0.5	16	186	21	2.63
ZZ05734		0.32	0.004	0.3	1.15	4	<10	40	<0.5	<2	0.05	<0.5	10	162	12	1.32
ZZ05735		0.42	0.020	<0.2	1.22	6	<10	50	<0.5	<2	0.10	<0.5	16	248	19	2.29
ZZ05736		0.56	0.003	<0.2	1.11	4	<10	70	<0.5	<2	0.07	<0.5	12	217	11	1.81
ZZ05737		0.52	0.002	<0.2	1.31	5	<10	60	<0.5	<2	0.08	<0.5	12	190	12	1.98
ZZ05738		0.40	0.003	<0.2	1.20	4	<10	50	<0.5	<2	0.08	<0.5	13	225	13	1.85
ZZ05739		0.46	0.005	<0.2	1.34	7	<10	200	<0.5	<2	0.14	<0.5	24	271	20	2.79
ZZ05740		0.46	0.026	<0.2	0.85	5	<10	70	<0.5	<2	0.14	<0.5	15	240	9	1.90



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Page: 2 - B
Total # Pages: 7 (A - C)
Finalized Date: 9- OCT- 2011
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Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05701		<10	<1	0.03	10	1.95	425	<1	0.01	363	400	6	0.01	<2	3	10
ZZ05702		<10	<1	0.03	10	1.43	622	<1	0.01	306	420	6	0.01	<2	2	8
ZZ05703		<10	<1	0.03	10	1.66	374	<1	0.01	441	300	5	<0.01	<2	2	10
ZZ05704		<10	<1	0.03	10	1.68	457	<1	0.01	404	350	7	0.01	<2	3	11
ZZ05705		<10	<1	0.03	10	1.09	280	<1	0.01	259	350	8	<0.01	<2	2	11
ZZ05706		<10	<1	0.03	10	1.18	297	<1	0.01	290	270	6	<0.01	<2	2	11
ZZ05707		<10	<1	0.03	10	1.03	296	<1	0.01	250	350	8	0.01	<2	2	10
ZZ05708		<10	<1	0.03	10	1.50	343	<1	0.01	371	280	6	<0.01	<2	2	10
ZZ05709		<10	<1	0.03	10	1.40	381	<1	0.01	342	300	7	<0.01	<2	3	11
ZZ05710		<10	<1	0.03	10	1.29	399	<1	0.01	339	330	8	<0.01	2	3	11
ZZ05711		<10	<1	0.03	10	1.17	265	<1	<0.01	188	330	6	<0.01	<2	2	12
ZZ05712		<10	<1	0.03	10	0.91	234	<1	0.01	157	420	6	<0.01	<2	2	12
ZZ05713		<10	<1	0.03	10	0.96	232	<1	0.01	200	440	7	0.01	<2	2	10
ZZ05714		<10	<1	0.03	10	1.60	334	<1	0.01	428	320	6	0.01	<2	3	9
ZZ05715		<10	<1	0.03	10	0.82	174	<1	0.01	135	340	6	<0.01	<2	2	12
ZZ05716		<10	<1	0.03	10	1.26	292	<1	0.01	372	350	5	0.01	<2	3	9
ZZ05717		10	<1	0.04	10	1.08	216	<1	0.01	263	350	8	0.01	<2	3	9
ZZ05718		<10	<1	0.03	10	0.86	186	<1	0.01	195	270	6	0.01	<2	2	8
ZZ05719		<10	<1	0.03	10	1.14	247	<1	0.01	199	360	5	0.01	<2	3	12
ZZ05720		<10	<1	0.03	10	1.13	269	<1	0.01	208	420	5	<0.01	<2	3	13
ZZ05721		<10	<1	0.03	10	0.69	192	<1	0.01	141	410	10	0.01	<2	2	11
ZZ05722		<10	<1	0.02	10	0.76	204	<1	0.01	103	360	6	0.01	<2	3	12
ZZ05723		<10	<1	0.02	10	0.70	200	<1	0.01	84	350	6	0.01	<2	2	11
ZZ05724		<10	<1	0.03	10	0.73	205	<1	0.02	84	320	5	0.01	<2	3	13
ZZ05725		<10	<1	0.03	10	0.90	254	<1	0.01	164	250	8	0.01	<2	4	12
ZZ05726		<10	<1	0.02	10	0.65	155	<1	0.01	122	330	6	0.01	2	2	11
ZZ05727		<10	<1	0.02	10	0.67	150	<1	0.01	127	390	7	0.01	<2	2	11
ZZ05728		<10	<1	0.02	10	0.85	243	<1	0.01	189	340	6	0.01	<2	2	11
ZZ05729		<10	<1	0.02	10	0.67	154	<1	0.01	131	350	7	<0.01	<2	2	12
ZZ05730		<10	<1	0.02	10	1.14	183	<1	0.01	143	410	6	0.01	<2	2	11
ZZ05731		<10	1	0.03	10	0.91	297	<1	0.01	164	680	8	0.01	<2	2	13
ZZ05732		<10	<1	0.02	10	0.80	200	<1	0.01	148	370	6	<0.01	<2	2	15
ZZ05733		<10	<1	0.03	10	0.70	206	<1	0.01	158	300	8	0.01	<2	3	11
ZZ05734		<10	1	0.03	10	0.59	114	<1	0.01	137	400	6	0.02	<2	1	9
ZZ05735		<10	<1	0.03	10	0.97	232	<1	0.01	219	300	7	<0.01	<2	2	11
ZZ05736		<10	1	0.03	10	0.72	159	<1	0.01	148	240	7	<0.01	<2	2	10
ZZ05737		<10	1	0.03	10	0.75	165	<1	0.01	141	340	9	0.01	<2	1	10
ZZ05738		<10	<1	0.03	10	0.70	188	<1	0.01	148	520	7	0.02	<2	1	10
ZZ05739		<10	<1	0.05	10	1.19	355	<1	0.01	323	340	6	0.01	<2	4	14
ZZ05740		<10	<1	0.02	10	0.84	273	<1	0.01	187	450	5	<0.01	<2	2	13



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Page: 2 - C
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CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05701		<20	0.05	<10	<10	39	<10	48
ZZ05702		<20	0.03	<10	<10	44	<10	47
ZZ05703		<20	0.04	<10	<10	35	<10	42
ZZ05704		<20	0.04	<10	<10	39	<10	54
ZZ05705		<20	0.04	<10	<10	37	<10	51
ZZ05706		<20	0.04	<10	<10	36	<10	48
ZZ05707		<20	0.04	<10	<10	41	<10	53
ZZ05708		<20	0.04	<10	<10	36	<10	45
ZZ05709		<20	0.05	<10	<10	37	<10	49
ZZ05710		<20	0.05	<10	<10	37	<10	51
ZZ05711		<20	0.04	<10	<10	30	<10	46
ZZ05712		<20	0.04	<10	<10	30	<10	48
ZZ05713		<20	0.04	<10	<10	40	<10	53
ZZ05714		<20	0.04	<10	<10	46	<10	46
ZZ05715		<20	0.04	<10	<10	30	<10	40
ZZ05716		<20	0.04	<10	<10	42	<10	48
ZZ05717		<20	0.05	<10	<10	52	<10	56
ZZ05718		<20	0.04	<10	<10	34	<10	35
ZZ05719		<20	0.04	<10	<10	38	<10	45
ZZ05720		<20	0.04	<10	<10	41	<10	45
ZZ05721		<20	0.04	<10	<10	37	<10	49
ZZ05722		<20	0.05	<10	<10	40	<10	42
ZZ05723		<20	0.04	<10	<10	36	<10	41
ZZ05724		<20	0.05	<10	<10	40	<10	43
ZZ05725		<20	0.05	<10	<10	44	<10	47
ZZ05726		<20	0.04	<10	<10	35	<10	40
ZZ05727		<20	0.04	<10	<10	33	<10	42
ZZ05728		<20	0.04	<10	<10	33	<10	40
ZZ05729		<20	0.04	<10	<10	31	<10	41
ZZ05730		<20	0.03	<10	<10	33	<10	39
ZZ05731		<20	0.03	<10	<10	36	<10	50
ZZ05732		<20	0.04	<10	<10	34	<10	45
ZZ05733		<20	0.04	<10	<10	43	<10	51
ZZ05734		<20	0.03	<10	<10	25	<10	24
ZZ05735		<20	0.04	<10	<10	33	<10	41
ZZ05736		<20	0.04	<10	<10	32	<10	35
ZZ05737		<20	0.03	<10	<10	34	<10	47
ZZ05738		<20	0.02	<10	<10	30	<10	40
ZZ05739		<20	0.04	<10	<10	38	<10	55
ZZ05740		<20	0.04	<10	<10	27	<10	43



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Page: 3 - A
Total # Pages: 7 (A - C)
Finalized Date: 9- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05741		0.34	0.005	<0.2	1.20	6	<10	60	<0.5	<2	0.07	<0.5	17	234	11	2.03
ZZ05742		0.32	0.001	<0.2	1.09	5	<10	30	<0.5	<2	0.05	<0.5	13	265	10	2.31
ZZ05743		0.36	0.004	<0.2	1.38	7	<10	40	<0.5	<2	0.08	<0.5	16	288	15	2.55
ZZ05744		0.34	0.005	<0.2	1.33	8	<10	70	<0.5	<2	0.08	<0.5	15	322	14	2.59
ZZ05745		0.40	0.008	<0.2	0.91	12	<10	40	<0.5	<2	0.05	<0.5	26	484	9	3.07
ZZ05746		0.50	0.116	<0.2	1.07	6	<10	30	<0.5	<2	0.11	<0.5	17	279	14	2.50
ZZ05747		0.48	0.030	<0.2	1.25	12	<10	70	<0.5	<2	0.07	<0.5	26	477	15	3.47
ZZ05748		0.30	0.017	<0.2	1.20	16	<10	90	<0.5	2	0.06	<0.5	36	621	13	4.76
ZZ05749		0.42	0.010	<0.2	0.89	7	<10	40	<0.5	<2	0.07	<0.5	15	341	7	2.55
ZZ05750		0.58	0.002	<0.2	0.82	7	<10	40	<0.5	<2	0.09	<0.5	33	535	10	3.21
ZZ05751		0.30	0.002	<0.2	1.06	10	<10	90	<0.5	<2	0.05	<0.5	20	433	9	2.94
ZZ05752		0.38	0.006	<0.2	1.09	7	<10	40	<0.5	<2	0.07	<0.5	15	273	8	2.19
ZZ05753		0.44	0.004	<0.2	0.86	5	<10	30	<0.5	<2	0.08	<0.5	23	376	8	2.49
ZZ05754		0.38	0.004	<0.2	0.85	5	<10	70	<0.5	<2	0.16	<0.5	13	295	9	2.06
ZZ05755		0.18	0.002	<0.2	0.71	32	<10	40	<0.5	<2	0.06	<0.5	53	681	12	4.32
ZZ05756		0.36	0.002	<0.2	0.71	14	<10	30	<0.5	<2	0.03	<0.5	67	911	12	5.32
ZZ05757		0.48	0.014	<0.2	1.54	19	<10	130	<0.5	2	0.12	<0.5	25	398	23	3.18
ZZ05758		0.36	0.026	<0.2	1.38	4	<10	80	<0.5	<2	0.07	<0.5	13	239	10	2.27
ZZ05759		0.42	0.048	<0.2	1.36	4	<10	80	<0.5	<2	0.08	<0.5	15	284	15	2.50
ZZ05760		0.38	0.021	<0.2	1.37	5	<10	100	<0.5	2	0.12	<0.5	11	215	14	2.24
ZZ05761		0.40	0.003	<0.2	1.64	5	<10	90	<0.5	<2	0.08	<0.5	15	236	13	2.68
ZZ05762		0.42	0.007	<0.2	1.92	7	<10	80	<0.5	<2	0.08	<0.5	21	280	27	3.18
ZZ05763		0.48	0.002	<0.2	1.59	7	<10	70	<0.5	<2	0.07	<0.5	15	248	17	3.00
ZZ05764		0.40	0.003	<0.2	2.37	7	<10	50	<0.5	<2	0.06	<0.5	20	334	124	3.58
ZZ05765		0.34	0.001	<0.2	1.83	7	<10	80	<0.5	<2	0.07	<0.5	18	246	28	2.98
ZZ05766		0.28	0.028	<0.2	1.42	6	<10	30	<0.5	<2	0.06	<0.5	12	303	42	2.22
ZZ05767		0.36	0.001	<0.2	2.08	9	<10	50	<0.5	2	0.07	<0.5	15	322	52	3.13
ZZ05768		0.32	0.001	0.2	2.39	3	<10	70	<0.5	<2	0.08	<0.5	17	231	40	3.30
ZZ05769		0.26	0.006	0.2	2.06	5	<10	50	<0.5	2	0.07	<0.5	14	272	54	2.82
ZZ05770		0.32	0.002	<0.2	1.75	3	<10	80	<0.5	<2	0.11	<0.5	10	159	44	2.21
ZZ05771		0.60	0.013	<0.2	3.81	9	<10	160	<0.5	2	0.11	<0.5	9	187	61	2.40
ZZ05772		0.48	0.003	<0.2	2.09	6	<10	130	<0.5	<2	0.15	<0.5	11	185	42	2.04
ZZ05773		0.30	0.006	0.5	3.01	5	<10	110	<0.5	<2	0.06	<0.5	5	133	32	1.22
ZZ05774		0.38	0.002	<0.2	1.91	6	<10	80	<0.5	<2	0.07	<0.5	11	155	14	2.48
ZZ05775		0.36	0.004	<0.2	1.26	4	<10	130	<0.5	<2	0.11	<0.5	17	264	19	2.47
ZZ05776		0.40	0.003	<0.2	1.20	3	<10	190	<0.5	<2	0.25	<0.5	16	198	21	2.38
ZZ05777		0.38	0.001	<0.2	1.45	7	<10	180	<0.5	<2	0.13	<0.5	13	295	10	2.08
ZZ05778		0.42	0.004	<0.2	1.43	5	<10	180	<0.5	2	0.22	<0.5	11	134	22	2.24
ZZ05779		0.26	0.003	<0.2	1.50	3	<10	150	<0.5	<2	0.15	<0.5	7	207	13	1.82
ZZ05780		0.38	0.005	<0.2	1.16	4	<10	140	<0.5	<2	0.14	<0.5	20	250	14	2.42



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Page: 3 - B
Total # Pages: 7 (A - C)
Finalized Date: 9- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05741		<10	<1	0.03	10	1.02	200	<1	0.01	190	270	8	0.01	<2	2	11
ZZ05742		<10	<1	0.02	10	0.77	162	<1	0.01	152	230	5	0.01	<2	2	9
ZZ05743		<10	<1	0.03	10	0.82	187	<1	0.01	223	300	6	0.01	<2	2	10
ZZ05744		<10	<1	0.03	10	0.75	181	<1	0.01	205	340	6	0.01	<2	2	11
ZZ05745		<10	<1	0.03	10	1.31	358	<1	0.01	285	330	6	0.01	<2	2	8
ZZ05746		<10	<1	0.03	10	0.89	226	<1	0.01	232	380	5	0.01	<2	2	11
ZZ05747		<10	<1	0.03	10	1.55	444	<1	0.01	338	500	7	0.02	<2	2	10
ZZ05748		<10	<1	0.02	10	1.66	670	<1	0.01	396	490	6	0.01	<2	4	9
ZZ05749		<10	<1	0.02	10	0.99	202	<1	0.01	199	190	6	<0.01	<2	2	9
ZZ05750		<10	<1	0.02	10	2.67	433	<1	0.01	458	310	5	0.01	2	2	10
ZZ05751		<10	<1	0.04	10	1.56	284	<1	0.01	278	340	6	0.01	<2	2	10
ZZ05752		<10	<1	0.02	10	0.91	169	<1	0.01	197	220	5	0.01	<2	2	11
ZZ05753		<10	<1	0.03	10	1.16	277	<1	0.01	279	230	7	0.01	<2	2	10
ZZ05754		<10	<1	0.02	10	0.88	139	<1	0.02	232	520	6	0.01	<2	3	14
ZZ05755		<10	<1	0.02	10	3.38	595	<1	0.01	635	250	5	0.01	<2	3	8
ZZ05756		<10	<1	0.01	10	4.65	699	<1	0.01	814	320	4	0.01	2	3	6
ZZ05757		<10	<1	0.03	10	1.88	366	<1	0.02	359	450	8	0.01	<2	4	11
ZZ05758		<10	<1	0.03	20	0.89	216	<1	0.01	156	150	5	<0.01	<2	2	9
ZZ05759		<10	<1	0.03	10	1.23	231	<1	0.01	192	190	5	<0.01	<2	2	8
ZZ05760		<10	<1	0.03	10	1.10	188	<1	0.01	147	250	4	<0.01	<2	3	10
ZZ05761		<10	<1	0.03	20	0.99	245	<1	0.01	162	210	7	<0.01	<2	3	8
ZZ05762		<10	<1	0.03	10	1.23	241	<1	0.01	233	230	6	0.01	<2	3	8
ZZ05763		<10	<1	0.03	10	1.15	208	<1	0.01	162	160	5	<0.01	<2	3	8
ZZ05764		10	1	0.02	10	2.07	232	<1	0.01	213	150	2	<0.01	<2	5	6
ZZ05765		<10	<1	0.03	10	1.05	197	<1	0.01	174	200	5	0.01	<2	3	8
ZZ05766		<10	<1	0.03	10	1.23	165	<1	0.01	89	270	3	0.01	<2	2	6
ZZ05767		10	<1	0.03	10	1.56	237	<1	0.01	99	210	4	0.01	<2	4	6
ZZ05768		10	<1	0.04	10	1.70	168	<1	0.02	102	190	3	0.01	<2	3	6
ZZ05769		10	<1	0.03	10	1.46	216	<1	0.01	114	180	5	0.01	<2	4	6
ZZ05770		<10	<1	0.03	10	0.95	189	<1	0.01	57	300	5	<0.01	<2	3	10
ZZ05771		10	1	0.07	10	0.92	151	<1	0.01	78	710	8	0.02	<2	3	10
ZZ05772		<10	<1	0.03	10	0.97	194	<1	0.02	76	210	5	0.01	<2	3	12
ZZ05773		10	<1	0.04	10	0.38	107	<1	0.01	49	870	8	0.03	<2	1	8
ZZ05774		<10	<1	0.04	20	0.66	239	<1	0.01	82	470	9	0.01	<2	2	9
ZZ05775		<10	<1	0.03	20	1.03	319	<1	0.01	206	300	5	<0.01	<2	2	10
ZZ05776		<10	<1	0.04	20	0.85	274	<1	0.02	199	500	6	<0.01	<2	3	16
ZZ05777		<10	<1	0.01	10	0.89	102	<1	0.01	157	100	9	0.03	<2	3	11
ZZ05778		<10	<1	0.06	20	0.79	257	<1	0.02	89	310	7	<0.01	2	4	15
ZZ05779		<10	<1	0.02	10	0.86	102	<1	0.02	81	350	7	0.03	<2	3	11
ZZ05780		<10	<1	0.03	20	0.98	349	<1	0.01	180	260	7	<0.01	<2	3	15



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Page: 3 - C
 Total # Pages: 7 (A - C)
 Finalized Date: 9- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05741		<20	0.04	<10	<10	34	<10	40
ZZ05742		<20	0.04	<10	<10	36	<10	31
ZZ05743		<20	0.04	<10	<10	37	<10	41
ZZ05744		<20	0.04	<10	<10	39	<10	45
ZZ05745		<20	0.03	<10	<10	37	<10	37
ZZ05746		<20	0.04	<10	<10	32	<10	44
ZZ05747		<20	0.04	<10	<10	44	<10	54
ZZ05748		<20	0.04	<10	<10	50	<10	54
ZZ05749		<20	0.04	<10	<10	33	<10	39
ZZ05750		<20	0.04	<10	<10	32	<10	44
ZZ05751		<20	0.03	<10	<10	40	<10	43
ZZ05752		<20	0.04	<10	<10	32	<10	41
ZZ05753		<20	0.04	<10	<10	30	<10	41
ZZ05754		<20	0.04	<10	<10	27	<10	38
ZZ05755		<20	0.03	<10	<10	41	<10	37
ZZ05756		<20	0.03	<10	<10	47	<10	58
ZZ05757		<20	0.04	<10	<10	49	<10	55
ZZ05758		<20	0.04	<10	<10	37	<10	46
ZZ05759		<20	0.04	<10	<10	44	<10	42
ZZ05760		<20	0.04	<10	<10	42	<10	43
ZZ05761		<20	0.04	<10	<10	43	<10	53
ZZ05762		<20	0.04	<10	<10	49	<10	48
ZZ05763		<20	0.04	<10	<10	51	<10	44
ZZ05764		<20	0.06	<10	<10	81	<10	47
ZZ05765		<20	0.05	<10	<10	50	<10	51
ZZ05766		<20	0.05	<10	<10	59	<10	36
ZZ05767		<20	0.06	<10	<10	77	<10	47
ZZ05768		<20	0.09	<10	<10	84	<10	37
ZZ05769		<20	0.05	<10	<10	70	<10	37
ZZ05770		<20	0.05	<10	<10	45	<10	41
ZZ05771		<20	0.04	<10	<10	47	<10	47
ZZ05772		<20	0.04	<10	<10	40	<10	37
ZZ05773		<20	0.01	<10	<10	36	<10	23
ZZ05774		<20	0.04	<10	<10	41	<10	53
ZZ05775		<20	0.04	<10	<10	35	<10	43
ZZ05776		<20	0.05	<10	<10	35	<10	49
ZZ05777		<20	0.03	<10	<10	41	<10	35
ZZ05778		<20	0.05	<10	<10	40	<10	53
ZZ05779		<20	0.03	<10	<10	40	<10	37
ZZ05780		<20	0.04	<10	<10	37	<10	49



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Page: 4 - A
Total # Pages: 7 (A - C)
Finalized Date: 9- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05781		0.44	0.002	<0.2	1.69	6	<10	90	<0.5	2	0.09	<0.5	17	211	13	2.88
ZZ05782		0.48	0.003	<0.2	1.21	4	<10	90	<0.5	<2	0.10	<0.5	13	192	13	2.14
ZZ05783		0.34	0.003	<0.2	1.53	7	<10	100	<0.5	2	0.11	<0.5	15	202	15	2.63
ZZ05784		0.34	0.005	<0.2	1.32	7	<10	150	<0.5	2	0.14	<0.5	19	225	20	2.65
ZZ05785		0.30	0.004	<0.2	2.90	15	<10	190	1.8	<2	0.19	<0.5	12	93	60	3.69
ZZ05786		0.42	0.003	0.2	2.48	7	<10	110	0.9	2	0.12	<0.5	8	66	25	2.63
ZZ05787		0.22	0.003	0.4	2.47	7	<10	110	0.8	2	0.11	<0.5	8	108	24	2.94
ZZ05788		0.28	0.003	<0.2	2.65	11	<10	160	1.2	2	0.17	<0.5	14	99	33	3.53
ZZ05789		0.40	0.005	0.2	2.20	6	<10	130	0.8	2	0.10	<0.5	9	123	20	2.85
ZZ05790		0.40	0.012	<0.2	2.57	20	<10	170	1.2	2	0.09	<0.5	12	85	29	3.67
ZZ05791		0.46	0.003	<0.2	2.69	12	<10	160	1.1	2	0.14	<0.5	13	171	19	3.28
ZZ05792		0.38	0.009	0.2	1.74	37	<10	160	0.7	2	0.16	<0.5	32	305	11	4.02
ZZ05793		0.22	0.040	<0.2	1.35	42	<10	170	<0.5	<2	0.14	<0.5	36	511	10	2.62
ZZ05794		0.28	0.003	<0.2	1.93	17	<10	250	0.6	<2	0.16	<0.5	21	213	14	3.08
ZZ05795		0.44	0.004	<0.2	2.18	12	<10	90	0.6	<2	0.12	<0.5	12	91	16	2.66
ZZ05796		0.48	0.150	<0.2	1.70	29	<10	120	0.6	<2	0.10	<0.5	17	361	20	3.72
ZZ05797		0.62	0.015	<0.2	1.00	49	<10	70	<0.5	<2	0.11	<0.5	37	434	15	4.13
ZZ05798		0.32	0.012	0.4	1.60	82	<10	190	0.7	<2	0.16	<0.5	30	331	15	4.43
ZZ05799		0.32	0.004	0.3	2.49	21	<10	130	1.0	<2	0.11	<0.5	11	87	19	2.97
ZZ05800		0.42	0.003	<0.2	1.97	11	<10	80	0.7	<2	0.06	<0.5	8	76	18	2.90
ZZ05801		0.24	0.003	<0.2	1.37	7	<10	60	<0.5	<2	0.07	<0.5	15	234	23	2.51
ZZ05802		0.32	0.012	<0.2	1.50	6	<10	70	<0.5	<2	0.07	<0.5	12	200	22	2.11
ZZ05803		0.24	0.002	<0.2	1.53	8	<10	60	<0.5	<2	0.07	<0.5	13	203	21	2.92
ZZ05804		0.34	0.011	<0.2	1.35	9	<10	60	<0.5	<2	0.06	<0.5	9	230	11	2.44
ZZ05805		0.22	0.182	<0.2	1.53	9	<10	70	<0.5	<2	0.06	<0.5	19	274	16	3.13
ZZ05806		0.32	0.006	<0.2	1.45	8	<10	70	<0.5	<2	0.07	<0.5	14	225	14	2.66
ZZ05807		0.30	0.019	<0.2	1.17	6	<10	60	<0.5	<2	0.06	<0.5	18	239	14	2.42
ZZ05808		0.22	0.026	<0.2	1.54	8	<10	70	<0.5	<2	0.07	<0.5	19	289	19	3.15
ZZ05809		0.34	0.005	<0.2	1.28	6	<10	50	<0.5	<2	0.08	<0.5	13	257	15	3.06
ZZ05810		0.28	0.004	<0.2	0.97	6	<10	70	<0.5	<2	0.10	<0.5	11	243	12	2.06
ZZ05811		0.36	0.007	<0.2	1.23	6	<10	90	<0.5	<2	0.06	<0.5	11	232	12	2.04
ZZ05812		0.24	0.002	<0.2	1.31	11	<10	70	<0.5	<2	0.06	<0.5	16	267	12	3.24
ZZ05813		0.26	0.008	<0.2	1.00	6	<10	60	<0.5	<2	0.06	<0.5	13	302	10	2.24
ZZ05814		0.30	0.003	<0.2	1.27	10	<10	60	<0.5	<2	0.06	<0.5	16	378	12	3.28
ZZ05815		0.26	0.003	<0.2	1.29	9	<10	60	<0.5	<2	0.07	<0.5	14	269	13	3.70
ZZ05816		0.26	0.005	<0.2	1.29	8	<10	60	<0.5	<2	0.06	<0.5	12	299	11	2.85
ZZ05817		0.26	0.004	<0.2	1.20	8	<10	70	<0.5	<2	0.06	<0.5	19	383	10	3.16
ZZ05818		0.40	0.003	<0.2	1.39	9	<10	80	<0.5	<2	0.06	<0.5	17	355	14	3.24
ZZ05819		0.28	0.024	<0.2	1.33	7	<10	70	<0.5	<2	0.06	<0.5	13	301	12	3.31
ZZ05820		0.26	0.007	<0.2	1.02	3	<10	70	<0.5	<2	0.06	<0.5	8	208	5	1.91



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Page: 4 - B
 Total # Pages: 7 (A - C)
 Finalized Date: 9- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05781		<10	<1	0.04	20	0.79	259	<1	0.01	151	280	7	<0.01	<2	3	10
ZZ05782		<10	<1	0.03	20	0.83	201	<1	0.01	142	150	6	<0.01	<2	3	12
ZZ05783		<10	<1	0.04	20	0.86	259	<1	0.01	149	380	8	<0.01	<2	3	12
ZZ05784		<10	<1	0.04	20	0.96	338	<1	0.01	214	240	5	<0.01	<2	4	14
ZZ05785		10	<1	0.25	20	1.32	386	2	0.02	73	390	10	0.04	2	8	25
ZZ05786		10	<1	0.11	20	0.87	264	2	0.01	41	620	10	0.02	<2	3	13
ZZ05787		10	<1	0.16	20	1.01	293	2	0.02	61	470	11	0.03	<2	5	14
ZZ05788		10	1	0.24	20	1.34	359	<1	0.02	89	330	8	0.04	<2	7	28
ZZ05789		10	<1	0.17	20	0.85	246	<1	0.02	60	430	9	0.04	<2	3	16
ZZ05790		10	<1	0.32	20	0.99	316	<1	0.02	73	310	9	0.06	<2	5	23
ZZ05791		10	<1	0.20	20	0.89	263	<1	0.01	101	450	10	0.01	<2	4	17
ZZ05792		<10	<1	0.04	10	0.95	361	<1	0.02	243	450	9	0.01	2	4	15
ZZ05793		<10	<1	0.02	10	1.04	214	<1	0.02	297	310	10	0.03	2	5	10
ZZ05794		10	<1	0.03	10	0.97	255	1	0.03	130	440	14	0.02	<2	4	10
ZZ05795		10	<1	0.08	20	0.68	190	1	0.02	103	690	10	0.02	<2	3	10
ZZ05796		<10	<1	0.04	10	1.04	252	1	0.02	364	380	9	0.02	<2	6	9
ZZ05797		<10	<1	0.03	10	1.81	518	<1	0.02	490	480	7	0.02	<2	7	8
ZZ05798		<10	<1	0.04	10	1.52	945	<1	0.02	429	1040	7	0.04	5	6	19
ZZ05799		10	<1	0.11	20	0.69	272	1	0.02	81	620	11	0.03	<2	3	14
ZZ05800		10	<1	0.15	20	0.61	227	1	0.02	37	400	11	0.04	<2	3	14
ZZ05801		<10	<1	0.02	10	0.89	244	<1	0.02	199	240	8	0.01	<2	2	6
ZZ05802		<10	<1	0.02	10	0.93	175	<1	0.02	157	270	7	0.02	<2	2	7
ZZ05803		10	1	0.03	10	0.88	231	1	0.02	149	360	8	0.02	<2	2	8
ZZ05804		10	<1	0.02	10	0.73	161	<1	0.02	141	220	9	0.01	<2	2	7
ZZ05805		<10	<1	0.03	10	1.13	245	1	0.02	294	270	8	0.01	<2	3	8
ZZ05806		<10	<1	0.03	10	0.90	229	<1	0.02	194	250	9	0.01	<2	3	8
ZZ05807		<10	<1	0.02	10	0.94	311	<1	0.02	194	200	8	0.01	<2	2	7
ZZ05808		<10	<1	0.03	10	1.08	276	<1	0.02	280	270	8	0.02	<2	3	7
ZZ05809		<10	<1	0.03	10	0.89	219	1	0.02	172	310	9	0.02	<2	2	7
ZZ05810		<10	<1	0.02	10	0.80	202	<1	0.02	177	420	7	0.02	<2	1	9
ZZ05811		<10	<1	0.03	10	0.69	174	<1	0.02	165	270	8	0.02	<2	1	7
ZZ05812		<10	<1	0.03	10	0.95	246	1	0.02	200	250	10	0.01	<2	2	8
ZZ05813		<10	<1	0.02	10	1.16	189	<1	0.02	225	160	7	0.01	<2	2	7
ZZ05814		<10	<1	0.02	10	1.19	230	<1	0.02	261	230	7	0.01	<2	3	7
ZZ05815		<10	<1	0.03	10	0.84	234	1	0.02	177	310	9	0.02	<2	2	8
ZZ05816		<10	<1	0.03	10	0.86	189	1	0.02	177	210	8	0.02	<2	2	7
ZZ05817		10	<1	0.03	10	1.24	297	1	0.02	267	220	9	0.01	<2	3	7
ZZ05818		<10	<1	0.03	10	1.15	259	<1	0.02	274	300	8	0.02	<2	3	8
ZZ05819		<10	1	0.03	10	0.93	217	1	0.02	205	240	8	0.01	<2	3	7
ZZ05820		<10	<1	0.03	10	0.62	152	<1	0.02	97	170	9	0.01	<2	2	8



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Page: 4 - C
 Total # Pages: 7 (A - C)
 Finalized Date: 9- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05781		<20	0.05	<10	<10	41	<10	55
ZZ05782		<20	0.05	<10	<10	34	<10	46
ZZ05783		<20	0.04	<10	<10	39	<10	56
ZZ05784		<20	0.06	<10	<10	39	<10	55
ZZ05785		<20	0.14	<10	<10	92	<10	89
ZZ05786		<20	0.08	<10	<10	89	<10	88
ZZ05787		<20	0.12	<10	<10	84	<10	80
ZZ05788		<20	0.16	<10	<10	82	<10	95
ZZ05789		<20	0.11	<10	<10	54	<10	70
ZZ05790		<20	0.14	<10	<10	53	<10	70
ZZ05791		<20	0.10	<10	<10	50	<10	68
ZZ05792		<20	0.07	<10	<10	48	<10	59
ZZ05793		<20	0.05	<10	<10	47	<10	49
ZZ05794		<20	0.04	<10	<10	52	<10	126
ZZ05795		<20	0.05	<10	<10	39	<10	61
ZZ05796		<20	0.05	<10	<10	44	<10	55
ZZ05797		<20	0.03	<10	<10	32	<10	51
ZZ05798		<20	0.03	<10	<10	37	<10	85
ZZ05799		<20	0.07	<10	<10	43	<10	66
ZZ05800		<20	0.09	<10	<10	45	<10	56
ZZ05801		<20	0.04	<10	<10	44	<10	39
ZZ05802		<20	0.03	<10	<10	42	<10	37
ZZ05803		<20	0.04	<10	<10	47	<10	50
ZZ05804		<20	0.04	<10	<10	46	<10	42
ZZ05805		<20	0.04	<10	<10	44	<10	52
ZZ05806		<20	0.04	<10	<10	42	<10	47
ZZ05807		<20	0.04	<10	<10	37	<10	37
ZZ05808		<20	0.05	<10	<10	42	<10	50
ZZ05809		<20	0.05	<10	<10	49	<10	45
ZZ05810		<20	0.02	<10	<10	29	<10	46
ZZ05811		<20	0.03	<10	<10	34	<10	39
ZZ05812		<20	0.05	<10	<10	44	<10	55
ZZ05813		<20	0.04	<10	<10	34	<10	31
ZZ05814		<20	0.05	<10	<10	42	<10	44
ZZ05815		<20	0.05	<10	<10	47	<10	60
ZZ05816		<20	0.05	<10	<10	45	<10	43
ZZ05817		<20	0.06	<10	<10	50	<10	43
ZZ05818		<20	0.05	<10	<10	46	<10	51
ZZ05819		<20	0.06	<10	<10	54	<10	50
ZZ05820		<20	0.03	<10	<10	28	<10	41



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Page: 5 - A
Total # Pages: 7 (A - C)
Finalized Date: 9- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05821		0.28	0.003	<0.2	0.89	10	<10	80	<0.5	<2	0.08	<0.5	20	414	11	2.92
ZZ05822		0.30	0.028	<0.2	0.88	14	<10	70	<0.5	<2	0.06	<0.5	37	700	16	4.74
ZZ05823		0.30	0.006	<0.2	0.89	8	<10	70	<0.5	<2	0.11	<0.5	34	509	14	3.61
ZZ05824		0.28	0.007	<0.2	0.81	12	<10	90	<0.5	<2	0.05	<0.5	35	852	12	5.59
ZZ05825		0.16	0.004	<0.2	0.82	3	<10	80	<0.5	<2	0.07	<0.5	10	240	7	1.96
ZZ05826		0.44	0.003	<0.2	1.03	7	<10	70	<0.5	<2	0.06	<0.5	17	340	10	2.99
ZZ05827		0.28	0.013	<0.2	0.78	4	<10	60	<0.5	<2	0.06	<0.5	14	411	7	2.70
ZZ05828		0.32	0.037	<0.2	0.93	2	<10	70	<0.5	<2	0.07	<0.5	13	298	7	2.08
ZZ05829		0.38	0.012	<0.2	0.89	3	<10	80	<0.5	<2	0.07	<0.5	18	360	12	2.41
ZZ05830		0.28	0.003	<0.2	1.04	6	<10	120	<0.5	<2	0.06	<0.5	19	358	11	2.67
ZZ05831		0.18	0.005	<0.2	1.39	10	<10	180	<0.5	3	0.08	<0.5	54	530	19	4.53
ZZ05832		0.26	0.002	<0.2	0.76	10	<10	100	<0.5	3	0.04	<0.5	72	674	11	4.34
ZZ05833		0.22	0.004	<0.2	0.81	4	<10	70	<0.5	2	0.10	<0.5	20	285	9	2.30
ZZ05834		0.40	0.014	<0.2	1.04	3	<10	90	<0.5	3	0.07	<0.5	18	269	10	2.12
ZZ05835		0.12	0.003	<0.2	0.77	10	<10	60	<0.5	<2	0.04	<0.5	37	667	7	4.21
ZZ05836		0.28	0.012	<0.2	0.80	4	<10	80	<0.5	2	0.10	<0.5	13	228	8	1.91
ZZ05837		0.20	<0.001	<0.2	0.91	4	<10	70	<0.5	2	0.03	<0.5	6	148	4	1.85
ZZ05838		0.28	<0.001	<0.2	0.89	6	<10	80	<0.5	<2	0.05	<0.5	16	344	12	2.31
ZZ05839		0.24	<0.001	<0.2	0.45	<2	<10	40	<0.5	2	0.03	<0.5	2	57	2	1.18
ZZ05840		0.32	0.010	<0.2	1.08	3	<10	110	<0.5	<2	0.08	<0.5	16	268	13	1.77
ZZ05841		0.14	0.370	<0.2	0.84	3	<10	40	<0.5	<2	0.03	<0.5	12	373	6	2.45
ZZ05842		0.16	0.011	<0.2	0.87	12	<10	90	<0.5	2	0.09	<0.5	30	500	17	3.34
ZZ05843		0.32	0.002	<0.2	1.26	6	<10	110	<0.5	2	0.06	<0.5	18	212	9	2.81
ZZ05844		0.26	0.005	<0.2	1.22	9	<10	60	<0.5	<2	0.06	<0.5	22	344	14	3.53
ZZ05845		0.36	0.002	<0.2	1.35	7	<10	90	<0.5	2	0.06	<0.5	19	302	14	2.77
ZZ05846		0.24	0.004	<0.2	1.07	10	<10	70	<0.5	<2	0.06	<0.5	16	426	12	2.64
ZZ05847		0.30	0.003	<0.2	0.95	6	<10	90	<0.5	2	0.11	<0.5	15	258	12	1.92
ZZ05848		0.26	0.004	<0.2	1.34	3	<10	270	<0.5	2	0.11	0.6	9	292	17	1.55
ZZ05849		0.28	0.021	<0.2	1.38	<2	<10	200	0.5	<2	0.17	<0.5	15	502	36	1.92
ZZ05850		0.20	0.004	<0.2	1.27	3	<10	250	<0.5	2	0.26	<0.5	13	344	21	1.78
ZZ05851		0.36	0.004	0.2	2.24	21	<10	160	0.9	2	0.17	<0.5	11	99	33	3.55
ZZ05852		0.32	0.003	<0.2	2.03	22	<10	160	1.0	<2	0.18	<0.5	17	145	41	3.19
ZZ05853		0.34	0.009	<0.2	2.23	22	<10	240	1.6	<2	0.31	<0.5	20	174	47	3.53
ZZ05854		0.34	0.014	<0.2	1.80	20	<10	120	1.0	2	0.13	<0.5	15	112	29	3.07
ZZ05855		0.38	0.004	0.2	1.62	28	<10	110	0.9	2	0.09	<0.5	10	111	26	3.47
ZZ05856		0.32	0.006	<0.2	2.05	17	<10	110	0.9	2	0.10	<0.5	18	131	33	3.69
ZZ05857		0.32	0.037	<0.2	1.75	12	<10	130	0.8	<2	0.13	<0.5	19	135	26	3.43
ZZ05858		0.24	0.014	<0.2	1.77	21	<10	170	1.0	2	0.15	<0.5	27	155	30	3.73
ZZ05859		0.50	0.029	0.2	1.82	35	<10	180	1.4	2	0.34	<0.5	21	177	41	4.07
ZZ05860		0.28	0.002	<0.2	1.56	12	<10	80	<0.5	<2	0.06	<0.5	7	111	18	2.80



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Page: 5 - B
 Total # Pages: 7 (A - C)
 Finalized Date: 9- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05821		<10	<1	0.03	10	1.53	310	<1	0.02	317	340	7	0.02	<2	2	7
ZZ05822		<10	<1	0.03	<10	1.65	665	<1	0.02	443	430	8	0.02	<2	3	6
ZZ05823		<10	<1	0.03	10	1.95	544	<1	0.02	425	430	8	0.02	<2	3	8
ZZ05824		<10	<1	0.03	10	1.25	700	<1	0.02	444	620	8	0.02	<2	2	6
ZZ05825		<10	<1	0.03	10	0.77	198	<1	0.02	153	310	6	0.02	<2	2	7
ZZ05826		<10	<1	0.02	10	1.06	275	<1	0.02	218	180	9	0.01	<2	2	7
ZZ05827		<10	<1	0.02	10	0.97	200	<1	0.02	208	160	8	0.01	<2	2	6
ZZ05828		<10	<1	0.03	10	1.05	197	<1	0.02	195	150	8	0.01	<2	2	8
ZZ05829		<10	<1	0.02	10	1.20	239	1	0.02	259	170	10	0.01	<2	2	11
ZZ05830		<10	<1	0.04	10	1.26	321	<1	0.03	276	380	5	0.02	2	2	11
ZZ05831		<10	<1	0.05	10	3.10	756	1	0.02	633	1080	9	0.05	<2	3	14
ZZ05832		<10	<1	0.03	<10	4.04	823	<1	0.02	752	390	2	0.02	2	4	9
ZZ05833		<10	<1	0.02	10	1.47	300	<1	0.02	281	290	4	0.01	<2	2	11
ZZ05834		<10	<1	0.02	10	1.06	317	<1	0.02	251	280	6	0.01	<2	2	10
ZZ05835		<10	<1	0.02	10	1.88	417	<1	0.02	418	310	5	0.02	<2	2	7
ZZ05836		<10	<1	0.02	10	0.75	209	<1	0.02	180	280	2	0.01	<2	2	11
ZZ05837		10	<1	0.02	10	0.38	146	<1	0.02	73	170	7	0.01	<2	1	8
ZZ05838		<10	<1	0.02	10	1.03	236	<1	0.02	236	210	5	0.01	<2	2	9
ZZ05839		<10	<1	<0.01	<10	0.50	122	<1	<0.01	38	110	4	<0.01	2	1	6
ZZ05840		<10	<1	0.02	10	1.04	216	<1	0.02	185	200	5	0.01	2	2	10
ZZ05841		<10	<1	0.02	10	0.87	172	<1	0.02	196	230	3	0.01	2	2	6
ZZ05842		<10	<1	0.03	10	1.92	467	<1	0.02	428	630	6	0.03	2	2	12
ZZ05843		<10	<1	0.03	10	0.92	240	<1	0.02	231	250	4	0.01	<2	2	10
ZZ05844		<10	<1	0.03	10	1.40	349	<1	0.02	327	350	6	0.01	<2	2	10
ZZ05845		<10	<1	0.02	10	1.19	219	<1	0.02	331	180	6	0.01	<2	2	10
ZZ05846		<10	<1	0.02	10	1.09	213	<1	0.02	276	260	4	0.01	<2	2	9
ZZ05847		<10	<1	0.03	10	0.84	228	<1	0.02	174	360	4	0.01	2	2	13
ZZ05848		<10	<1	0.03	20	0.71	127	<1	0.02	138	150	10	0.02	<2	4	13
ZZ05849		<10	<1	0.03	10	1.13	155	<1	0.02	238	300	12	0.01	<2	4	14
ZZ05850		<10	<1	0.05	20	0.98	143	<1	0.02	194	650	11	0.04	<2	4	19
ZZ05851		10	<1	0.20	10	0.76	354	<1	0.03	58	700	13	0.03	<2	4	15
ZZ05852		10	<1	0.23	10	1.20	334	<1	0.03	126	500	15	0.02	2	5	15
ZZ05853		10	<1	0.33	20	1.76	529	<1	0.05	167	540	12	0.02	<2	9	27
ZZ05854		10	<1	0.19	10	0.96	291	<1	0.03	127	360	15	0.02	2	5	12
ZZ05855		10	<1	0.15	10	0.71	245	<1	0.05	67	520	14	0.02	2	4	10
ZZ05856		10	<1	0.09	10	1.35	292	<1	0.04	184	240	17	0.02	<2	5	13
ZZ05857		10	<1	0.14	10	1.76	355	<1	0.03	279	320	11	0.02	<2	5	15
ZZ05858		10	<1	0.23	10	2.13	665	<1	0.03	357	490	15	0.03	<2	6	16
ZZ05859		10	<1	0.27	10	1.48	533	<1	0.05	241	470	15	0.04	<2	7	17
ZZ05860		10	<1	0.10	10	0.56	200	<1	0.02	39	380	13	0.03	<2	2	9



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Page: 5 - C
 Total # Pages: 7 (A - C)
 Finalized Date: 9- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05821		<20	0.03	<10	<10	33	<10	42
ZZ05822		<20	0.04	<10	<10	49	<10	49
ZZ05823		<20	0.04	<10	<10	36	<10	54
ZZ05824		<20	0.04	<10	<10	57	<10	61
ZZ05825		<20	0.04	<10	<10	30	<10	40
ZZ05826		<20	0.05	<10	<10	41	<10	48
ZZ05827		<20	0.05	<10	<10	35	<10	36
ZZ05828		<20	0.04	<10	<10	30	<10	40
ZZ05829		<20	0.04	<10	<10	32	<10	44
ZZ05830		<20	0.04	<10	<10	38	<10	50
ZZ05831		<20	0.03	<10	<10	43	<10	68
ZZ05832		<20	0.03	<10	<10	36	<10	76
ZZ05833		<20	0.04	<10	<10	29	<10	39
ZZ05834		<20	0.04	<10	<10	34	<10	39
ZZ05835		<20	0.03	<10	<10	44	<10	56
ZZ05836		<20	0.03	<10	<10	26	<10	36
ZZ05837		<20	0.06	<10	<10	63	<10	27
ZZ05838		<20	0.03	<10	<10	34	<10	38
ZZ05839		<20	0.01	<10	<10	7	<10	6
ZZ05840		<20	0.03	<10	<10	33	<10	31
ZZ05841		<20	0.03	<10	<10	57	<10	24
ZZ05842		<20	0.03	<10	<10	45	<10	42
ZZ05843		<20	0.04	<10	<10	39	<10	49
ZZ05844		<20	0.04	<10	<10	44	<10	61
ZZ05845		<20	0.04	<10	<10	35	<10	46
ZZ05846		<20	0.03	<10	<10	38	<10	42
ZZ05847		<20	0.03	<10	<10	30	<10	40
ZZ05848		<20	0.03	<10	<10	39	<10	48
ZZ05849		<20	0.05	<10	<10	51	<10	55
ZZ05850		<20	0.04	<10	<10	42	<10	69
ZZ05851		<20	0.14	<10	<10	79	10	80
ZZ05852		<20	0.14	<10	<10	71	10	63
ZZ05853		<20	0.17	<10	<10	87	<10	74
ZZ05854		<20	0.13	<10	<10	62	10	59
ZZ05855		<20	0.17	<10	<10	85	10	67
ZZ05856		<20	0.14	<10	<10	70	<10	69
ZZ05857		<20	0.12	<10	<10	60	<10	71
ZZ05858		<20	0.13	<10	<10	61	<10	75
ZZ05859		<20	0.16	<10	<10	75	<10	77
ZZ05860		<20	0.14	<10	<10	76	<10	53



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Page: 6 - A
Total # Pages: 7 (A - C)
Finalized Date: 9- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05861		0.26	0.022	<0.2	2.61	51	<10	180	1.5	2	0.16	<0.5	32	213	40	4.86
ZZ05862		0.34	0.005	<0.2	2.36	97	<10	120	1.4	<2	0.13	<0.5	26	166	27	4.48
ZZ05863		0.38	0.027	<0.2	2.55	21	<10	140	1.2	<2	0.09	<0.5	14	124	32	5.09
ZZ05864		0.36	0.022	<0.2	3.10	43	<10	250	1.5	<2	0.21	<0.5	27	241	50	4.82
ZZ05865		0.40	0.008	<0.2	2.32	41	<10	110	0.9	<2	0.18	<0.5	28	175	51	4.62
ZZ05866		0.34	0.013	<0.2	2.06	77	<10	160	1.1	<2	0.13	<0.5	16	73	19	4.06
ZZ05867		0.36	0.019	<0.2	1.42	34	<10	70	0.6	<2	0.09	<0.5	32	289	28	4.12
ZZ05868		0.28	0.006	<0.2	2.53	29	<10	140	0.9	<2	0.07	<0.5	29	186	30	5.92
ZZ05869		0.30	0.002	<0.2	4.19	61	<10	210	4.1	<2	0.12	<0.5	32	289	51	5.82
ZZ05870		0.28	0.002	<0.2	3.73	36	<10	150	4.3	<2	0.11	<0.5	20	234	35	4.94
ZZ05871		0.32	0.005	<0.2	1.94	41	<10	90	1.0	<2	0.07	<0.5	25	333	39	4.86
ZZ05872		0.20	0.007	<0.2	3.09	58	<10	190	0.9	<2	0.08	<0.5	14	201	36	5.03
ZZ05873		0.36	0.003	<0.2	1.95	18	<10	110	0.6	<2	0.09	<0.5	15	119	24	3.65
ZZ05874		0.34	0.269	<0.2	1.44	41	<10	90	0.6	<2	0.15	<0.5	43	359	15	6.79
ZZ05875		0.30	0.002	<0.2	1.59	22	<10	60	<0.5	<2	0.10	<0.5	12	177	24	3.93
ZZ05876		0.28	0.002	0.2	2.51	35	<10	100	0.7	<2	0.10	<0.5	18	191	27	4.28
ZZ05877		0.26	0.003	<0.2	2.17	20	<10	80	0.5	<2	0.11	<0.5	15	163	34	4.04
ZZ05878		0.24	0.001	<0.2	1.47	10	<10	60	<0.5	<2	0.07	<0.5	7	86	16	2.34
ZZ05879		0.30	<0.001	<0.2	2.67	11	<10	80	<0.5	<2	0.16	<0.5	17	139	38	3.61
ZZ05880		0.38	0.004	<0.2	0.64	21	<10	20	<0.5	<2	0.37	<0.5	38	399	22	2.79
ZZ05881		0.30	0.010	<0.2	1.48	11	<10	80	<0.5	<2	0.08	<0.5	48	581	26	6.13
ZZ05882		0.44	0.003	<0.2	1.80	8	<10	80	<0.5	<2	0.11	<0.5	32	342	27	4.61
ZZ05883		0.28	0.021	<0.2	1.07	9	<10	70	<0.5	<2	0.06	<0.5	45	572	24	5.58
ZZ05884		0.26	0.023	0.2	1.18	6	<10	60	<0.5	<2	0.11	<0.5	30	423	34	4.14
ZZ05885		0.32	0.003	<0.2	1.76	7	<10	40	<0.5	<2	0.12	<0.5	14	263	18	3.79
ZZ05886		0.24	0.002	0.2	1.53	7	<10	70	<0.5	<2	0.16	<0.5	39	485	32	4.87
ZZ05887		0.42	0.003	<0.2	1.30	8	<10	80	<0.5	<2	0.11	<0.5	42	570	31	4.93
ZZ05888		0.60	0.261	<0.2	0.92	4	<10	60	<0.5	<2	0.13	<0.5	20	325	13	2.57
ZZ05889		0.36	0.002	<0.2	0.88	3	<10	70	<0.5	<2	0.13	<0.5	15	280	10	2.28
ZZ05890		0.38	0.004	<0.2	0.85	15	<10	170	<0.5	<2	0.12	<0.5	55	831	13	4.33
ZZ05891		0.34	0.002	<0.2	0.89	4	<10	70	<0.5	<2	0.15	<0.5	15	292	10	2.24
ZZ05892		0.52	0.009	<0.2	0.86	4	<10	60	<0.5	<2	0.13	<0.5	15	375	9	2.49
ZZ05893		0.36	0.011	<0.2	0.69	8	<10	70	<0.5	<2	0.09	<0.5	41	685	7	3.80
ZZ05894		0.42	0.002	<0.2	0.86	4	<10	80	<0.5	<2	0.15	<0.5	13	270	8	2.13
ZZ05895		0.36	0.006	<0.2	0.95	6	<10	70	<0.5	<2	0.08	<0.5	14	342	7	2.24
ZZ05896		0.38	0.003	<0.2	1.01	3	<10	100	<0.5	<2	0.05	<0.5	15	302	6	2.17
ZZ05897		0.34	0.003	<0.2	1.07	22	<10	120	<0.5	<2	0.11	<0.5	39	521	13	3.54
ZZ05898		0.40	0.133	<0.2	0.82	7	<10	60	<0.5	<2	0.08	<0.5	23	495	14	3.11
ZZ05899		0.38	0.004	<0.2	0.86	8	<10	60	<0.5	<2	0.07	<0.5	24	500	10	3.38
ZZ05900		0.32	0.003	<0.2	0.78	3	<10	80	<0.5	<2	0.06	<0.5	20	310	3	2.11



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Page: 6 - B
Total # Pages: 7 (A - C)
Finalized Date: 9- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05861		10	<1	0.30	10	2.52	726	<1	0.04	356	450	16	0.03	<2	8	17
ZZ05862		10	<1	0.17	10	1.20	570	<1	0.03	243	270	27	0.02	<2	6	17
ZZ05863		10	<1	0.34	10	1.13	497	<1	0.03	66	620	14	0.04	<2	7	10
ZZ05864		10	<1	0.59	10	2.39	533	<1	0.05	121	540	19	0.03	<2	7	11
ZZ05865		10	<1	0.18	10	1.95	561	<1	0.03	143	200	13	0.02	2	8	8
ZZ05866		10	<1	0.44	10	1.03	782	<1	0.02	43	510	12	0.02	<2	6	8
ZZ05867		<10	<1	0.09	10	1.94	697	<1	0.02	225	260	7	0.01	<2	7	5
ZZ05868		10	<1	0.11	20	1.85	772	<1	0.02	185	340	11	0.02	<2	7	7
ZZ05869		10	<1	0.50	10	2.70	527	<1	0.03	175	260	13	0.03	3	13	12
ZZ05870		10	<1	0.41	10	1.90	463	<1	0.02	105	430	20	0.02	<2	13	8
ZZ05871		10	<1	0.11	10	1.25	526	<1	0.02	253	350	12	0.01	<2	7	4
ZZ05872		10	<1	0.35	10	1.08	339	<1	0.02	86	500	15	0.07	<2	7	8
ZZ05873		10	<1	0.10	10	1.00	402	<1	0.02	126	280	13	0.02	<2	5	7
ZZ05874		<10	<1	0.04	10	2.49	1135	<1	0.02	370	960	9	0.05	<2	9	9
ZZ05875		10	<1	0.08	10	0.65	285	<1	0.03	98	580	11	0.02	<2	4	4
ZZ05876		10	<1	0.15	10	0.84	374	<1	0.02	140	530	10	0.03	2	5	7
ZZ05877		10	<1	0.11	10	1.05	313	<1	0.02	99	380	11	0.02	<2	5	6
ZZ05878		10	<1	0.07	10	0.43	140	<1	0.02	40	240	8	0.02	<2	3	5
ZZ05879		10	<1	0.10	10	1.56	215	<1	0.03	71	290	6	0.01	<2	5	6
ZZ05880		<10	<1	0.04	<10	2.13	577	<1	0.01	640	160	4	0.01	<2	6	16
ZZ05881		<10	<1	0.04	10	2.00	1505	<1	0.02	429	320	8	0.01	2	7	4
ZZ05882		10	<1	0.04	10	1.95	748	<1	0.02	328	230	8	0.01	<2	6	6
ZZ05883		<10	<1	0.03	10	1.39	1015	<1	0.02	458	270	4	0.01	<2	7	4
ZZ05884		<10	<1	0.02	10	2.02	787	<1	0.02	324	430	5	0.02	<2	6	5
ZZ05885		10	<1	0.03	10	1.03	234	<1	0.03	144	230	9	0.02	<2	4	5
ZZ05886		<10	<1	0.03	10	1.82	594	<1	0.03	462	330	11	0.01	<2	5	6
ZZ05887		<10	<1	0.03	10	1.74	773	<1	0.02	595	330	7	0.01	<2	6	9
ZZ05888		<10	<1	0.03	10	1.10	297	<1	0.01	274	360	5	<0.01	<2	2	8
ZZ05889		<10	<1	0.03	10	1.10	232	<1	0.01	229	340	6	<0.01	<2	2	9
ZZ05890		<10	<1	0.03	10	2.77	805	<1	0.01	663	1140	5	0.06	<2	3	12
ZZ05891		<10	<1	0.03	10	0.99	235	<1	0.01	245	460	5	0.01	<2	2	10
ZZ05892		<10	<1	0.03	10	1.19	205	<1	0.01	293	310	6	0.01	<2	2	10
ZZ05893		<10	<1	0.02	10	2.95	485	<1	0.01	513	310	5	0.01	<2	2	7
ZZ05894		<10	<1	0.03	10	0.95	194	<1	0.02	200	320	5	0.01	<2	2	11
ZZ05895		<10	<1	0.03	10	1.08	199	<1	0.01	194	170	6	0.01	<2	2	8
ZZ05896		<10	<1	0.03	10	1.43	236	<1	0.01	184	160	5	0.01	<2	2	7
ZZ05897		<10	<1	0.03	10	2.85	685	<1	0.02	476	1030	4	0.04	<2	2	10
ZZ05898		<10	<1	0.03	10	1.42	333	<1	0.01	324	280	5	<0.01	<2	3	7
ZZ05899		<10	<1	0.03	10	1.67	343	<1	0.01	335	280	5	<0.01	<2	2	7
ZZ05900		<10	<1	0.03	10	1.53	316	<1	0.01	207	160	6	<0.01	<2	2	8



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Page: 6 - C
 Total # Pages: 7 (A - C)
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 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05861		<20	0.19	<10	<10	98	<10	82
ZZ05862		<20	0.18	<10	<10	98	<10	80
ZZ05863		<20	0.25	<10	<10	113	<10	109
ZZ05864		<20	0.28	<10	<10	133	10	95
ZZ05865		<20	0.16	<10	<10	102	<10	80
ZZ05866		<20	0.24	<10	<10	98	<10	141
ZZ05867		<20	0.11	<10	<10	68	<10	46
ZZ05868		<20	0.16	<10	<10	70	<10	83
ZZ05869		<20	0.30	<10	<10	150	20	98
ZZ05870		<20	0.22	<10	<10	130	20	76
ZZ05871		<20	0.14	<10	<10	86	10	82
ZZ05872		<20	0.19	<10	<10	93	<10	95
ZZ05873		<20	0.14	<10	<10	67	<10	65
ZZ05874		<20	0.04	<10	<10	40	<10	64
ZZ05875		<20	0.13	<10	<10	84	<10	54
ZZ05876		<20	0.12	<10	<10	69	<10	72
ZZ05877		<20	0.13	<10	<10	82	<10	61
ZZ05878		<20	0.09	<10	<10	49	<10	32
ZZ05879		<20	0.19	<10	<10	97	<10	49
ZZ05880		<20	0.04	<10	<10	28	<10	18
ZZ05881		<20	0.06	<10	<10	57	<10	40
ZZ05882		<20	0.10	<10	<10	67	<10	48
ZZ05883		<20	0.04	<10	<10	38	<10	30
ZZ05884		<20	0.04	<10	<10	42	<10	37
ZZ05885		<20	0.09	<10	<10	72	<10	66
ZZ05886		<20	0.06	<10	<10	59	<10	43
ZZ05887		<20	0.06	<10	<10	50	<10	42
ZZ05888		<20	0.05	<10	<10	32	<10	39
ZZ05889		<20	0.05	<10	<10	29	<10	38
ZZ05890		<20	0.02	<10	<10	35	<10	45
ZZ05891		<20	0.04	<10	<10	29	<10	37
ZZ05892		<20	0.05	<10	<10	28	<10	38
ZZ05893		<20	0.03	<10	<10	33	<10	53
ZZ05894		<20	0.05	<10	<10	27	<10	39
ZZ05895		<20	0.04	<10	<10	32	<10	38
ZZ05896		<20	0.04	<10	<10	34	<10	41
ZZ05897		<20	0.02	<10	<10	30	<10	72
ZZ05898		<20	0.04	<10	<10	35	<10	44
ZZ05899		<20	0.04	<10	<10	37	<10	42
ZZ05900		<20	0.04	<10	<10	28	<10	39



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Page: 7 - A
Total # Pages: 7 (A - C)
Finalized Date: 9- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05901		0.28	0.003	0.6	2.23	12	<10	150	0.6	<2	0.10	<0.5	10	311	24	2.15
ZZ05902		0.32	0.003	<0.2	1.18	5	<10	130	<0.5	<2	0.14	<0.5	11	126	14	2.08
ZZ05903		0.28	0.002	<0.2	1.28	6	<10	150	<0.5	2	0.14	<0.5	17	206	18	2.39
ZZ05904		0.36	0.011	<0.2	1.06	4	<10	70	<0.5	<2	0.08	<0.5	11	176	21	1.92
ZZ05905		0.36	0.002	<0.2	1.21	2	<10	80	<0.5	<2	0.09	<0.5	11	170	17	2.11
ZZ05906		0.40	0.004	<0.2	1.36	10	<10	190	0.5	2	0.22	<0.5	22	175	27	3.07
ZZ05907		0.34	0.003	<0.2	1.31	9	<10	130	<0.5	<2	0.20	<0.5	25	394	35	2.09
ZZ05908		0.28	0.009	0.3	1.57	39	<10	50	<0.5	<2	0.03	<0.5	11	220	14	3.34
ZZ05909		0.16	0.003	0.2	1.78	20	<10	150	0.7	2	0.19	<0.5	24	194	13	2.81
ZZ05910		0.26	0.002	0.3	2.05	13	<10	190	0.8	<2	0.29	<0.5	30	197	16	3.13
ZZ05911		0.18	<0.001	0.5	2.89	7	<10	230	0.9	<2	0.13	<0.5	19	99	18	2.45
ZZ05912		0.30	0.002	0.7	2.02	6	<10	90	0.5	2	0.07	<0.5	7	87	14	2.44
ZZ05913		0.36	0.002	<0.2	1.47	6	<10	80	<0.5	<2	0.09	<0.5	11	143	13	2.26
ZZ05914		0.26	0.002	<0.2	1.42	6	<10	90	<0.5	<2	0.11	<0.5	14	145	17	2.41
ZZ05915		0.38	0.003	<0.2	1.36	5	<10	70	<0.5	<2	0.07	<0.5	11	156	10	2.10
ZZ05916		0.36	0.002	<0.2	1.11	3	<10	90	<0.5	<2	0.10	<0.5	16	199	15	2.37
ZZ05917		0.20	0.003	<0.2	1.29	6	<10	90	<0.5	<2	0.13	<0.5	13	150	17	2.29
ZZ05918		0.44	0.005	0.4	1.56	5	<10	160	0.5	<2	0.25	<0.5	10	198	17	2.28
ZZ05919		0.22	0.002	<0.2	1.26	2	<10	110	<0.5	<2	0.13	<0.5	8	143	9	1.73
ZZ05920		0.28	0.004	<0.2	1.17	5	<10	150	<0.5	<2	0.20	<0.5	23	295	16	2.63
ZZ05921		0.30	0.056	<0.2	1.12	2	<10	190	<0.5	2	0.25	<0.5	17	281	19	1.80
ZZ05922		0.38	0.043	<0.2	1.47	82	<10	220	<0.5	<2	0.21	<0.5	18	281	27	3.09
ZZ05923		0.26	0.002	<0.2	1.85	5	<10	190	<0.5	<2	0.16	<0.5	14	305	63	2.09
ZZ05924		0.20	0.002	<0.2	1.07	6	<10	200	<0.5	<2	0.13	0.6	9	532	16	1.52
ZZ05925		0.30	0.008	<0.2	1.16	6	<10	240	<0.5	<2	0.16	<0.5	36	308	13	2.58
ZZ05926		0.28	0.006	<0.2	1.37	7	<10	120	<0.5	<2	0.14	<0.5	14	240	18	3.03
ZZ05927		0.18	0.020	<0.2	0.80	<2	<10	60	<0.5	<2	0.07	<0.5	3	88	8	0.74
ZZ05928		0.22	0.001	<0.2	1.91	179	<10	290	0.5	<2	0.25	<0.5	42	281	13	8.42
ZZ05929		0.24	0.003	<0.2	1.27	15	<10	70	<0.5	2	0.10	<0.5	23	309	19	3.33
ZZ05930		0.34	0.004	0.2	1.72	54	<10	260	<0.5	<2	0.19	<0.5	24	277	45	3.45
ZZ05931		0.12	0.003	<0.2	1.15	21	<10	110	<0.5	<2	0.13	<0.5	40	706	67	3.91
ZZ05932		0.18	0.017	<0.2	1.61	7	<10	120	<0.5	2	0.07	<0.5	14	190	28	2.65
ZZ05933		0.14	<0.001	<0.2	0.91	3	<10	70	<0.5	<2	0.05	<0.5	18	273	9	1.92
ZZ05934		0.32	0.015	<0.2	1.28	3	<10	90	<0.5	<2	0.07	<0.5	14	221	23	1.97
ZZ05935		0.32	0.004	<0.2	1.45	5	<10	50	<0.5	<2	0.10	<0.5	14	220	25	2.42
ZZ05936		0.20	0.003	3.6	1.08	8	<10	110	<0.5	<2	0.08	<0.5	17	453	13	2.82



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Page: 7 - B
 Total # Pages: 7 (A - C)
 Finalized Date: 9- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05901		<10	<1	0.04	10	0.97	110	1	0.01	141	590	13	0.04	<2	3	11
ZZ05902		<10	<1	0.03	20	0.74	249	<1	0.01	107	310	7	<0.01	<2	3	14
ZZ05903		<10	<1	0.03	10	0.96	247	<1	0.01	188	270	7	<0.01	<2	3	15
ZZ05904		<10	<1	0.03	10	0.72	164	<1	<0.01	145	230	5	<0.01	<2	2	8
ZZ05905		<10	<1	0.03	10	0.75	181	<1	0.01	134	250	6	<0.01	<2	2	10
ZZ05906		<10	<1	0.07	20	0.97	502	1	0.02	212	560	8	<0.01	<2	4	18
ZZ05907		<10	<1	0.05	10	1.03	357	<1	0.01	234	410	9	0.08	2	4	14
ZZ05908		10	<1	0.03	10	0.58	165	<1	0.01	159	330	9	0.01	<2	3	7
ZZ05909		10	<1	0.06	10	1.33	250	<1	0.01	161	450	11	0.16	<2	3	12
ZZ05910		10	<1	0.06	10	0.90	625	1	0.03	134	810	11	0.10	<2	3	21
ZZ05911		10	<1	0.06	10	0.45	951	2	0.02	90	1680	5	0.10	<2	1	18
ZZ05912		10	<1	0.11	20	0.59	195	<1	0.01	51	440	12	0.02	<2	1	12
ZZ05913		<10	<1	0.03	20	0.59	188	<1	0.01	98	360	8	0.01	<2	2	9
ZZ05914		<10	<1	0.03	10	0.70	253	<1	0.01	124	450	7	0.01	<2	2	10
ZZ05915		<10	<1	0.03	10	0.60	171	<1	0.01	105	310	6	0.01	<2	2	8
ZZ05916		<10	<1	0.03	20	0.70	271	<1	0.01	168	230	6	0.01	<2	2	11
ZZ05917		<10	<1	0.04	20	0.65	224	<1	<0.01	135	440	6	<0.01	<2	3	11
ZZ05918		<10	<1	0.04	20	0.74	168	<1	0.01	132	560	7	0.02	<2	3	13
ZZ05919		<10	<1	0.02	20	0.56	102	<1	0.01	94	500	9	0.01	<2	2	11
ZZ05920		<10	<1	0.03	10	1.21	399	<1	0.01	257	260	6	0.01	<2	4	13
ZZ05921		<10	<1	0.03	20	0.91	144	<1	0.02	228	540	11	0.01	<2	3	16
ZZ05922		<10	<1	0.03	10	1.07	490	2	0.02	197	300	7	0.01	<2	5	14
ZZ05923		<10	<1	0.03	10	1.31	165	<1	0.02	172	150	8	0.03	<2	5	11
ZZ05924		<10	<1	0.02	10	0.97	81	<1	0.01	138	70	9	0.01	<2	4	10
ZZ05925		<10	<1	0.03	10	0.79	2010	<1	0.02	177	360	8	0.01	<2	3	12
ZZ05926		<10	<1	0.04	10	1.00	235	<1	0.01	177	310	6	0.02	<2	2	11
ZZ05927		<10	<1	0.03	10	0.26	46	<1	0.02	35	420	3	0.03	<2	1	7
ZZ05928		<10	<1	0.03	10	0.74	2090	<1	0.02	216	1680	4	0.09	<2	2	16
ZZ05929		<10	<1	0.04	10	1.08	415	<1	0.01	243	490	6	0.01	<2	2	10
ZZ05930		<10	<1	0.05	20	1.20	464	<1	0.02	350	690	7	0.02	<2	5	15
ZZ05931		<10	<1	0.04	10	1.70	792	<1	0.02	449	660	4	0.03	<2	2	12
ZZ05932		<10	<1	0.03	10	1.18	319	<1	0.01	113	230	7	<0.01	<2	3	10
ZZ05933		<10	<1	0.03	10	0.95	345	<1	0.02	153	180	3	<0.01	<2	2	6
ZZ05934		<10	<1	0.03	10	1.16	208	<1	0.01	189	180	8	0.02	<2	3	7
ZZ05935		<10	<1	0.02	10	1.01	190	<1	0.01	180	310	7	0.02	<2	3	7
ZZ05936		<10	<1	0.03	10	1.40	268	<1	0.01	281	260	7	0.02	<2	3	8



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Page: 7 - C
 Total # Pages: 7 (A - C)
 Finalized Date: 9- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171436

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05901		<20	0.03	<10	<10	54	<10	50
ZZ05902		<20	0.05	<10	<10	33	<10	55
ZZ05903		<20	0.04	<10	<10	37	<10	51
ZZ05904		<20	0.04	<10	<10	30	<10	42
ZZ05905		<20	0.04	<10	<10	33	<10	47
ZZ05906		<20	0.06	<10	<10	43	<10	72
ZZ05907		<20	0.05	<10	<10	54	<10	62
ZZ05908		<20	0.04	<10	<10	51	<10	44
ZZ05909		<20	0.04	<10	<10	48	<10	65
ZZ05910		<20	0.06	<10	<10	56	<10	69
ZZ05911		<20	0.02	<10	<10	45	<10	46
ZZ05912		<20	0.05	<10	<10	47	<10	46
ZZ05913		<20	0.04	<10	<10	37	<10	43
ZZ05914		<20	0.04	<10	<10	36	<10	52
ZZ05915		<20	0.04	<10	<10	35	<10	40
ZZ05916		<20	0.05	<10	<10	32	<10	47
ZZ05917		<20	0.05	<10	<10	34	<10	58
ZZ05918		<20	0.05	<10	<10	37	<10	59
ZZ05919		<20	0.03	<10	<10	31	<10	35
ZZ05920		<20	0.04	<10	<10	35	<10	49
ZZ05921		<20	0.05	<10	<10	37	<10	54
ZZ05922		<20	0.04	<10	<10	45	<10	47
ZZ05923		<20	0.03	<10	<10	51	<10	57
ZZ05924		<20	0.03	<10	<10	34	<10	35
ZZ05925		<20	0.03	<10	<10	35	<10	45
ZZ05926		<20	0.04	<10	<10	47	<10	42
ZZ05927		<20	0.01	<10	<10	17	<10	12
ZZ05928		<20	0.02	<10	<10	81	<10	118
ZZ05929		<20	0.04	<10	<10	41	<10	58
ZZ05930		<20	0.04	<10	<10	52	<10	67
ZZ05931		<20	0.02	<10	<10	46	<10	52
ZZ05932		<20	0.04	<10	<10	53	<10	57
ZZ05933		<20	0.02	<10	<10	41	<10	25
ZZ05934		<20	0.03	<10	<10	42	<10	44
ZZ05935		<20	0.04	<10	<10	39	<10	39
ZZ05936		<20	0.03	<10	<10	39	<10	45



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Page: 1
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Account: F

CERTIFICATE WH11171437

Project: WLW Finlayson - Has/Vivi

P.O. No.:

This report is for 243 Soil samples submitted to our lab in Whitehorse, YT, Canada on 24- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
EXTRA- 01	Extra Sample received in Shipment
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ05951		0.32	0.001	0.2	2.02	9	<10	100	<0.5	<2	0.11	<0.5	16	204	34	3.50
ZZ05952		0.36	0.002	<0.2	0.89	2	<10	70	<0.5	<2	0.09	<0.5	33	483	10	3.28
ZZ05953		0.20	<0.001	<0.2	0.85	7	<10	120	<0.5	<2	0.06	<0.5	25	426	6	2.76
ZZ05954		0.16	<0.001	<0.2	0.30	8	<10	50	<0.5	<2	0.02	<0.5	83	1005	4	4.83
ZZ05955		0.18	0.002	<0.2	0.70	8	<10	80	<0.5	<2	0.05	<0.5	41	716	7	3.68
ZZ05956		0.22	<0.001	<0.2	1.22	7	<10	130	<0.5	<2	0.07	<0.5	36	629	12	4.18
ZZ05957		0.18	<0.001	<0.2	0.90	4	<10	120	<0.5	<2	0.06	<0.5	42	661	7	3.81
ZZ05958		0.22	0.003	<0.2	1.56	14	<10	220	<0.5	<2	0.10	<0.5	50	546	15	4.78
ZZ05959		0.24	0.001	<0.2	1.09	6	<10	120	<0.5	<2	0.07	<0.5	19	357	6	2.40
ZZ05960		0.24	0.001	<0.2	0.86	4	<10	60	<0.5	<2	0.05	<0.5	15	326	5	2.13
ZZ05961		0.22	0.006	<0.2	0.46	14	<10	30	<0.5	<2	0.03	<0.5	59	901	8	4.62
ZZ05962		0.26	0.001	<0.2	1.04	13	<10	90	<0.5	<2	0.05	<0.5	36	694	9	4.53
ZZ05963		0.18	0.001	<0.2	1.65	9	<10	200	<0.5	<2	0.06	<0.5	29	335	13	4.01
ZZ05964		0.18	0.069	<0.2	0.53	18	<10	50	<0.5	<2	0.04	<0.5	66	815	15	4.74
ZZ05965		0.32	0.001	<0.2	0.93	6	<10	60	<0.5	<2	0.05	<0.5	23	480	6	3.30
ZZ05966		0.24	0.443	<0.2	0.92	20	<10	90	<0.5	<2	0.05	<0.5	83	1035	15	6.74
ZZ05967		0.26	0.005	<0.2	0.85	22	<10	100	<0.5	<2	0.04	<0.5	98	1085	15	6.81
ZZ05968		0.34	0.008	<0.2	1.13	9	<10	70	<0.5	<2	0.07	<0.5	24	379	11	2.80
ZZ05969		0.30	0.003	<0.2	1.42	8	<10	60	<0.5	<2	0.06	<0.5	15	199	14	2.41
ZZ05970		0.44	0.001	<0.2	1.23	7	<10	40	<0.5	<2	0.07	<0.5	12	237	11	2.19
ZZ05971		0.24	0.002	<0.2	0.98	5	<10	50	<0.5	<2	0.05	<0.5	10	218	5	1.73
ZZ05972		0.28	0.005	<0.2	1.43	9	<10	50	<0.5	<2	0.08	<0.5	17	312	14	2.91
ZZ05973		0.28	0.005	<0.2	1.32	6	<10	70	<0.5	<2	0.06	<0.5	10	197	9	2.04
ZZ05974		0.32	0.003	<0.2	1.37	10	<10	60	<0.5	<2	0.07	<0.5	15	247	11	2.88
ZZ05975		0.28	0.005	<0.2	1.49	9	<10	80	<0.5	<2	0.07	<0.5	19	315	16	3.40
ZZ05976		0.46	0.004	<0.2	1.22	6	<10	70	<0.5	<2	0.06	<0.5	9	186	12	1.85
ZZ05977		0.30	0.002	<0.2	1.37	10	<10	40	<0.5	<2	0.06	<0.5	19	277	15	2.83
ZZ05978		0.34	0.002	<0.2	1.16	6	<10	40	<0.5	<2	0.04	<0.5	9	198	8	2.02
ZZ05979		0.36	0.004	<0.2	1.37	8	<10	50	<0.5	<2	0.06	<0.5	12	259	16	2.49
ZZ05980		0.34	0.004	<0.2	1.40	4	<10	50	<0.5	<2	0.05	<0.5	7	107	8	1.70
ZZ05981		0.26	0.004	<0.2	1.61	11	<10	70	<0.5	<2	0.06	<0.5	13	158	13	3.06
ZZ05982		0.40	0.023	<0.2	1.72	8	<10	60	<0.5	<2	0.06	<0.5	11	147	10	2.53
ZZ05983		0.28	0.002	<0.2	1.51	6	<10	50	<0.5	<2	0.07	<0.5	9	128	9	2.06
ZZ05984		0.28	0.002	<0.2	1.39	6	<10	40	<0.5	<2	0.05	<0.5	8	125	8	2.07
ZZ05985		0.36	0.003	<0.2	1.54	8	<10	70	<0.5	<2	0.07	<0.5	25	265	23	3.20
ZZ05986		0.42	0.002	<0.2	1.93	10	<10	70	<0.5	<2	0.07	<0.5	13	141	17	2.81
ZZ05987		0.38	0.002	<0.2	1.75	11	<10	50	<0.5	<2	0.05	<0.5	15	188	22	2.79
ZZ05988		0.30	0.004	<0.2	1.54	7	<10	60	<0.5	<2	0.05	<0.5	7	129	12	2.11
ZZ05989		0.24	0.043	<0.2	1.79	12	<10	80	<0.5	<2	0.06	<0.5	15	219	20	2.87
ZZ05990		0.20	0.002	<0.2	2.15	13	<10	60	<0.5	2	0.05	<0.5	10	204	28	3.46



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Page: 2 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05951		10	1	0.09	10	1.14	239	<1	0.02	100	390	10	0.04	<2	5	8
ZZ05952		<10	<1	0.03	10	3.37	419	<1	0.01	531	390	4	0.02	<2	3	9
ZZ05953		<10	1	0.04	10	1.65	360	<1	0.01	324	410	5	0.02	<2	2	10
ZZ05954		<10	<1	0.01	<10	4.83	1280	<1	0.01	893	230	5	0.01	<2	2	4
ZZ05955		<10	<1	0.03	10	2.57	592	<1	0.01	469	360	4	0.02	<2	2	8
ZZ05956		<10	<1	0.04	10	2.58	546	<1	0.01	558	460	7	0.02	<2	3	10
ZZ05957		<10	<1	0.03	10	2.56	901	<1	0.01	405	320	6	0.02	<2	2	8
ZZ05958		<10	<1	0.06	10	2.70	1195	<1	0.01	541	690	9	0.03	<2	4	13
ZZ05959		<10	<1	0.04	10	1.37	378	<1	0.01	214	280	6	0.02	<2	2	10
ZZ05960		<10	<1	0.02	10	1.10	288	<1	0.01	203	160	5	0.01	<2	2	8
ZZ05961		<10	<1	0.01	<10	1.97	1110	<1	0.01	488	300	4	0.01	<2	2	3
ZZ05962		<10	<1	0.03	10	1.45	712	<1	0.01	363	400	8	0.01	<2	3	7
ZZ05963		<10	<1	0.05	10	0.82	985	<1	0.01	217	650	9	0.02	<2	3	10
ZZ05964		<10	<1	0.02	<10	4.96	973	<1	0.01	767	420	4	0.02	<2	3	4
ZZ05965		<10	<1	0.02	10	1.23	351	<1	0.01	251	260	6	0.01	<2	2	6
ZZ05966		<10	<1	0.02	<10	3.24	1505	<1	0.01	729	630	7	0.02	<2	4	6
ZZ05967		<10	<1	0.02	<10	4.29	2020	<1	0.01	864	650	7	0.02	<2	4	6
ZZ05968		<10	<1	0.03	10	1.39	304	<1	0.01	293	250	7	0.01	<2	2	8
ZZ05969		<10	<1	0.03	10	0.66	191	<1	<0.01	172	300	8	0.02	<2	2	9
ZZ05970		<10	<1	0.02	10	0.88	169	<1	<0.01	179	240	7	0.01	<2	2	8
ZZ05971		<10	<1	0.02	10	0.93	171	<1	<0.01	135	190	5	0.02	<2	2	7
ZZ05972		<10	<1	0.03	10	1.16	222	<1	<0.01	260	350	7	0.02	<2	3	9
ZZ05973		<10	<1	0.03	10	0.68	171	<1	<0.01	132	230	7	0.02	<2	2	8
ZZ05974		<10	<1	0.03	10	0.89	221	<1	<0.01	174	350	7	0.02	<2	2	8
ZZ05975		10	1	0.03	10	1.09	218	1	0.02	260	250	12	0.01	<2	3	9
ZZ05976		10	<1	0.02	10	0.69	146	<1	<0.01	123	190	7	0.01	<2	2	8
ZZ05977		<10	<1	0.03	10	1.23	306	<1	0.01	214	330	6	0.02	<2	2	6
ZZ05978		<10	<1	0.02	10	0.67	132	<1	<0.01	143	230	6	0.02	<2	2	7
ZZ05979		10	<1	0.02	10	1.08	170	<1	<0.01	218	250	5	0.02	<2	2	7
ZZ05980		10	<1	0.02	10	0.39	100	<1	<0.01	72	200	8	0.02	<2	2	7
ZZ05981		10	<1	0.04	10	0.74	199	<1	<0.01	135	290	9	0.02	<2	2	9
ZZ05982		10	<1	0.04	10	0.59	167	<1	<0.01	101	310	9	0.02	<2	2	8
ZZ05983		10	1	0.03	10	0.52	143	<1	<0.01	89	320	8	0.02	<2	2	9
ZZ05984		10	1	0.03	10	0.49	186	<1	<0.01	68	230	7	0.02	<2	2	7
ZZ05985		<10	<1	0.03	10	2.27	351	<1	<0.01	344	250	6	0.02	<2	3	9
ZZ05986		<10	<1	0.03	10	0.73	213	<1	<0.01	117	380	8	0.02	<2	3	9
ZZ05987		10	1	0.03	10	0.82	211	<1	<0.01	191	270	7	0.02	<2	3	8
ZZ05988		10	1	0.03	10	0.53	216	<1	<0.01	72	300	9	0.02	<2	1	8
ZZ05989		10	<1	0.03	10	0.85	210	<1	0.01	229	310	8	0.02	<2	3	9
ZZ05990		10	<1	0.03	10	0.63	202	<1	<0.01	110	360	9	0.03	<2	3	8



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Page: 2 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 14- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05951		<20	0.11	<10	<10	89	<10	49
ZZ05952		<20	0.04	<10	<10	33	<10	48
ZZ05953		<20	0.03	<10	<10	30	<10	43
ZZ05954		<20	0.01	<10	<10	32	<10	62
ZZ05955		<20	0.03	<10	<10	35	<10	57
ZZ05956		<20	0.03	<10	<10	41	<10	47
ZZ05957		<20	0.04	<10	<10	43	<10	55
ZZ05958		<20	0.04	<10	<10	53	<10	80
ZZ05959		<20	0.04	<10	<10	38	<10	50
ZZ05960		<20	0.04	<10	<10	32	<10	32
ZZ05961		<20	0.03	<10	<10	47	<10	27
ZZ05962		<20	0.04	<10	<10	57	<10	57
ZZ05963		<20	0.04	<10	<10	53	<10	80
ZZ05964		<20	0.02	<10	<10	34	<10	53
ZZ05965		<20	0.04	<10	<10	43	<10	45
ZZ05966		<20	0.04	<10	<10	57	<10	71
ZZ05967		<20	0.02	<10	<10	49	<10	62
ZZ05968		<20	0.04	<10	<10	38	<10	45
ZZ05969		<20	0.04	<10	<10	35	<10	50
ZZ05970		<20	0.04	<10	<10	32	<10	37
ZZ05971		<20	0.04	<10	<10	36	<10	30
ZZ05972		<20	0.04	<10	<10	37	<10	45
ZZ05973		<20	0.04	<10	<10	34	<10	37
ZZ05974		<20	0.04	<10	<10	38	<10	52
ZZ05975		<20	0.05	<10	<10	45	<10	54
ZZ05976		<20	0.04	<10	<10	35	<10	35
ZZ05977		<20	0.03	<10	<10	45	<10	40
ZZ05978		<20	0.03	<10	<10	32	<10	32
ZZ05979		<20	0.04	<10	<10	46	<10	30
ZZ05980		<20	0.03	<10	<10	34	<10	29
ZZ05981		<20	0.04	<10	<10	42	<10	56
ZZ05982		<20	0.04	<10	<10	38	<10	51
ZZ05983		<20	0.04	<10	<10	38	<10	42
ZZ05984		<20	0.04	<10	<10	39	<10	32
ZZ05985		<20	0.04	<10	<10	41	<10	46
ZZ05986		<20	0.04	<10	<10	41	<10	56
ZZ05987		<20	0.04	<10	<10	43	<10	47
ZZ05988		<20	0.03	<10	<10	43	<10	38
ZZ05989		<20	0.04	<10	<10	46	<10	45
ZZ05990		<20	0.04	<10	<10	50	<10	53



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Page: 3 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ05991		0.24	0.005	<0.2	1.46	4	<10	70	<0.5	<2	0.10	<0.5	14	177	41	2.09
ZZ05992		0.24	0.003	0.2	2.10	6	<10	90	<0.5	<2	0.07	<0.5	10	176	46	1.85
ZZ05993		0.18	0.001	0.5	2.83	18	<10	110	<0.5	<2	0.05	<0.5	12	139	73	2.49
ZZ05994		0.32	0.002	<0.2	1.88	6	<10	80	<0.5	<2	0.09	<0.5	9	133	30	2.29
ZZ05995		0.28	0.005	<0.2	1.74	4	<10	80	<0.5	<2	0.06	<0.5	9	146	31	2.00
ZZ05996		0.18	<0.001	<0.2	2.29	8	<10	140	<0.5	<2	0.09	<0.5	12	211	47	2.30
ZZ05997		0.24	0.007	0.2	1.86	6	<10	80	<0.5	<2	0.07	<0.5	10	166	31	2.32
ZZ05998		0.42	0.014	<0.2	1.50	9	<10	50	<0.5	<2	0.07	<0.5	15	235	18	3.01
ZZ05999		0.28	0.003	<0.2	1.54	9	<10	70	<0.5	<2	0.10	<0.5	14	190	21	2.69
ZZ06000		0.34	0.005	<0.2	1.70	10	<10	60	<0.5	<2	0.08	<0.5	15	237	24	3.04
ZZ06201		0.20	0.013	0.8	3.47	141	<10	400	1.6	<2	0.41	<0.5	19	133	57	4.64
ZZ06202		0.20	0.001	0.3	2.23	38	<10	170	0.7	<2	0.17	<0.5	12	67	26	3.72
ZZ06203		0.16	0.004	0.4	1.46	25	<10	70	<0.5	<2	0.05	<0.5	5	29	16	2.08
ZZ06204		0.22	0.002	<0.2	2.03	25	<10	70	<0.5	<2	0.11	<0.5	16	204	29	3.52
ZZ06205		0.26	0.001	<0.2	1.03	10	<10	120	<0.5	<2	0.08	<0.5	4	76	18	1.85
ZZ06206		0.26	0.001	<0.2	1.04	7	<10	90	<0.5	<2	0.10	<0.5	8	133	18	2.03
ZZ06207		0.22	0.001	<0.2	1.95	11	<10	50	<0.5	<2	0.16	<0.5	18	245	32	4.32
ZZ06208		0.24	<0.001	0.2	1.19	4	<10	50	<0.5	<2	0.06	<0.5	4	57	11	1.72
ZZ06209		0.22	0.002	0.3	2.06	7	<10	100	0.5	<2	0.11	<0.5	16	203	24	3.17
ZZ06210		0.26	0.001	0.3	2.23	11	<10	80	0.5	<2	0.08	<0.5	15	173	48	3.19
ZZ06251		0.24	0.003	0.2	2.35	13	<10	130	0.9	<2	0.06	<0.5	8	90	21	3.15
ZZ06252		0.30	0.005	0.2	2.97	20	<10	120	1.3	<2	0.08	<0.5	9	88	25	3.59
ZZ06253		0.32	0.002	0.2	2.98	8	<10	130	1.1	<2	0.07	<0.5	10	86	22	3.33
ZZ06254		0.26	0.005	0.5	1.79	4	<10	60	<0.5	<2	0.08	<0.5	5	82	23	2.55
ZZ06255		0.34	0.004	0.7	2.77	8	<10	100	0.7	<2	0.11	<0.5	7	84	30	2.98
ZZ06256		0.38	0.003	0.4	2.40	7	<10	100	0.8	<2	0.08	<0.5	7	73	17	2.33
ZZ06257		0.38	0.001	0.3	1.46	6	<10	60	<0.5	<2	0.06	<0.5	6	90	10	1.97
ZZ06258		0.38	0.003	0.2	1.21	6	<10	70	<0.5	<2	0.06	<0.5	11	155	17	1.87
ZZ06259		0.32	0.006	<0.2	1.37	6	<10	80	<0.5	<2	0.06	<0.5	11	183	13	2.04
ZZ06260		0.28	0.001	0.3	1.87	4	<10	80	<0.5	<2	0.03	<0.5	5	119	16	1.51
ZZ06261		0.38	0.037	<0.2	1.37	7	<10	140	<0.5	<2	0.11	<0.5	15	174	27	2.07
ZZ06262		0.44	0.002	<0.2	1.51	7	<10	90	<0.5	<2	0.07	<0.5	10	173	25	1.87
ZZ06263		0.46	0.001	0.2	2.50	7	<10	60	<0.5	<2	0.06	<0.5	11	200	33	2.14
ZZ06264		0.36	0.003	<0.2	2.82	22	<10	70	<0.5	<2	0.08	<0.5	14	277	59	2.68
ZZ06265		0.34	0.005	0.6	2.98	13	<10	90	<0.5	<2	0.06	<0.5	11	197	49	2.05
ZZ06266		0.36	0.002	0.3	2.64	9	<10	70	<0.5	<2	0.06	<0.5	9	146	39	1.82
ZZ06267		0.44	0.001	0.2	2.85	5	<10	70	<0.5	<2	0.07	<0.5	13	219	50	2.06
ZZ06268		0.54	0.002	<0.2	2.52	6	<10	70	<0.5	<2	0.06	<0.5	11	168	37	2.18
ZZ06269		0.28	0.002	0.2	1.83	3	<10	50	<0.5	<2	0.05	<0.5	9	140	26	2.03
ZZ06270		0.36	0.002	<0.2	1.47	6	<10	80	<0.5	<2	0.04	<0.5	14	212	13	2.56



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Page: 3 - B
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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05991		<10	<1	0.02	10	0.91	224	<1	0.01	111	90	4	0.01	<2	3	9
ZZ05992		10	<1	0.02	10	0.75	140	<1	0.01	83	310	5	0.03	<2	2	8
ZZ05993		10	<1	0.04	10	0.59	382	<1	0.01	76	630	11	0.03	<2	2	7
ZZ05994		10	<1	0.03	10	0.64	158	<1	0.01	65	370	6	0.03	<2	2	8
ZZ05995		10	<1	0.03	10	0.71	149	<1	0.01	75	260	5	0.02	<2	2	6
ZZ05996		10	<1	0.04	10	0.82	315	<1	0.01	154	1070	6	0.05	<2	1	9
ZZ05997		10	1	0.02	10	0.70	156	<1	<0.01	116	330	7	0.02	<2	2	7
ZZ05998		<10	<1	0.03	10	0.79	242	<1	<0.01	152	370	8	0.02	<2	2	8
ZZ05999		<10	<1	0.03	10	0.82	224	<1	0.01	166	370	9	0.02	<2	3	10
ZZ06000		<10	<1	0.03	10	1.01	223	<1	0.01	201	420	8	0.02	<2	3	9
ZZ06201		10	1	0.30	40	0.82	920	<1	0.01	132	1500	18	0.08	<2	6	21
ZZ06202		10	<1	0.27	20	0.61	970	<1	0.01	29	820	14	0.09	<2	3	16
ZZ06203		10	<1	0.11	10	0.19	203	1	0.01	20	580	15	0.03	<2	1	10
ZZ06204		10	<1	0.16	10	0.77	273	<1	0.01	153	560	8	0.02	<2	5	8
ZZ06205		10	<1	0.29	10	0.44	144	<1	0.01	36	290	14	0.04	<2	2	10
ZZ06206		10	<1	0.12	10	0.51	210	<1	0.01	78	280	8	0.01	<2	3	7
ZZ06207		10	<1	0.11	10	1.26	382	<1	0.02	150	1360	10	0.02	2	7	4
ZZ06208		10	1	0.05	10	0.30	136	<1	0.01	23	300	9	0.01	<2	2	6
ZZ06209		10	<1	0.17	10	1.05	323	<1	0.01	168	530	8	0.01	<2	4	7
ZZ06210		10	1	0.20	10	0.87	255	1	0.01	102	480	4	0.04	<2	4	8
ZZ06251		10	<1	0.20	20	0.68	264	<1	0.01	47	450	10	0.09	<2	3	23
ZZ06252		10	<1	0.17	20	0.74	226	1	0.01	72	610	7	0.07	<2	3	25
ZZ06253		10	<1	0.15	20	0.80	247	1	0.01	65	590	8	0.03	<2	4	15
ZZ06254		10	<1	0.10	10	0.92	193	4	0.01	36	520	8	0.03	<2	3	10
ZZ06255		10	1	0.10	10	1.05	215	3	<0.01	61	760	7	0.02	<2	5	13
ZZ06256		10	<1	0.10	10	0.61	202	1	0.01	46	440	6	0.02	4	2	12
ZZ06257		10	1	0.04	10	0.40	142	1	<0.01	50	430	6	0.01	<2	2	9
ZZ06258		<10	<1	0.03	10	0.59	180	<1	<0.01	121	180	5	<0.01	<2	2	8
ZZ06259		<10	<1	0.03	10	0.66	167	<1	0.01	122	160	6	<0.01	<2	2	9
ZZ06260		10	<1	0.04	10	0.33	63	<1	0.01	69	640	6	0.02	<2	1	7
ZZ06261		<10	<1	0.03	20	0.81	258	<1	0.01	141	160	4	<0.01	3	3	12
ZZ06262		<10	<1	0.02	10	0.81	168	<1	0.01	113	140	4	<0.01	<2	3	8
ZZ06263		<10	<1	0.03	10	0.80	139	<1	<0.01	101	430	3	0.03	3	3	6
ZZ06264		<10	<1	0.04	10	1.09	196	<1	0.01	122	490	6	0.04	<2	3	8
ZZ06265		<10	1	0.03	10	0.77	147	<1	0.01	84	370	4	0.02	<2	3	7
ZZ06266		10	1	0.03	10	0.66	119	<1	0.01	68	280	6	0.01	2	3	6
ZZ06267		<10	<1	0.02	10	0.94	140	<1	0.01	90	280	2	0.01	<2	3	6
ZZ06268		<10	1	0.03	10	0.78	149	<1	0.01	64	240	3	0.01	<2	3	6
ZZ06269		10	<1	0.02	10	0.76	118	<1	<0.01	53	260	2	<0.01	<2	2	6
ZZ06270		10	<1	0.03	10	0.81	197	<1	0.01	158	220	5	<0.01	2	2	7



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Page: 3 - C
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05991		<20	0.04	<10	<10	40	<10	33
ZZ05992		<20	0.04	<10	<10	39	<10	32
ZZ05993		<20	0.04	<10	<10	60	<10	59
ZZ05994		<20	0.04	<10	<10	42	<10	45
ZZ05995		<20	0.04	<10	<10	42	<10	44
ZZ05996		<20	0.02	<10	<10	43	<10	47
ZZ05997		<20	0.04	<10	<10	43	<10	43
ZZ05998		<20	0.04	<10	<10	44	<10	49
ZZ05999		<20	0.04	<10	<10	42	<10	49
ZZ06000		<20	0.04	<10	<10	46	<10	51
ZZ06201		<20	0.09	<10	<10	79	<10	107
ZZ06202		<20	0.14	<10	<10	73	<10	116
ZZ06203		<20	0.06	<10	<10	42	<10	33
ZZ06204		<20	0.13	<10	<10	67	<10	52
ZZ06205		<20	0.10	<10	<10	48	<10	45
ZZ06206		<20	0.14	<10	<10	57	<10	45
ZZ06207		<20	0.15	<10	<10	121	<10	82
ZZ06208		<20	0.07	<10	<10	51	<10	29
ZZ06209		<20	0.13	<10	<10	69	<10	69
ZZ06210		<20	0.10	<10	<10	68	<10	62
ZZ06251		<20	0.10	<10	<10	51	<10	55
ZZ06252		<20	0.09	<10	<10	53	<10	74
ZZ06253		<20	0.10	<10	<10	61	<10	88
ZZ06254		<20	0.11	<10	<10	132	<10	97
ZZ06255		<20	0.10	<10	<10	114	<10	121
ZZ06256		<20	0.08	<10	<10	60	<10	61
ZZ06257		<20	0.04	<10	<10	40	<10	41
ZZ06258		<20	0.04	<10	<10	32	<10	46
ZZ06259		<20	0.04	<10	<10	39	<10	41
ZZ06260		<20	0.02	<10	<10	34	<10	30
ZZ06261		<20	0.05	<10	<10	39	<10	43
ZZ06262		<20	0.04	<10	<10	39	<10	41
ZZ06263		<20	0.03	<10	<10	42	<10	42
ZZ06264		<20	0.04	<10	<10	55	<10	47
ZZ06265		<20	0.04	<10	<10	45	<10	36
ZZ06266		<20	0.04	<10	<10	42	<10	32
ZZ06267		<20	0.04	<10	<10	42	<10	32
ZZ06268		<20	0.05	<10	<10	43	<10	39
ZZ06269		<20	0.05	<10	<10	54	<10	29
ZZ06270		<20	0.04	<10	<10	42	<10	34



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Page: 4 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ06271		0.28	0.001	<0.2	2.05	6	<10	70	<0.5	<2	0.08	<0.5	15	151	102	2.81
ZZ06272		0.46	0.001	<0.2	2.47	2	<10	110	<0.5	<2	0.25	<0.5	21	228	75	3.70
ZZ06273		0.34	0.002	<0.2	2.73	3	<10	90	<0.5	<2	0.25	<0.5	27	264	155	4.11
ZZ06274		0.24	0.001	<0.2	1.96	7	<10	100	<0.5	<2	0.26	<0.5	19	195	121	3.19
ZZ06275		0.44	0.002	<0.2	1.25	5	<10	60	<0.5	<2	0.08	<0.5	13	281	24	2.39
ZZ06276		0.20	<0.001	0.2	1.36	3	<10	170	<0.5	<2	0.11	<0.5	9	144	20	1.42
ZZ06277		0.38	0.001	0.2	0.54	11	<10	50	<0.5	<2	0.03	<0.5	44	1005	9	5.01
ZZ06278		0.26	0.001	<0.2	0.95	6	<10	80	<0.5	<2	0.07	<0.5	9	192	7	1.74
ZZ06279		0.28	0.002	0.2	1.41	10	<10	110	<0.5	<2	0.07	<0.5	18	264	11	2.89
ZZ06280		0.34	0.001	<0.2	1.14	6	<10	90	<0.5	<2	0.05	<0.5	11	210	7	1.87
ZZ06350		Not Recvd														
ZZ06351		0.18	0.001	<0.2	1.49	25	<10	110	0.8	<2	0.14	<0.5	7	64	20	3.70
ZZ06352		0.26	<0.001	<0.2	1.50	18	<10	100	1.1	<2	0.07	<0.5	7	47	20	3.51
ZZ06353		0.18	<0.001	<0.2	0.66	16	<10	70	<0.5	<2	0.02	<0.5	3	31	22	1.91
ZZ06354		0.22	0.001	0.2	2.27	42	<10	180	2.2	<2	0.39	<0.5	16	112	51	4.14
ZZ06355		0.20	0.002	0.2	2.37	11	<10	230	0.9	<2	0.49	<0.5	15	118	35	3.18
ZZ06356		0.24	0.001	<0.2	2.29	11	<10	120	0.7	<2	0.11	<0.5	10	103	28	3.09
ZZ06357		0.18	0.001	<0.2	1.32	19	<10	60	0.7	<2	0.09	<0.5	9	83	31	3.30
ZZ06358		0.16	0.001	<0.2	1.98	14	<10	90	0.8	<2	0.12	<0.5	10	110	29	3.75
ZZ06359		0.22	0.002	<0.2	1.99	10	<10	190	0.9	<2	0.32	<0.5	13	97	39	2.56
ZZ06360		0.20	0.001	0.2	2.57	17	<10	120	1.0	<2	0.19	<0.5	13	108	39	3.81
ZZ06361		0.24	0.004	0.2	2.02	17	<10	260	0.8	<2	0.46	<0.5	12	86	42	2.83
ZZ06362		0.22	0.002	<0.2	1.86	5	<10	130	0.7	<2	0.53	<0.5	15	169	41	2.19
ZZ06363		0.20	0.027	0.8	2.49	75	<10	290	1.1	<2	0.40	<0.5	14	101	43	3.63
ZZ06364		0.22	0.021	0.7	2.64	49	<10	240	1.2	<2	0.32	<0.5	15	115	47	3.85
ZZ06365		0.22	0.002	<0.2	3.05	10	<10	160	0.8	<2	0.28	<0.5	17	121	49	2.56
ZZ06366		0.20	0.002	<0.2	2.48	14	<10	140	1.1	<2	0.15	<0.5	14	100	40	3.57
ZZ06367		0.26	0.003	<0.2	2.05	10	<10	80	0.5	<2	0.07	<0.5	9	84	24	3.36
ZZ06368		0.22	0.022	0.2	3.30	17	<10	130	1.2	<2	0.10	<0.5	18	157	38	4.45
ZZ06369		0.20	0.001	<0.2	1.56	6	<10	60	<0.5	<2	0.07	<0.5	5	55	13	2.29
ZZ06370		0.20	0.002	0.2	2.76	12	<10	140	0.9	<2	0.07	<0.5	12	93	32	3.74
ZZ06371		0.20	<0.001	0.2	1.19	39	<10	60	0.5	<2	0.05	<0.5	8	53	25	4.23
ZZ06372		0.22	<0.001	0.2	1.33	29	<10	90	<0.5	<2	0.07	<0.5	10	63	30	3.57
ZZ06373		0.20	<0.001	0.3	1.60	18	<10	80	<0.5	<2	0.07	<0.5	7	94	18	3.23
ZZ06374		0.24	0.006	0.4	2.25	24	<10	180	1.0	<2	0.26	<0.5	14	91	44	3.35
ZZ06375		0.22	0.002	0.3	2.01	18	<10	90	0.6	<2	0.09	<0.5	11	102	32	4.02
ZZ06376		0.28	0.005	0.2	2.19	5	<10	150	0.7	<2	0.59	<0.5	15	175	40	2.19
ZZ06377		0.24	0.003	<0.2	1.98	11	<10	90	0.6	<2	0.13	<0.5	10	100	33	2.89
ZZ06378		0.24	0.001	0.2	3.08	9	<10	140	0.7	<2	0.20	<0.5	12	121	43	2.86
ZZ06379		0.20	<0.001	0.3	2.53	12	<10	230	0.8	<2	0.41	<0.5	14	127	36	3.24



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Page: 4 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ06271		10	1	0.04	10	1.23	196	<1	<0.01	90	240	2	0.01	3	4	7
ZZ06272		10	1	0.09	<10	2.15	199	<1	0.01	95	160	<2	0.01	<2	4	9
ZZ06273		10	<1	0.09	<10	2.54	331	<1	0.01	136	190	<2	0.01	<2	7	9
ZZ06274		10	1	0.07	10	1.73	319	<1	0.01	122	310	3	<0.01	<2	6	10
ZZ06275		<10	<1	0.03	10	1.07	219	<1	<0.01	148	240	<2	<0.01	2	3	7
ZZ06276		<10	<1	0.03	10	0.73	220	<1	0.01	103	290	6	0.01	2	3	13
ZZ06277		<10	<1	0.03	<10	2.35	770	<1	<0.01	627	440	2	<0.01	3	2	4
ZZ06278		<10	1	0.02	10	0.74	179	<1	0.01	110	150	6	<0.01	<2	2	7
ZZ06279		<10	<1	0.02	10	0.97	227	<1	0.01	221	220	5	<0.01	<2	2	9
ZZ06280		<10	<1	0.02	10	0.65	121	<1	0.01	150	140	5	<0.01	<2	2	7
ZZ06350																
ZZ06351		10	<1	0.17	10	0.48	282	1	0.01	31	420	20	0.03	<2	3	15
ZZ06352		10	<1	0.21	20	0.40	332	1	<0.01	21	400	22	0.04	<2	2	10
ZZ06353		10	<1	0.06	10	0.08	74	1	<0.01	15	220	18	0.01	<2	1	6
ZZ06354		10	<1	0.45	10	1.10	417	1	0.01	50	640	33	0.08	<2	5	19
ZZ06355		10	<1	0.30	10	0.94	512	<1	0.02	65	580	16	0.03	<2	5	20
ZZ06356		10	<1	0.17	10	0.79	266	1	<0.01	47	330	16	0.01	<2	4	9
ZZ06357		<10	<1	0.19	10	0.62	231	<1	<0.01	44	540	28	0.03	<2	4	8
ZZ06358		10	<1	0.16	10	0.78	225	<1	<0.01	49	480	20	0.02	<2	5	8
ZZ06359		<10	<1	0.25	10	0.84	359	<1	0.01	47	680	10	0.01	<2	6	18
ZZ06360		10	<1	0.27	10	0.94	392	1	<0.01	52	660	23	0.02	<2	7	9
ZZ06361		10	<1	0.30	10	0.83	459	1	0.02	39	910	11	0.01	<2	6	21
ZZ06362		<10	<1	0.23	10	1.16	400	<1	0.03	61	830	21	<0.01	<2	6	23
ZZ06363		10	2	0.23	10	0.96	594	<1	0.01	56	890	12	0.03	<2	6	24
ZZ06364		10	1	0.28	10	1.11	499	1	0.01	66	830	13	0.02	<2	6	19
ZZ06365		10	<1	0.27	10	0.89	357	<1	0.01	66	1010	12	0.01	<2	6	13
ZZ06366		10	<1	0.26	10	1.03	331	1	<0.01	71	700	16	0.03	<2	6	14
ZZ06367		10	<1	0.14	10	0.73	249	1	<0.01	42	460	11	0.01	<2	5	11
ZZ06368		10	<1	0.28	10	1.50	299	1	<0.01	80	580	11	0.02	<2	7	11
ZZ06369		10	<1	0.10	10	0.40	134	1	<0.01	23	560	12	0.01	<2	3	10
ZZ06370		10	<1	0.22	10	0.85	251	1	<0.01	52	470	12	0.02	<2	6	13
ZZ06371		10	<1	0.09	10	0.31	233	1	<0.01	28	550	10	0.02	<2	4	9
ZZ06372		10	<1	0.14	10	0.51	268	1	<0.01	34	480	12	0.04	<2	4	9
ZZ06373		10	<1	0.15	10	0.60	206	1	<0.01	35	480	13	0.02	<2	4	9
ZZ06374		10	1	0.27	10	0.94	505	1	<0.01	61	760	11	0.02	<2	6	17
ZZ06375		10	<1	0.18	10	0.74	302	1	<0.01	54	430	15	0.04	<2	4	10
ZZ06376		10	<1	0.24	10	1.16	437	<1	0.05	63	940	16	0.01	<2	6	28
ZZ06377		10	<1	0.17	10	0.75	226	<1	<0.01	45	480	13	0.02	<2	4	8
ZZ06378		10	<1	0.21	10	0.81	330	<1	0.01	52	850	13	0.02	<2	6	10
ZZ06379		10	<1	0.26	10	1.17	346	<1	0.01	54	580	13	0.02	<2	6	23



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Page: 4 - C
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ06271		<20	0.06	<10	<10	72	<10	47
ZZ06272		<20	0.15	<10	<10	117	<10	54
ZZ06273		<20	0.10	<10	<10	123	<10	62
ZZ06274		<20	0.06	<10	<10	93	<10	50
ZZ06275		<20	0.04	<10	<10	55	<10	45
ZZ06276		<20	0.03	<10	<10	40	<10	37
ZZ06277		<20	0.04	<10	<10	58	<10	39
ZZ06278		<20	0.04	<10	<10	38	<10	35
ZZ06279		<20	0.04	<10	<10	44	<10	57
ZZ06280		<20	0.04	<10	<10	36	<10	32
ZZ06350								
ZZ06351		<20	0.14	<10	<10	68	10	73
ZZ06352		<20	0.09	<10	<10	54	10	62
ZZ06353		<20	0.08	<10	<10	58	10	34
ZZ06354		<20	0.15	<10	<10	72	10	114
ZZ06355		<20	0.13	<10	<10	72	10	75
ZZ06356		<20	0.14	<10	<10	70	10	58
ZZ06357		<20	0.11	<10	<10	56	20	58
ZZ06358		<20	0.13	<10	<10	62	20	60
ZZ06359		<20	0.14	<10	<10	60	10	50
ZZ06360		<20	0.17	<10	<10	79	10	84
ZZ06361		<20	0.14	<10	<10	71	10	60
ZZ06362		<20	0.14	<10	<10	63	10	41
ZZ06363		<20	0.14	<10	<10	78	<10	82
ZZ06364		<20	0.14	<10	<10	79	<10	85
ZZ06365		<20	0.13	<10	<10	64	10	55
ZZ06366		<20	0.13	<10	<10	69	10	76
ZZ06367		<20	0.13	<10	<10	76	<10	52
ZZ06368		<20	0.18	<10	<10	103	<10	96
ZZ06369		<20	0.10	<10	<10	59	<10	36
ZZ06370		<20	0.12	<10	<10	74	<10	70
ZZ06371		<20	0.09	<10	<10	61	<10	69
ZZ06372		<20	0.12	<10	<10	68	10	62
ZZ06373		<20	0.15	<10	<10	86	20	46
ZZ06374		<20	0.15	<10	<10	69	<10	67
ZZ06375		<20	0.12	<10	<10	70	<10	59
ZZ06376		<20	0.13	<10	<10	66	10	42
ZZ06377		<20	0.13	<10	<10	71	10	49
ZZ06378		<20	0.14	<10	<10	73	10	56
ZZ06379		<20	0.17	<10	<10	84	10	60



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Page: 5 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ06380		0.22	<0.001	<0.2	2.60	10	<10	160	1.3	<2	0.16	<0.5	11	92	29	3.60
ZZ06381		0.22	<0.001	0.2	2.34	9	<10	110	0.7	<2	0.19	<0.5	11	100	28	3.26
ZZ06382		0.36	0.002	0.3	2.26	10	<10	200	1.1	<2	0.51	<0.5	14	118	66	2.63
ZZ06383		0.20	<0.001	0.2	2.38	16	<10	130	1.2	<2	0.27	<0.5	12	91	33	4.11
ZZ06384		0.24	0.001	<0.2	2.64	10	<10	130	1.8	<2	0.35	<0.5	17	194	107	3.37
ZZ06385		0.24	0.001	0.2	1.79	9	<10	140	0.8	<2	0.37	<0.5	12	117	44	2.63
ZZ06386		0.28	<0.001	<0.2	1.80	16	<10	150	1.0	<2	0.27	<0.5	12	80	36	2.93
ZZ06387		0.26	0.002	0.3	3.28	30	<10	360	1.5	<2	0.62	<0.5	15	127	119	3.74
ZZ06388		0.24	<0.001	<0.2	1.19	14	<10	130	0.5	<2	0.40	<0.5	4	43	19	2.04
ZZ06389		0.22	0.002	<0.2	1.88	15	<10	90	0.7	<2	0.06	<0.5	6	56	21	3.93
ZZ06390		0.24	0.002	<0.2	2.12	28	<10	180	1.2	<2	0.39	<0.5	8	49	16	3.49
ZZ06391		0.22	<0.001	<0.2	1.91	12	<10	120	0.7	<2	0.08	<0.5	9	65	26	4.01
ZZ06392		0.18	0.001	<0.2	2.13	35	<10	100	0.7	2	0.05	<0.5	7	64	28	4.37
ZZ06393		0.22	<0.001	<0.2	1.21	12	<10	120	<0.5	<2	0.13	<0.5	5	47	16	2.80
ZZ06394		0.18	<0.001	<0.2	0.46	4	<10	60	<0.5	<2	0.09	<0.5	1	10	6	0.57
ZZ06395		0.24	<0.001	0.4	0.79	7	<10	70	<0.5	2	0.03	<0.5	2	16	8	0.91
ZZ06396		0.24	<0.001	<0.2	1.56	10	<10	120	0.6	<2	0.17	<0.5	8	79	21	2.92
ZZ06397		0.24	0.001	<0.2	1.76	23	<10	210	<0.5	<2	0.53	<0.5	9	119	30	2.88
ZZ06398		0.26	0.002	<0.2	2.89	85	<10	260	1.5	2	0.34	<0.5	14	122	48	4.05
ZZ06399		0.22	0.008	<0.2	2.07	49	<10	180	0.8	<2	0.37	<0.5	11	80	24	2.97
ZZ06400		0.24	<0.001	0.2	2.31	81	<10	220	1.1	<2	0.21	<0.5	6	62	36	3.84
ZZ06401		0.26	0.004	<0.2	0.82	7	<10	70	<0.5	<2	0.16	<0.5	14	316	7	2.10
ZZ06402		0.20	0.011	<0.2	0.63	16	<10	60	<0.5	<2	0.08	<0.5	46	616	8	3.34
ZZ06403		0.28	0.002	<0.2	0.83	7	<10	80	<0.5	<2	0.15	<0.5	12	262	8	1.99
ZZ06404		0.26	0.195	<0.2	0.75	5	<10	70	<0.5	<2	0.09	<0.5	15	336	8	2.05
ZZ06405		0.38	0.024	<0.2	0.70	9	<10	70	<0.5	<2	0.06	<0.5	45	643	10	3.66
ZZ06406		0.28	0.006	<0.2	0.87	5	<10	70	<0.5	<2	0.08	<0.5	18	367	9	2.44
ZZ06407		0.28	0.173	<0.2	0.85	4	<10	50	<0.5	<2	0.07	<0.5	16	313	8	2.20
ZZ06408		0.16	0.001	<0.2	0.54	16	<10	50	<0.5	3	0.04	<0.5	58	741	7	4.08
ZZ06409		0.20	<0.001	<0.2	0.92	10	<10	170	<0.5	2	0.10	0.5	26	375	17	2.92
ZZ06410		0.16	<0.001	<0.2	1.99	19	<10	210	0.5	<2	0.04	<0.5	40	305	26	5.19
ZZ06411		0.16	NSS	<0.2	1.40	14	<10	180	0.5	<2	0.14	<0.5	56	518	29	4.32
ZZ06412		0.20	0.023	<0.2	0.96	21	<10	100	<0.5	2	0.09	<0.5	42	556	12	3.61
ZZ06413		0.26	0.007	<0.2	1.17	7	<10	80	<0.5	<2	0.06	<0.5	18	349	8	2.66
ZZ06414		0.24	0.010	<0.2	0.62	8	<10	70	<0.5	2	0.04	<0.5	47	701	6	4.18
ZZ06415		0.24	0.001	<0.2	1.52	9	<10	170	<0.5	2	0.07	<0.5	28	459	16	3.76
ZZ06416		0.30	0.029	<0.2	0.99	6	<10	60	<0.5	<2	0.08	<0.5	16	331	12	2.41
ZZ06417		0.28	0.203	<0.2	1.51	14	<10	90	<0.5	<2	0.07	<0.5	19	388	15	3.64
ZZ06418		0.28	0.010	<0.2	1.18	7	<10	70	<0.5	<2	0.09	<0.5	15	360	12	2.64
ZZ06419		0.34	0.007	<0.2	1.15	5	<10	70	<0.5	<2	0.14	<0.5	18	322	15	2.67



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Page: 5 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ06380		10	<1	0.31	10	0.94	278	1	<0.01	44	320	17	0.03	<2	5	13
ZZ06381		10	<1	0.15	10	0.86	271	<1	0.01	42	460	19	0.02	<2	5	11
ZZ06382		10	<1	0.27	10	1.01	638	1	0.02	57	470	18	0.03	<2	4	21
ZZ06383		10	<1	0.23	10	0.94	287	1	<0.01	48	400	23	0.04	<2	5	15
ZZ06384		10	<1	0.18	10	1.44	346	<1	0.01	82	250	26	0.02	<2	6	14
ZZ06385		<10	<1	0.29	10	0.90	247	<1	0.01	53	210	15	0.02	<2	4	17
ZZ06386		10	<1	0.35	10	0.73	321	<1	<0.01	44	370	14	0.03	<2	4	14
ZZ06387		10	<1	0.36	20	0.87	540	<1	0.02	78	880	67	0.08	<2	6	40
ZZ06388		10	<1	0.26	10	0.31	196	<1	0.01	15	620	9	0.07	<2	1	19
ZZ06389		10	<1	0.18	10	0.54	248	<1	0.01	23	440	21	0.04	<2	3	7
ZZ06390		10	<1	0.40	10	0.76	322	<1	0.01	19	760	30	0.07	<2	4	20
ZZ06391		10	<1	0.33	10	0.65	473	<1	0.01	27	550	19	0.05	<2	4	8
ZZ06392		10	1	0.44	10	0.72	255	<1	0.01	29	880	25	0.03	<2	5	5
ZZ06393		10	<1	0.41	10	0.54	157	<1	0.01	20	360	15	0.02	<2	3	8
ZZ06394		<10	<1	0.07	10	0.07	55	<1	0.01	3	470	7	0.04	<2	<1	7
ZZ06395		10	<1	0.08	10	0.12	86	<1	0.01	6	320	124	0.03	<2	1	7
ZZ06396		10	<1	0.25	10	0.66	208	<1	0.01	37	390	12	0.03	<2	3	11
ZZ06397		10	<1	0.36	10	0.90	304	<1	0.02	55	710	6	0.04	<2	5	21
ZZ06398		10	<1	0.56	10	1.18	466	<1	0.02	83	1000	21	0.07	2	5	17
ZZ06399		10	<1	0.24	10	0.71	853	<1	0.02	41	1640	10	0.10	<2	2	19
ZZ06400		10	<1	0.61	20	0.94	283	<1	0.02	22	530	16	0.11	<2	5	17
ZZ06401		<10	<1	0.03	10	1.19	203	<1	0.01	229	530	6	0.01	<2	2	10
ZZ06402		<10	<1	0.02	10	3.09	612	<1	0.01	509	280	4	0.01	<2	2	7
ZZ06403		<10	<1	0.02	10	0.82	173	<1	0.01	196	410	6	0.01	<2	2	12
ZZ06404		<10	<1	0.02	10	0.87	215	<1	0.01	227	240	5	0.01	<2	2	8
ZZ06405		<10	<1	0.03	10	3.13	584	<1	0.01	527	260	5	0.01	<2	2	7
ZZ06406		<10	<1	0.02	10	1.24	244	<1	0.01	279	190	5	0.01	<2	2	8
ZZ06407		<10	<1	0.02	10	1.21	242	<1	0.01	266	170	5	0.01	<2	2	6
ZZ06408		<10	<1	0.02	10	3.42	849	<1	0.01	593	230	6	0.01	<2	2	5
ZZ06409		<10	<1	0.04	10	1.55	414	<1	0.01	364	460	7	0.02	<2	2	13
ZZ06410		10	<1	0.07	10	0.92	901	<1	0.01	270	450	17	0.02	<2	5	8
ZZ06411		<10	1	0.05	10	3.20	978	<1	0.02	742	990	5	0.06	<2	3	14
ZZ06412		<10	<1	0.04	10	2.96	678	<1	0.01	483	640	4	0.04	<2	2	9
ZZ06413		<10	1	0.02	10	0.95	158	<1	0.01	227	170	6	0.01	<2	2	8
ZZ06414		<10	<1	0.02	<10	2.67	559	<1	<0.01	519	250	4	0.01	<2	2	5
ZZ06415		10	<1	0.05	10	1.06	786	<1	0.01	270	480	7	0.02	<2	2	10
ZZ06416		<10	<1	0.03	10	1.07	274	<1	0.01	249	260	4	0.01	<2	2	8
ZZ06417		<10	<1	0.03	10	1.17	298	<1	0.01	274	210	6	0.01	<2	3	8
ZZ06418		<10	<1	0.02	10	0.98	220	<1	0.01	226	290	5	0.01	<2	2	8
ZZ06419		<10	<1	0.03	10	1.15	257	<1	0.01	272	420	6	0.01	<2	2	10



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Page: 5 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 14- OCT- 2011
 Account: F

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ06380		<20	0.18	<10	<10	73	<10	71
ZZ06381		<20	0.15	<10	<10	78	20	57
ZZ06382		<20	0.12	<10	<10	70	10	58
ZZ06383		<20	0.16	<10	<10	71	10	80
ZZ06384		<20	0.16	<10	<10	82	10	69
ZZ06385		<20	0.14	<10	<10	57	10	52
ZZ06386		<20	0.14	<10	<10	52	10	65
ZZ06387		<20	0.10	<10	<10	85	20	94
ZZ06388		<20	0.07	<10	<10	47	<10	60
ZZ06389		<20	0.13	<10	<10	75	<10	69
ZZ06390		<20	0.14	<10	<10	61	<10	108
ZZ06391		<20	0.16	<10	<10	84	<10	73
ZZ06392		<20	0.26	<10	<10	97	10	82
ZZ06393		<20	0.22	<10	<10	67	10	64
ZZ06394		<20	0.02	<10	<10	17	<10	16
ZZ06395		<20	0.06	<10	<10	35	100	24
ZZ06396		<20	0.15	<10	<10	69	<10	72
ZZ06397		<20	0.16	<10	<10	82	<10	76
ZZ06398		<20	0.12	<10	<10	98	<10	130
ZZ06399		<20	0.06	<10	<10	81	<10	95
ZZ06400		<20	0.20	<10	<10	81	<10	103
ZZ06401		<20	0.04	<10	<10	28	<10	43
ZZ06402		<20	0.03	<10	<10	30	<10	50
ZZ06403		<20	0.04	<10	<10	27	<10	42
ZZ06404		<20	0.03	<10	<10	26	<10	44
ZZ06405		<20	0.03	<10	<10	35	<10	53
ZZ06406		<20	0.04	<10	<10	31	<10	44
ZZ06407		<20	0.03	<10	<10	30	<10	36
ZZ06408		<20	0.03	<10	<10	36	<10	63
ZZ06409		<20	0.04	<10	<10	38	<10	42
ZZ06410		<20	0.05	<10	<10	77	<10	75
ZZ06411		<20	0.03	<10	<10	37	<10	77
ZZ06412		<20	0.02	<10	<10	36	<10	49
ZZ06413		<20	0.04	<10	<10	39	<10	41
ZZ06414		<20	0.02	<10	<10	35	<10	47
ZZ06415		<20	0.03	<10	<10	55	<10	63
ZZ06416		<20	0.04	<10	<10	35	<10	41
ZZ06417		<20	0.06	<10	<10	54	<10	59
ZZ06418		<20	0.04	<10	<10	35	<10	43
ZZ06419		<20	0.04	<10	<10	35	<10	47



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Page: 6 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ06420		0.24	0.010	<0.2	0.89	5	<10	80	<0.5	<2	0.15	<0.5	16	264	14	2.25
ZZ06421		0.22	0.002	<0.2	1.54	6	<10	80	<0.5	2	0.07	<0.5	19	293	13	2.78
ZZ06422		0.20	0.001	<0.2	1.05	5	<10	120	<0.5	<2	0.04	<0.5	30	194	9	2.35
ZZ06423		0.22	0.002	<0.2	1.26	3	<10	190	<0.5	<2	0.09	<0.5	16	352	10	1.47
ZZ06424		0.26	0.002	<0.2	1.74	13	<10	230	0.5	<2	0.13	<0.5	53	384	22	3.19
ZZ06425		0.20	0.002	<0.2	1.09	7	<10	160	<0.5	<2	0.07	<0.5	12	255	6	1.66
ZZ06426		0.18	0.003	<0.2	0.86	4	<10	100	<0.5	<2	0.12	<0.5	11	251	14	1.83
ZZ06427		0.26	0.006	<0.2	1.66	8	<10	110	<0.5	<2	0.12	<0.5	15	226	34	2.51
ZZ06428		0.24	0.005	<0.2	1.13	6	<10	90	<0.5	<2	0.13	<0.5	13	215	22	1.86
ZZ06429		0.26	0.003	<0.2	1.22	4	<10	90	<0.5	<2	0.11	<0.5	10	200	16	1.77
ZZ06430		0.16	0.001	0.2	0.85	5	<10	140	<0.5	<2	0.11	<0.5	12	226	9	1.54
ZZ06431		0.26	0.002	<0.2	1.30	5	<10	130	<0.5	<2	0.10	<0.5	10	166	15	1.77
ZZ06432		0.24	0.006	<0.2	1.27	4	<10	90	<0.5	<2	0.13	<0.5	11	164	17	1.75
ZZ06433		0.18	0.004	0.2	1.05	<2	<10	70	<0.5	<2	0.04	<0.5	5	95	9	1.02
ZZ06434		0.28	0.004	<0.2	1.56	7	<10	180	<0.5	<2	0.14	<0.5	15	211	29	2.46
ZZ06435		0.12	0.001	0.3	1.10	2	<10	170	<0.5	<2	0.09	<0.5	3	40	8	0.63
ZZ06436		0.20	0.002	0.4	2.86	8	<10	460	0.5	<2	0.25	<0.5	24	183	26	3.04
ZZ06437		0.26	0.014	<0.2	1.08	<2	<10	180	<0.5	<2	0.15	<0.5	12	137	23	1.70
ZZ06438		0.28	0.003	<0.2	1.33	3	<10	190	<0.5	<2	0.15	<0.5	12	115	23	1.84
ZZ06439		0.20	0.002	<0.2	1.56	9	<10	150	<0.5	<2	0.11	<0.5	11	103	16	2.63
ZZ06440		0.22	0.010	0.2	1.62	14	<10	230	0.5	<2	0.18	<0.5	12	199	24	1.80
ZZ06441		0.24	0.003	0.2	1.72	10	<10	250	<0.5	<2	0.17	<0.5	15	239	15	2.61
ZZ06442		0.20	0.002	<0.2	1.28	2	<10	230	<0.5	<2	0.23	<0.5	10	203	18	1.71
ZZ06443		0.24	0.005	0.3	2.25	4	<10	450	0.6	<2	0.24	0.6	16	535	31	2.05
ZZ06444		0.20	0.012	<0.2	1.80	9	<10	260	<0.5	<2	0.16	<0.5	19	363	23	2.25
ZZ06445		0.20	0.003	<0.2	1.33	2	<10	120	<0.5	<2	0.10	<0.5	13	92	10	1.03
ZZ06446		0.20	<0.001	<0.2	1.95	2	<10	230	<0.5	<2	0.11	<0.5	11	194	16	2.24
ZZ06447		0.16	0.006	0.4	1.67	2	<10	200	<0.5	<2	0.13	<0.5	8	165	16	1.79
ZZ06448		0.28	0.003	<0.2	1.38	7	<10	180	<0.5	<2	0.16	<0.5	18	261	23	2.28
ZZ06449		0.22	0.002	0.2	1.84	6	<10	180	<0.5	2	0.08	<0.5	12	202	21	2.30
ZZ06450		0.18	0.002	<0.2	1.61	3	<10	120	<0.5	<2	0.06	<0.5	8	135	12	1.81
ZZ06451		0.12	<0.001	<0.2	1.48	13	<10	150	<0.5	<2	0.07	<0.5	6	109	10	1.73
ZZ06452		0.20	0.003	<0.2	1.43	<2	<10	210	<0.5	<2	0.16	<0.5	9	444	11	1.41
ZZ06453		0.24	0.005	0.2	1.25	9	<10	200	<0.5	<2	0.16	<0.5	24	503	29	2.29
ZZ06454		0.18	0.005	0.2	1.41	4	<10	240	0.5	<2	0.17	<0.5	26	430	22	2.19
ZZ06455		0.22	0.004	<0.2	1.26	3	<10	220	<0.5	<2	0.20	<0.5	17	431	19	1.90
ZZ06456		0.26	0.031	<0.2	1.12	3	<10	190	<0.5	<2	0.18	<0.5	15	607	15	1.55
ZZ06457		0.16	0.012	0.2	1.95	27	<10	290	<0.5	<2	0.12	<0.5	18	272	17	1.96
ZZ06458		0.26	0.007	0.2	1.08	9	<10	190	<0.5	<2	0.21	<0.5	23	352	15	2.37
ZZ06459		0.14	0.010	0.2	2.47	212	<10	510	0.6	<2	0.42	<0.5	29	456	32	5.00



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Page: 6 - B
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ06420		<10	<1	0.03	10	0.94	253	<1	0.01	243	400	6	0.01	<2	2	10
ZZ06421		<10	<1	0.03	10	1.08	349	<1	0.01	223	320	8	0.01	<2	2	9
ZZ06422		<10	<1	0.04	10	1.53	888	<1	0.01	232	510	4	0.02	<2	1	8
ZZ06423		<10	<1	0.02	10	0.72	112	<1	0.01	223	90	10	<0.01	<2	3	9
ZZ06424		<10	1	0.05	10	1.27	1305	<1	0.01	375	680	7	0.02	2	3	13
ZZ06425		<10	<1	0.03	10	0.99	196	<1	0.01	175	270	8	0.01	<2	2	9
ZZ06426		<10	<1	0.02	10	0.86	171	<1	0.01	201	240	4	<0.01	2	2	10
ZZ06427		<10	<1	0.03	10	0.98	217	<1	0.01	233	350	3	0.01	3	3	11
ZZ06428		<10	<1	0.02	10	0.87	190	<1	0.01	188	300	3	<0.01	<2	2	10
ZZ06429		<10	<1	0.02	10	0.75	155	<1	0.01	158	320	3	0.01	2	2	10
ZZ06430		<10	<1	0.03	<10	0.66	273	<1	0.01	124	590	2	0.03	<2	1	11
ZZ06431		<10	<1	0.04	10	0.66	218	<1	0.01	127	540	4	0.02	<2	1	9
ZZ06432		<10	<1	0.02	10	0.70	180	<1	0.01	128	360	3	<0.01	<2	2	10
ZZ06433		<10	<1	0.03	10	0.40	69	<1	0.01	82	240	2	0.01	<2	1	7
ZZ06434		<10	<1	0.03	10	0.81	290	<1	0.01	187	290	5	<0.01	3	4	12
ZZ06435		<10	<1	0.03	<10	0.11	26	<1	0.02	59	650	<2	0.05	<2	<1	13
ZZ06436		10	<1	0.06	10	0.73	715	<1	0.02	158	980	8	0.04	<2	3	20
ZZ06437		<10	<1	0.02	10	0.64	240	<1	0.01	101	310	4	<0.01	<2	3	11
ZZ06438		<10	<1	0.03	10	0.67	255	<1	0.01	102	360	4	<0.01	<2	3	12
ZZ06439		10	1	0.04	10	0.59	216	<1	0.01	78	470	6	0.02	<2	1	12
ZZ06440		<10	<1	0.03	10	0.94	149	1	0.01	117	410	8	0.03	<2	4	12
ZZ06441		<10	<1	0.02	10	0.89	160	1	0.02	144	350	7	0.02	<2	3	11
ZZ06442		<10	<1	0.03	20	0.73	129	<1	0.01	142	520	7	0.02	2	4	16
ZZ06443		<10	<1	0.04	20	1.08	168	<1	0.02	267	430	9	0.05	<2	6	17
ZZ06444		<10	1	0.03	10	1.06	243	<1	0.01	239	460	7	0.02	<2	4	13
ZZ06445		<10	1	0.03	<10	0.24	238	<1	0.02	95	700	2	0.02	2	1	10
ZZ06446		10	<1	0.05	10	0.72	204	<1	0.01	160	650	4	0.03	<2	2	12
ZZ06447		<10	<1	0.05	<10	0.54	149	<1	0.02	133	1290	2	0.06	<2	1	13
ZZ06448		<10	<1	0.03	10	0.92	350	<1	0.02	220	470	5	<0.01	3	3	13
ZZ06449		10	1	0.05	10	0.86	207	<1	0.02	211	530	4	0.02	<2	2	11
ZZ06450		10	<1	0.05	10	0.65	126	<1	0.01	138	440	3	0.02	<2	1	9
ZZ06451		10	<1	0.07	<10	0.36	143	<1	0.02	119	930	4	0.05	<2	1	12
ZZ06452		<10	<1	0.02	10	1.01	122	<1	0.01	154	260	9	0.02	3	3	11
ZZ06453		<10	<1	0.04	10	1.27	152	<1	0.01	313	290	10	0.03	5	4	12
ZZ06454		<10	1	0.03	20	1.05	142	<1	0.01	392	290	11	0.02	<2	4	13
ZZ06455		<10	<1	0.03	20	0.98	150	<1	0.01	324	480	9	0.01	3	4	14
ZZ06456		<10	<1	0.03	20	1.00	132	<1	0.01	262	410	11	0.01	2	3	12
ZZ06457		<10	1	0.05	10	0.65	121	<1	0.03	358	900	4	0.03	<2	3	11
ZZ06458		<10	<1	0.04	10	1.00	266	<1	0.01	278	620	4	0.02	2	3	15
ZZ06459		10	<1	0.08	20	1.19	576	3	0.01	362	1940	12	0.09	<2	7	23



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Page: 6 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 14- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ06420		<20	0.04	<10	<10	30	<10	42
ZZ06421		<20	0.04	<10	<10	42	<10	52
ZZ06422		<20	0.02	<10	<10	37	<10	34
ZZ06423		<20	0.04	<10	<10	36	<10	51
ZZ06424		<20	0.03	<10	<10	51	<10	78
ZZ06425		<20	0.03	<10	<10	35	<10	31
ZZ06426		<20	0.04	<10	<10	29	<10	34
ZZ06427		<20	0.05	<10	<10	42	<10	48
ZZ06428		<20	0.04	<10	<10	33	<10	40
ZZ06429		<20	0.04	<10	<10	32	<10	44
ZZ06430		<20	0.02	<10	<10	28	<10	33
ZZ06431		<20	0.03	<10	<10	33	<10	49
ZZ06432		<20	0.04	<10	<10	31	<10	45
ZZ06433		<20	0.03	<10	<10	23	<10	25
ZZ06434		<20	0.05	<10	<10	42	<10	52
ZZ06435		<20	0.01	<10	<10	11	<10	13
ZZ06436		<20	0.03	<10	<10	57	<10	62
ZZ06437		<20	0.05	<10	<10	33	<10	42
ZZ06438		<20	0.04	<10	<10	34	<10	45
ZZ06439		<20	0.02	<10	<10	41	<10	77
ZZ06440		<20	0.05	<10	<10	78	<10	85
ZZ06441		<20	0.03	<10	<10	56	<10	46
ZZ06442		<20	0.05	<10	<10	41	<10	66
ZZ06443		<20	0.03	<10	<10	49	<10	84
ZZ06444		<20	0.03	<10	<10	48	<10	72
ZZ06445		<20	0.02	<10	<10	20	<10	25
ZZ06446		<20	0.03	<10	<10	42	<10	57
ZZ06447		<20	0.02	<10	<10	26	<10	43
ZZ06448		<20	0.04	<10	<10	38	<10	63
ZZ06449		<20	0.03	<10	<10	37	<10	55
ZZ06450		<20	0.03	<10	<10	34	<10	41
ZZ06451		<20	0.02	<10	<10	36	<10	30
ZZ06452		<20	0.04	<10	<10	39	<10	47
ZZ06453		<20	0.05	<10	<10	47	<10	72
ZZ06454		<20	0.05	<10	<10	49	<10	65
ZZ06455		<20	0.04	<10	<10	41	<10	68
ZZ06456		<20	0.05	<10	<10	37	<10	61
ZZ06457		<20	0.03	<10	<10	44	<10	49
ZZ06458		<20	0.04	<10	<10	34	<10	49
ZZ06459		<20	0.02	<10	<10	118	<10	53



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Page: 7 - A
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ06460		0.18	0.001	<0.2	1.35	8	<10	190	<0.5	<2	0.08	<0.5	16	254	14	2.12
ZZ06461		0.28	0.004	<0.2	0.87	8	<10	100	<0.5	<2	0.16	<0.5	23	292	14	2.35
ZZ06462		0.22	0.002	0.2	1.27	25	<10	150	<0.5	<2	0.09	<0.5	14	236	12	2.07
ZZ06463		0.30	0.003	<0.2	1.22	7	<10	90	<0.5	<2	0.08	<0.5	12	185	7	2.17
ZZ06464		0.30	0.005	<0.2	0.87	6	<10	90	<0.5	<2	0.13	<0.5	21	314	11	2.31
ZZ06465		0.10	0.006	0.2	2.88	54	<10	350	0.6	<2	0.16	<0.5	24	369	23	3.65
ZZ06466		0.22	0.001	<0.2	1.17	34	<10	70	<0.5	<2	0.04	<0.5	10	195	9	2.67
ZZ06467		0.20	0.002	<0.2	0.87	14	<10	80	<0.5	<2	0.06	<0.5	59	607	13	3.95
ZZ06468		0.20	0.002	<0.2	0.93	3	<10	100	<0.5	<2	0.05	<0.5	12	101	6	1.64
ZZ06469		0.12	<0.001	<0.2	1.23	10	<10	150	<0.5	<2	0.16	<0.5	41	257	16	3.61
ZZ06470		0.14	0.001	<0.2	1.12	12	<10	150	<0.5	2	0.07	<0.5	34	636	13	4.52
ZZ06471		0.20	0.001	0.2	2.33	29	<10	300	1.0	<2	0.05	1.1	58	463	42	6.04
ZZ06472		0.24	0.026	<0.2	0.96	8	<10	90	<0.5	<2	0.08	<0.5	22	360	13	2.66
ZZ06473		0.18	0.008	<0.2	0.91	4	<10	80	<0.5	<2	0.12	<0.5	17	224	11	2.15
ZZ06474		0.22	0.004	<0.2	0.92	6	<10	70	<0.5	<2	0.12	<0.5	14	247	13	2.09
ZZ06475		0.26	0.002	0.2	0.99	4	<10	80	<0.5	<2	0.08	<0.5	14	253	10	2.05
ZZ06476		0.30	0.012	<0.2	0.89	6	<10	60	<0.5	<2	0.10	<0.5	23	420	13	2.65
ZZ06477		0.30	0.128	<0.2	1.12	6	<10	80	<0.5	<2	0.09	<0.5	39	338	11	2.57
ZZ06478		0.30	0.013	<0.2	1.37	3	<10	80	<0.5	<2	0.09	<0.5	17	385	14	1.46
ZZ06479		0.28	0.002	0.2	1.77	6	<10	130	0.5	<2	0.07	<0.5	11	93	32	3.29
ZZ06480		0.26	0.003	0.3	2.23	18	<10	110	<0.5	<2	0.14	<0.5	17	204	44	3.82
ZZ06481		0.22	0.002	<0.2	2.06	11	<10	70	0.5	<2	0.09	<0.5	14	150	27	3.39
ZZ06482		0.26	0.003	0.3	2.16	8	<10	70	<0.5	<2	0.18	<0.5	14	136	27	3.26
ZZ06483		0.20	<0.001	0.2	1.96	8	<10	50	<0.5	<2	0.19	<0.5	17	190	30	3.85
ZZ06484		0.28	0.003	<0.2	2.11	10	<10	130	0.5	<2	0.12	<0.5	13	166	23	3.13
ZZ06485		0.16	0.004	1.6	5.05	16	<10	200	1.4	<2	0.43	<0.5	18	245	27	3.34
ZZ06486		0.26	0.002	0.2	1.89	16	<10	140	0.6	<2	0.23	<0.5	19	220	32	3.25
ZZ06487		0.22	0.002	<0.2	1.68	19	<10	140	0.5	<2	0.35	<0.5	24	202	32	3.36
ZZ06488		0.28	0.002	0.3	2.42	13	<10	170	0.5	<2	0.38	<0.5	16	193	30	3.08
ZZ06489		0.30	0.024	0.2	2.36	14	<10	190	0.6	<2	0.30	<0.5	19	147	34	3.24
ZZ06490		0.14	0.005	0.2	0.66	14	<10	140	<0.5	<2	0.29	0.7	13	21	8	0.82
ZZ06491		0.12	0.203	<0.2	0.85	14	<10	80	<0.5	2	0.05	<0.5	4	37	11	1.48
ZZ06492		0.16	0.001	<0.2	2.03	26	<10	200	0.7	<2	0.31	<0.5	9	86	15	2.93
ZZ06493		0.18	0.003	0.3	0.56	10	<10	80	0.5	<2	0.03	<0.5	3	24	22	1.42
ZZ06494		0.16	0.003	<0.2	2.22	37	<10	110	<0.5	<2	0.09	<0.5	13	116	43	4.07
ZZ06495		0.16	0.002	<0.2	2.31	64	<10	80	0.8	2	0.08	<0.5	12	140	47	5.29
ZZ06496		0.20	0.005	0.3	2.25	52	<10	220	1.6	<2	0.28	<0.5	15	98	29	4.15
ZZ06497		0.14	0.001	0.3	2.11	53	<10	140	1.8	<2	0.07	<0.5	12	59	22	4.10
ZZ06498		0.18	0.001	<0.2	1.29	14	<10	50	<0.5	<2	0.06	<0.5	6	45	19	2.91
ZZ06499		0.22	0.003	<0.2	1.79	16	<10	90	0.7	<2	0.06	<0.5	8	77	16	3.11



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Page: 7 - B
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CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ06460		10	<1	0.07	10	0.89	277	2	0.01	173	590	6	<0.01	<2	1	12
ZZ06461		<10	<1	0.03	10	0.95	277	2	<0.01	238	360	6	<0.01	<2	3	13
ZZ06462		<10	<1	0.04	10	0.89	135	2	0.01	222	400	4	<0.01	<2	2	12
ZZ06463		<10	<1	0.02	20	0.62	165	2	<0.01	120	210	7	<0.01	<2	2	9
ZZ06464		<10	<1	0.03	10	0.93	201	2	<0.01	259	280	5	<0.01	<2	2	11
ZZ06465		10	<1	0.06	20	1.44	162	3	0.01	638	1160	8	0.05	<2	6	17
ZZ06466		10	<1	0.03	10	0.43	333	3	<0.01	97	370	10	<0.01	<2	1	8
ZZ06467		<10	<1	0.03	10	5.44	865	2	<0.01	652	220	4	<0.01	<2	3	8
ZZ06468		<10	<1	0.04	10	0.59	410	2	0.01	113	240	4	<0.01	<2	1	9
ZZ06469		<10	<1	0.05	10	3.91	838	2	0.01	556	1300	6	0.06	<2	3	16
ZZ06470		<10	<1	0.05	10	2.09	600	2	<0.01	411	470	9	<0.01	<2	3	11
ZZ06471		10	<1	0.09	20	2.46	1190	3	<0.01	660	1150	16	0.02	<2	7	20
ZZ06472		<10	<1	0.03	10	1.33	290	2	<0.01	365	110	5	<0.01	<2	3	9
ZZ06473		<10	<1	0.03	20	0.85	263	2	<0.01	227	240	5	<0.01	<2	2	11
ZZ06474		<10	<1	0.02	10	1.00	205	2	<0.01	232	230	5	<0.01	<2	2	11
ZZ06475		<10	<1	0.02	10	0.82	182	2	<0.01	197	170	6	<0.01	<2	2	10
ZZ06476		<10	<1	0.03	10	1.58	363	2	<0.01	285	310	5	<0.01	<2	2	9
ZZ06477		<10	<1	0.02	10	0.99	593	2	<0.01	312	160	6	<0.01	<2	2	9
ZZ06478		<10	<1	0.01	10	1.13	134	2	<0.01	249	60	7	<0.01	<2	4	7
ZZ06479		10	<1	0.38	10	0.66	240	2	0.01	62	350	9	0.03	<2	4	9
ZZ06480		10	<1	0.24	10	1.46	278	2	0.01	94	460	8	<0.01	<2	6	8
ZZ06481		10	<1	0.18	10	0.85	258	2	<0.01	85	390	8	0.01	<2	4	7
ZZ06482		10	<1	0.06	10	1.26	218	2	0.02	73	360	10	<0.01	<2	4	8
ZZ06483		10	<1	0.07	10	1.37	538	2	0.02	101	610	10	<0.01	<2	6	7
ZZ06484		10	<1	0.17	10	0.95	326	2	<0.01	103	380	9	<0.01	<2	4	7
ZZ06485		10	<1	0.06	20	0.46	1300	3	0.01	103	4590	12	0.21	2	3	20
ZZ06486		10	<1	0.19	20	0.91	235	2	0.01	147	430	9	<0.01	<2	6	13
ZZ06487		10	<1	0.21	10	0.94	301	2	0.02	147	780	7	<0.01	<2	5	16
ZZ06488		10	<1	0.11	10	1.22	347	2	0.03	94	890	7	0.03	<2	3	23
ZZ06489		10	<1	0.24	10	1.17	319	2	0.01	91	570	7	<0.01	<2	5	14
ZZ06490		<10	<1	0.04	<10	0.13	2230	3	0.02	13	1180	4	0.04	<2	<1	12
ZZ06491		10	<1	0.14	20	0.27	142	2	<0.01	14	430	16	0.02	<2	1	10
ZZ06492		10	<1	0.10	10	1.01	247	2	0.01	37	810	16	0.04	<2	3	17
ZZ06493		<10	<1	0.10	10	0.08	64	3	<0.01	12	370	24	0.07	<2	<1	10
ZZ06494		10	<1	0.19	10	0.99	331	2	0.01	72	520	8	<0.01	<2	6	7
ZZ06495		10	<1	0.17	10	1.07	385	2	0.03	72	580	18	0.04	<2	9	6
ZZ06496		10	<1	0.40	10	1.27	621	2	0.04	41	720	18	0.06	<2	8	16
ZZ06497		10	<1	0.30	10	0.83	619	3	0.02	28	510	25	0.07	<2	5	9
ZZ06498		10	<1	0.20	10	0.42	157	2	0.02	21	560	17	0.17	<2	3	6
ZZ06499		10	<1	0.28	10	0.69	206	2	0.02	29	450	18	0.19	<2	5	6



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Page: 7 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 14- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ06460		<20	0.02	<10	<10	34	<10	35
ZZ06461		<20	0.04	<10	<10	30	<10	45
ZZ06462		<20	0.02	<10	<10	27	<10	43
ZZ06463		<20	0.03	<10	<10	35	<10	34
ZZ06464		<20	0.04	<10	<10	29	<10	44
ZZ06465		<20	0.03	<10	<10	39	<10	75
ZZ06466		<20	0.04	<10	<10	68	<10	36
ZZ06467		<20	0.03	<10	<10	31	<10	39
ZZ06468		<20	0.03	<10	<10	30	<10	28
ZZ06469		<20	0.02	<10	<10	31	<10	48
ZZ06470		<20	0.03	<10	<10	46	<10	60
ZZ06471		<20	0.03	<10	<10	61	<10	68
ZZ06472		<20	0.04	<10	<10	32	<10	39
ZZ06473		<20	0.05	<10	<10	27	<10	39
ZZ06474		<20	0.05	<10	<10	29	<10	38
ZZ06475		<20	0.04	<10	<10	29	<10	41
ZZ06476		<20	0.03	<10	<10	32	<10	43
ZZ06477		<20	0.04	<10	<10	34	<10	43
ZZ06478		<20	0.06	<10	<10	36	<10	34
ZZ06479		<20	0.13	<10	<10	53	<10	63
ZZ06480		<20	0.10	<10	<10	102	<10	75
ZZ06481		<20	0.10	<10	<10	63	<10	61
ZZ06482		<20	0.09	<10	<10	81	<10	50
ZZ06483		<20	0.11	<10	<10	103	<10	64
ZZ06484		<20	0.13	<10	<10	69	<10	67
ZZ06485		<20	0.02	<10	<10	60	<10	97
ZZ06486		<20	0.11	<10	<10	66	<10	54
ZZ06487		<20	0.12	<10	<10	66	<10	56
ZZ06488		<20	0.09	<10	<10	79	<10	127
ZZ06489		<20	0.15	<10	<10	74	<10	83
ZZ06490		<20	0.01	<10	<10	26	<10	28
ZZ06491		<20	0.12	<10	<10	48	<10	31
ZZ06492		<20	0.08	<10	<10	62	<10	116
ZZ06493		<20	0.02	<10	<10	25	70	24
ZZ06494		<20	0.21	<10	<10	98	<10	68
ZZ06495		<20	0.17	<10	<10	152	<10	94
ZZ06496		<20	0.20	<10	<10	131	<10	146
ZZ06497		<20	0.17	<10	<10	99	<10	84
ZZ06498		<20	0.17	<10	<10	72	<10	51
ZZ06499		<20	0.15	<10	<10	69	<10	64



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Page: 8 - A
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 14- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ06500		0.20	0.001	0.5	1.84	55	<10	170	1.6	<2	0.36	<0.5	15	75	42	3.73
ZZ06281		0.36	0.529	<0.2	1.79	9	<10	100	<0.5	<2	0.06	<0.5	27	343	12	3.31
ZZ06282		0.18	0.003	<0.2	1.34	8	<10	160	<0.5	<2	0.10	<0.5	22	288	16	2.83



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**Page: 8 - B
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 14- OCT- 2011
 Account: F**

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ06500		10	<1	0.25	30	0.78	791	3	0.02	41	670	22	0.16	<2	4
ZZ06281		<10	<1	0.03	10	0.90	232	3	0.02	266	230	7	0.08	<2	3
ZZ06282		<10	<1	0.04	10	1.66	355	2	0.02	285	140	8	0.06	<2	3



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Page: 8 - C
 Total # Pages: 8 (A - C)
 Plus Appendix Pages
 Finalized Date: 14- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ06500		<20	0.11	<10	<10	57	10	97
ZZ06281		<20	0.04	<10	<10	40	<10	65
ZZ06282		<20	0.04	<10	<10	37	<10	54



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171437

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.



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Page: 1
Finalized Date: 15- OCT- 2011
Account: F

CERTIFICATE WH11171438

Project: WLW Finlayson - Has/Vivi

P.O. No.:

This report is for 110 Soil samples submitted to our lab in Whitehorse, YT, Canada on 24- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - C)
Finalized Date: 15- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171438

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05941		0.30	0.005	<0.2	0.98	9	<10	80	<0.5	2	0.08	<0.5	25	369	13	2.90
ZZ05942		0.30	0.003	<0.2	1.24	20	<10	80	<0.5	<2	0.11	<0.5	33	360	22	3.20
ZZ05943		0.18	0.003	<0.2	2.25	29	<10	110	<0.5	<2	0.19	<0.5	26	145	70	3.49
ZZ05944		0.22	0.005	0.2	2.42	75	<10	80	<0.5	<2	0.12	<0.5	27	152	86	3.86
ZZ05945		0.28	0.009	<0.2	0.95	108	<10	90	<0.5	<2	0.07	<0.5	22	234	11	3.08
ZZ05946		0.46	0.001	0.3	1.86	20	<10	120	<0.5	<2	0.06	0.6	19	275	77	4.12
ZZ05947		0.26	0.002	<0.2	1.97	56	<10	390	0.5	<2	0.28	<0.5	13	60	185	2.64
ZZ05948		0.26	0.002	<0.2	1.86	12	<10	150	<0.5	2	0.13	<0.5	14	314	51	2.14
ZZ05949		0.30	0.006	<0.2	2.06	21	<10	120	<0.5	2	0.08	<0.5	29	455	67	3.49
ZZ05950		0.16	0.001	<0.2	1.18	12	<10	120	<0.5	<2	0.18	<0.5	28	425	22	3.46
ZZ05651		0.18	0.001	<0.2	2.77	155	<10	210	<0.5	<2	0.10	<0.5	26	246	168	3.35
ZZ05652		0.26	0.002	<0.2	2.66	19	<10	110	<0.5	<2	0.07	<0.5	24	335	42	3.15
ZZ05653		0.22	0.004	0.2	1.97	15	<10	130	<0.5	<2	0.06	<0.5	16	283	25	2.84
ZZ05654		0.32	0.001	<0.2	1.07	8	<10	50	<0.5	<2	0.04	<0.5	8	217	12	2.49
ZZ05655		0.32	0.002	<0.2	3.55	21	<10	130	<0.5	<2	0.09	<0.5	24	284	67	3.27
ZZ05656		0.18	0.005	<0.2	3.31	33	<10	190	<0.5	<2	0.08	<0.5	17	282	70	2.70
ZZ05657		0.20	0.001	<0.2	2.64	8	<10	120	<0.5	<2	0.04	<0.5	6	57	22	3.76
ZZ05658		0.18	0.001	<0.2	5.75	5	<10	150	0.5	<2	0.25	<0.5	39	497	111	5.88
ZZ05659		0.16	0.014	0.2	2.21	9	<10	80	<0.5	<2	0.06	<0.5	18	363	30	3.56
ZZ05660		0.18	0.024	<0.2	0.91	13	<10	70	<0.5	<2	0.05	<0.5	10	298	14	2.52
ZZ05661		0.16	0.006	<0.2	1.89	4	<10	90	<0.5	<2	0.06	<0.5	5	74	17	2.52
ZZ05662		0.22	0.011	0.3	1.31	14	<10	80	<0.5	<2	0.06	<0.5	11	129	18	2.69
ZZ05663		0.26	0.047	<0.2	1.13	4	<10	40	<0.5	<2	0.03	<0.5	6	142	15	1.75
ZZ05664		0.26	0.012	<0.2	2.26	50	<10	60	1.3	<2	0.07	<0.5	20	104	34	3.45
ZZ05665		0.18	0.005	<0.2	1.87	24	<10	70	0.8	<2	0.06	<0.5	8	52	20	2.74
ZZ05666		0.20	0.006	<0.2	2.10	117	<10	70	0.6	<2	0.04	<0.5	16	151	23	4.14
ZZ05667		0.42	0.036	<0.2	2.41	97	<10	120	0.5	<2	0.19	<0.5	17	143	38	3.34
ZZ05668		0.28	0.007	<0.2	2.13	91	<10	70	<0.5	<2	0.15	<0.5	26	215	16	5.17
ZZ05669		0.28	0.029	<0.2	1.23	189	<10	130	0.6	<2	0.07	<0.5	46	210	13	5.23
ZZ05670		0.28	0.009	0.2	1.28	128	<10	70	<0.5	<2	0.02	<0.5	7	67	13	2.82
ZZ05671		0.30	0.008	<0.2	2.64	8	<10	90	0.9	<2	0.05	<0.5	7	63	24	3.25
ZZ05672		0.18	0.017	<0.2	1.25	16	<10	40	<0.5	<2	0.05	<0.5	18	447	19	4.63
ZZ05673		0.20	0.002	0.3	2.43	8	<10	70	0.6	2	0.07	<0.5	8	189	13	3.06
ZZ05674		0.26	0.002	0.3	1.77	9	<10	60	<0.5	<2	0.05	<0.5	8	219	14	3.24
ZZ05675		0.24	0.004	0.4	2.83	9	<10	90	0.9	<2	0.05	<0.5	9	97	21	3.61
ZZ05676		0.28	0.004	<0.2	3.11	19	<10	120	1.3	<2	0.05	<0.5	18	168	31	4.18
ZZ05677		0.24	0.003	0.2	2.25	20	<10	80	0.8	<2	0.05	<0.5	19	271	19	4.35
ZZ05678		0.36	0.072	<0.2	2.02	114	<10	170	0.8	<2	0.08	0.5	38	303	23	6.82
ZZ05679		0.20	0.008	<0.2	2.28	52	<10	100	1.1	<2	0.05	<0.5	30	267	17	4.65
ZZ05680		0.18	0.001	<0.2	6.35	3	<10	300	1.2	<2	0.08	<0.5	9	126	29	6.62



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Page: 2 - B
Total # Pages: 4 (A - C)
Finalized Date: 15- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171438

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05941		<10	<1	0.03	10	1.85	382	<1	<0.01	328	350	6	<0.01	<2	2	9
ZZ05942		<10	<1	0.04	10	2.40	430	<1	<0.01	472	340	31	<0.01	<2	4	8
ZZ05943		10	1	0.05	10	1.59	377	<1	0.01	187	300	6	0.01	<2	5	12
ZZ05944		10	1	0.03	<10	1.83	382	<1	0.01	254	190	3	<0.01	<2	7	6
ZZ05945		10	<1	0.03	10	0.78	303	1	<0.01	284	250	8	<0.01	2	2	8
ZZ05946		10	<1	0.08	10	1.34	418	10	0.02	184	470	90	0.16	<2	5	17
ZZ05947		10	<1	0.19	20	0.94	567	<1	0.01	66	450	20	0.02	<2	5	11
ZZ05948		10	<1	0.03	10	1.56	193	<1	0.01	139	150	2	<0.01	<2	3	10
ZZ05949		<10	<1	0.02	<10	2.06	218	<1	0.01	372	180	23	<0.01	<2	3	7
ZZ05950		<10	<1	0.03	10	2.04	362	<1	<0.01	333	220	4	<0.01	<2	3	9
ZZ05651		10	1	0.05	10	1.52	542	<1	0.01	173	260	19	<0.01	<2	4	7
ZZ05652		10	<1	0.04	10	1.29	213	<1	0.01	257	260	6	<0.01	<2	3	6
ZZ05653		10	<1	0.03	10	1.14	202	<1	<0.01	158	250	6	<0.01	<2	3	6
ZZ05654		10	<1	0.02	10	0.69	171	<1	<0.01	101	180	3	<0.01	<2	2	4
ZZ05655		10	1	0.04	10	1.31	242	<1	0.01	183	290	9	<0.01	<2	6	8
ZZ05656		10	1	0.03	10	1.10	162	<1	0.01	138	340	6	0.01	<2	3	6
ZZ05657		10	<1	0.02	10	0.42	129	1	<0.01	21	360	11	0.01	<2	3	6
ZZ05658		10	<1	0.02	<10	1.03	3300	<1	0.07	200	490	6	0.03	<2	5	10
ZZ05659		<10	1	0.03	10	1.35	255	2	0.01	247	350	7	0.02	<2	3	8
ZZ05660		10	1	0.03	10	0.71	304	2	<0.01	143	400	7	0.01	<2	1	5
ZZ05661		10	1	0.05	10	0.97	239	5	<0.01	37	370	11	0.02	<2	3	10
ZZ05662		10	<1	0.05	10	0.58	383	4	<0.01	66	360	19	<0.01	<2	1	9
ZZ05663		10	<1	0.04	10	0.51	126	1	<0.01	69	410	11	0.01	<2	<1	6
ZZ05664		10	1	0.08	20	0.82	321	1	<0.01	175	610	13	0.03	2	3	14
ZZ05665		10	1	0.06	10	0.65	187	3	<0.01	88	310	12	0.03	<2	2	12
ZZ05666		10	<1	0.06	10	0.92	332	1	<0.01	207	380	9	0.01	2	4	7
ZZ05667		10	1	0.03	10	1.60	495	<1	0.01	179	520	8	0.01	<2	6	19
ZZ05668		10	1	0.02	10	1.43	565	<1	<0.01	335	300	5	<0.01	4	9	11
ZZ05669		<10	1	0.04	10	1.71	855	<1	<0.01	873	320	8	<0.01	23	6	12
ZZ05670		<10	<1	0.04	20	0.21	311	2	<0.01	53	670	9	<0.01	2	1	10
ZZ05671		10	<1	0.13	20	0.70	212	1	0.01	44	540	12	0.04	<2	4	21
ZZ05672		10	<1	0.05	10	1.38	254	<1	<0.01	329	650	10	0.01	<2	3	6
ZZ05673		10	<1	0.06	10	0.41	234	1	0.01	69	760	11	0.03	<2	2	8
ZZ05674		10	<1	0.06	20	0.62	169	1	0.01	93	460	11	0.02	<2	3	8
ZZ05675		10	<1	0.14	20	0.74	229	1	0.01	48	560	12	0.04	<2	3	13
ZZ05676		10	<1	0.22	20	1.19	308	1	0.01	146	420	11	0.04	2	5	9
ZZ05677		10	1	0.09	10	0.96	443	1	0.01	188	450	13	0.03	<2	4	8
ZZ05678		10	<1	0.12	20	1.89	883	<1	0.01	617	640	9	0.02	3	10	11
ZZ05679		10	<1	0.07	20	1.14	573	1	0.01	329	480	12	0.03	<2	5	9
ZZ05680		20	<1	0.71	10	1.56	417	2	0.02	42	1030	18	0.13	<2	19	10



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Page: 2 - C
 Total # Pages: 4 (A - C)
 Finalized Date: 15- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171438

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05941		<20	0.04	<10	<10	37	<10	52
ZZ05942		<20	0.04	<10	<10	46	<10	59
ZZ05943		<20	0.04	<10	<10	82	<10	55
ZZ05944		<20	0.03	<10	<10	123	<10	47
ZZ05945		<20	0.04	<10	<10	65	<10	46
ZZ05946		<20	0.06	<10	<10	94	<10	185
ZZ05947		<20	0.07	<10	<10	43	<10	75
ZZ05948		<20	0.07	<10	<10	67	<10	39
ZZ05949		<20	0.07	<10	<10	74	<10	49
ZZ05950		<20	0.05	<10	<10	46	<10	50
ZZ05651		<20	0.07	<10	<10	91	<10	73
ZZ05652		<20	0.05	<10	<10	54	<10	46
ZZ05653		<20	0.05	<10	<10	49	<10	49
ZZ05654		<20	0.08	<10	<10	87	<10	29
ZZ05655		<20	0.05	<10	<10	69	<10	51
ZZ05656		<20	0.08	<10	<10	77	<10	50
ZZ05657		<20	0.06	<10	<10	78	<10	50
ZZ05658		<20	0.13	<10	<10	126	<10	53
ZZ05659		<20	0.04	<10	<10	45	<10	78
ZZ05660		<20	0.07	<10	<10	78	<10	34
ZZ05661		<20	0.11	<10	<10	82	<10	82
ZZ05662		<20	0.05	<10	<10	72	<10	61
ZZ05663		<20	0.02	<10	<10	38	<10	30
ZZ05664		<20	0.04	<10	<10	52	<10	56
ZZ05665		<20	0.05	<10	<10	53	<10	55
ZZ05666		<20	0.06	<10	<10	71	<10	84
ZZ05667		<20	0.04	<10	<10	71	<10	74
ZZ05668		<20	0.02	<10	<10	130	<10	62
ZZ05669		<20	0.03	<10	<10	35	<10	68
ZZ05670		<20	0.01	<10	<10	37	<10	50
ZZ05671		<20	0.05	<10	<10	46	<10	64
ZZ05672		<20	0.04	<10	<10	53	<10	43
ZZ05673		<20	0.04	<10	<10	44	<10	56
ZZ05674		<20	0.04	<10	<10	50	<10	50
ZZ05675		<20	0.06	<10	<10	47	<10	66
ZZ05676		<20	0.08	<10	<10	58	<10	77
ZZ05677		<20	0.06	<10	<10	54	<10	71
ZZ05678		<20	0.06	<10	<10	50	<10	64
ZZ05679		<20	0.04	<10	<10	44	<10	54
ZZ05680		<20	0.15	<10	<10	156	<10	117



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Page: 3 - A
Total # Pages: 4 (A - C)
Finalized Date: 15- OCT- 2011
Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171438

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05681		0.28	0.026	<0.2	1.64	382	<10	120	1.2	2	0.06	0.5	59	423	13	7.66
ZZ05682		0.28	0.005	<0.2	1.13	192	<10	100	<0.5	<2	0.04	<0.5	52	456	9	6.72
ZZ05683		0.20	0.002	0.3	1.94	54	<10	70	<0.5	<2	0.05	<0.5	16	206	15	3.19
ZZ05684		0.18	0.006	0.2	2.41	18	<10	80	0.7	<2	0.06	<0.5	9	78	31	3.04
ZZ05685		0.18	0.004	0.2	2.82	11	<10	80	1.1	<2	0.07	<0.5	10	83	23	3.14
ZZ05686		0.16	0.003	<0.2	2.26	12	<10	70	0.7	<2	0.11	<0.5	9	58	20	2.73
ZZ05687		0.18	0.003	<0.2	1.47	7	<10	50	<0.5	<2	0.04	<0.5	4	45	10	2.65
ZZ05688		0.18	0.002	<0.2	1.41	11	<10	40	<0.5	<2	0.02	<0.5	4	62	11	2.09
ZZ05689		0.22	0.003	0.2	2.04	14	<10	70	<0.5	<2	0.05	<0.5	11	128	21	2.84
ZZ05690		0.16	0.001	0.4	3.10	5	<10	380	<0.5	<2	0.05	<0.5	4	172	112	6.79
ZZ05691		0.16	0.003	<0.2	2.25	12	<10	210	<0.5	<2	0.07	<0.5	10	229	26	2.74
ZZ05692		0.14	0.002	<0.2	1.40	6	<10	70	<0.5	<2	0.04	<0.5	5	87	9	1.98
ZZ05693		0.20	0.002	<0.2	2.16	18	<10	90	<0.5	<2	0.05	<0.5	11	273	18	2.57
ZZ05694		0.12	0.003	<0.2	5.10	16	<10	60	<0.5	<2	0.06	<0.5	5	211	44	2.24
ZZ05695		0.38	0.002	<0.2	1.50	13	<10	100	<0.5	<2	0.10	<0.5	8	171	16	2.51
ZZ05696		0.20	0.003	<0.2	2.50	22	<10	80	<0.5	<2	0.06	<0.5	12	246	47	3.25
ZZ05697		0.28	0.001	<0.2	1.60	5	<10	50	<0.5	<2	0.04	<0.5	5	132	13	1.80
ZZ05698		0.16	0.003	<0.2	2.55	7	<10	50	<0.5	<2	0.09	<0.5	8	129	41	1.88
ZZ05699		0.26	0.017	<0.2	2.94	8	<10	90	<0.5	<2	0.08	<0.5	15	223	60	2.51
ZZ05700		0.16	0.002	<0.2	2.66	18	<10	50	<0.5	<2	0.06	<0.5	12	191	49	2.18
ZZ06001		0.16	0.007	<0.2	0.63	17	<10	50	<0.5	<2	0.04	<0.5	58	771	9	4.77
ZZ06002		0.44	0.004	<0.2	3.02	64	<10	550	<0.5	<2	0.19	<0.5	56	429	165	3.79
ZZ06003		0.38	0.002	<0.2	0.79	17	<10	60	<0.5	<2	0.04	<0.5	35	545	13	3.96
ZZ06004		0.26	0.002	<0.2	3.07	22	<10	190	<0.5	<2	0.11	<0.5	20	320	43	3.10
ZZ06005		0.26	0.002	<0.2	3.21	39	<10	90	<0.5	<2	0.07	<0.5	25	287	54	3.35
ZZ06006		0.22	0.009	0.7	4.54	166	<10	270	0.7	<2	0.38	<0.5	101	296	230	4.94
ZZ06007		0.30	<0.001	<0.2	2.34	9	<10	110	<0.5	<2	0.15	<0.5	21	256	78	2.99
ZZ06008		0.36	0.006	<0.2	2.68	15	<10	80	<0.5	<2	0.09	<0.5	19	344	42	3.23
ZZ06009		0.26	0.006	<0.2	2.08	42	<10	200	<0.5	<2	0.31	<0.5	21	292	184	3.28
ZZ06310		0.38	0.004	0.2	2.01	13	<10	130	0.7	<2	0.11	<0.5	13	134	20	3.27
ZZ06311		0.32	0.031	<0.2	2.09	46	<10	110	0.9	<2	0.11	<0.5	20	160	30	4.37
ZZ06312		0.28	0.003	0.4	1.68	30	<10	140	0.6	<2	0.08	<0.5	13	216	8	3.71
ZZ06313		0.36	0.020	<0.2	0.63	121	<10	30	<0.5	<2	0.07	<0.5	44	402	14	3.71
ZZ06314		0.26	0.005	<0.2	2.31	12	<10	70	0.7	<2	0.07	<0.5	13	162	16	3.42
ZZ06315		0.30	0.005	<0.2	1.61	7	<10	40	<0.5	<2	0.04	<0.5	6	111	12	2.30
ZZ06316		0.20	0.053	<0.2	1.95	12	<10	60	0.6	<2	0.07	<0.5	12	219	17	3.61
ZZ06317		0.34	0.006	<0.2	1.93	7	<10	50	0.7	<2	0.04	<0.5	9	75	18	2.59
ZZ06318		0.24	0.004	0.2	2.26	8	<10	80	0.8	<2	0.09	<0.5	8	54	20	2.73
ZZ06319		0.30	0.007	0.2	2.72	10	<10	80	1.1	<2	0.07	<0.5	9	54	24	3.25
ZZ06320		0.28	0.005	0.5	2.00	12	<10	50	0.7	<2	0.03	<0.5	8	53	22	2.91



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Page: 3 - B
 Total # Pages: 4 (A - C)
 Finalized Date: 15- OCT- 2011
 Account: F

Project: WLV Finlayson - Has/Vivi

CERTIFICATE OF ANALYSIS WH11171438

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05681		<10	1	0.03	10	0.72	1225	1	0.01	933	330	12	0.01	79	6	16
ZZ05682		<10	<1	0.03	10	1.52	1805	<1	0.01	669	540	5	0.02	2	8	6
ZZ05683		10	<1	0.02	10	1.04	308	<1	0.01	162	350	7	0.02	2	4	7
ZZ05684		10	1	0.08	20	0.99	257	2	0.01	136	540	12	0.03	<2	5	8
ZZ05685		10	<1	0.11	20	0.78	228	1	0.01	63	520	12	0.03	2	4	14
ZZ05686		10	<1	0.09	20	0.69	211	1	0.01	59	610	12	0.03	<2	3	12
ZZ05687		10	<1	0.04	20	0.31	259	1	0.01	20	370	13	0.02	<2	1	9
ZZ05688		10	<1	0.03	10	0.34	94	4	0.01	33	240	16	0.03	<2	2	8
ZZ05689		10	<1	0.10	10	0.95	229	1	0.01	77	280	9	0.02	<2	3	7
ZZ05690		10	<1	0.13	<10	1.48	295	<1	0.04	13	760	11	0.32	<2	7	9
ZZ05691		10	<1	0.04	10	1.16	168	<1	0.02	54	300	5	0.03	<2	3	5
ZZ05692		10	<1	0.03	10	0.50	101	<1	0.01	28	160	8	0.02	<2	2	5
ZZ05693		10	<1	0.03	10	0.68	136	<1	0.01	111	400	8	0.03	<2	2	5
ZZ05694		10	<1	0.02	10	0.45	54	<1	0.02	32	930	5	0.06	<2	3	4
ZZ05695		10	<1	0.04	10	0.69	170	<1	0.01	72	230	9	0.02	2	2	9
ZZ05696		10	<1	0.04	10	0.95	193	<1	0.01	98	320	7	0.03	<2	4	5
ZZ05697		10	<1	0.03	10	0.47	151	<1	0.01	35	260	7	0.02	<2	2	5
ZZ05698		<10	<1	0.03	10	0.65	145	<1	0.02	61	600	6	0.02	<2	3	6
ZZ05699		<10	<1	0.03	10	1.06	171	1	0.01	124	310	15	0.04	<2	4	6
ZZ05700		<10	<1	0.03	10	0.91	147	1	0.01	89	310	8	0.03	<2	3	5
ZZ06001		<10	<1	0.02	<10	3.45	758	<1	0.01	647	320	7	0.03	2	3	4
ZZ06002		10	<1	0.58	<10	2.58	476	1	0.02	319	190	6	0.14	<2	6	13
ZZ06003		<10	<1	0.03	10	2.29	429	1	<0.01	415	190	9	0.02	<2	2	5
ZZ06004		10	<1	0.05	10	1.46	247	1	0.01	125	210	8	0.03	2	4	8
ZZ06005		10	<1	0.05	10	1.18	199	1	0.01	159	230	9	0.04	2	4	6
ZZ06006		10	1	0.05	10	0.86	1530	2	0.01	139	890	12	0.09	2	8	14
ZZ06007		<10	<1	0.05	10	1.61	231	<1	0.01	113	210	4	0.03	<2	4	8
ZZ06008		<10	<1	0.03	10	1.38	190	1	0.01	206	350	8	0.04	<2	3	7
ZZ06009		<10	<1	0.07	<10	1.65	396	1	0.02	139	170	10	0.01	<2	7	9
ZZ06310		10	<1	0.09	20	0.88	253	1	0.01	120	520	9	0.01	<2	4	11
ZZ06311		10	<1	0.15	20	1.31	405	1	0.01	267	350	11	0.02	<2	6	16
ZZ06312		<10	<1	0.04	10	0.61	501	<1	0.01	155	1230	9	0.05	<2	2	13
ZZ06313		<10	<1	0.03	10	2.40	523	<1	0.01	790	230	4	<0.01	<2	5	7
ZZ06314		10	<1	0.07	10	0.66	188	1	0.01	134	370	12	0.01	<2	3	10
ZZ06315		10	<1	0.04	10	0.44	141	<1	0.01	64	490	10	0.01	<2	1	8
ZZ06316		10	<1	0.07	10	0.87	216	1	0.01	144	570	12	0.02	<2	3	11
ZZ06317		10	<1	0.05	20	0.53	180	1	0.01	47	550	12	0.01	<2	2	11
ZZ06318		10	<1	0.09	20	0.64	212	1	0.01	38	450	12	0.01	<2	3	16
ZZ06319		10	<1	0.18	20	0.79	201	2	0.01	41	490	12	0.02	<2	4	16
ZZ06320		10	<1	0.07	10	0.50	173	1	0.01	41	380	14	0.02	<2	2	15



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Page: 3 - C
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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05681		<20	0.01	<10	<10	46	<10	80
ZZ05682		<20	0.03	<10	<10	36	<10	61
ZZ05683		<20	0.03	<10	<10	68	<10	42
ZZ05684		<20	0.08	<10	<10	91	<10	98
ZZ05685		<20	0.07	<10	<10	52	<10	60
ZZ05686		<20	0.06	<10	<10	48	<10	61
ZZ05687		<20	0.04	<10	<10	43	<10	35
ZZ05688		<20	0.05	<10	<10	47	<10	24
ZZ05689		<20	0.08	<10	<10	57	<10	57
ZZ05690		<20	0.23	<10	<10	208	<10	47
ZZ05691		<20	0.11	<10	<10	97	<10	39
ZZ05692		<20	0.09	<10	<10	102	<10	29
ZZ05693		<20	0.05	<10	<10	61	<10	39
ZZ05694		<20	0.06	<10	<10	59	<10	21
ZZ05695		<20	0.05	<10	<10	52	<10	49
ZZ05696		<20	0.05	<10	<10	62	<10	56
ZZ05697		<20	0.04	<10	<10	50	<10	28
ZZ05698		<20	0.04	<10	<10	39	<10	33
ZZ05699		<20	0.05	<10	<10	52	<10	41
ZZ05700		<20	0.05	<10	<10	51	<10	39
ZZ06001		<20	0.03	<10	<10	43	<10	50
ZZ06002		<20	0.11	<10	<10	118	<10	59
ZZ06003		<20	0.04	<10	<10	53	<10	52
ZZ06004		<20	0.08	<10	<10	87	<10	57
ZZ06005		<20	0.07	<10	<10	78	<10	56
ZZ06006		<20	0.06	<10	<10	163	<10	40
ZZ06007		<20	0.08	<10	<10	80	<10	41
ZZ06008		<20	0.05	<10	<10	60	<10	38
ZZ06009		<20	0.07	<10	<10	95	<10	38
ZZ06310		<20	0.07	<10	<10	46	<10	62
ZZ06311		<20	0.07	<10	<10	44	<10	70
ZZ06312		<20	0.03	<10	<10	34	<10	61
ZZ06313		<20	0.03	<10	<10	26	<10	30
ZZ06314		<20	0.07	<10	<10	42	<10	63
ZZ06315		<20	0.04	<10	<10	33	<10	37
ZZ06316		<20	0.07	<10	<10	56	<10	50
ZZ06317		<20	0.05	<10	<10	36	<10	44
ZZ06318		<20	0.07	<10	<10	45	<10	61
ZZ06319		<20	0.09	<10	<10	54	<10	71
ZZ06320		<20	0.05	<10	<10	44	<10	47



Page: 4 - A
Total # Pages: 4 (A - C)
Finalized Date: 15- OCT- 2011
Account: F

CERTIFICATE OF ANALYSIS WH11171438

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ06321		0.30	0.001	0.3	1.83	5	<10	50	0.5	<2	0.04	<0.5	5	38	11	2.16
ZZ06322		0.34	0.004	0.2	2.50	14	<10	70	0.7	<2	0.04	<0.5	7	54	17	2.79
ZZ06323		0.32	0.004	<0.2	2.33	15	<10	90	<0.5	<2	0.10	<0.5	11	133	28	2.10
ZZ06324		0.38	0.004	<0.2	2.47	21	<10	90	<0.5	<2	0.09	<0.5	16	161	36	2.07
ZZ06325		0.24	0.001	<0.2	2.72	16	<10	70	<0.5	<2	0.07	<0.5	10	156	30	2.20
ZZ06326		0.44	0.002	<0.2	1.93	9	<10	70	<0.5	<2	0.08	<0.5	10	148	42	2.01
ZZ06327		0.30	0.005	0.2	2.39	21	<10	100	<0.5	<2	0.17	<0.5	13	180	79	2.33
ZZ06328		0.32	0.003	<0.2	3.10	33	<10	80	<0.5	<2	0.14	<0.5	16	286	71	2.95
ZZ06329		0.48	0.006	0.4	1.73	6	<10	40	<0.5	<2	0.05	<0.5	9	204	24	2.22
ZZ06330		0.30	0.002	0.2	3.55	12	<10	50	<0.5	<2	0.06	<0.5	8	200	33	2.54
ZZ06331		0.28	0.002	<0.2	2.34	9	<10	50	<0.5	<2	0.07	<0.5	10	187	32	2.08
ZZ06332		0.34	0.006	<0.2	2.68	15	<10	90	<0.5	2	0.11	<0.5	22	334	46	2.85
ZZ06333		0.34	0.005	<0.2	1.65	26	<10	60	<0.5	<2	0.07	<0.5	20	361	64	3.31
ZZ06334		0.30	0.002	<0.2	2.71	4	<10	190	<0.5	<2	0.20	<0.5	20	380	121	2.92
ZZ06335		0.40	0.003	<0.2	2.63	26	<10	70	<0.5	<2	0.10	<0.5	18	399	88	3.38
ZZ06336		0.34	0.004	0.3	2.49	63	<10	120	<0.5	<2	0.17	<0.5	19	294	112	2.84
ZZ06337		0.44	0.002	<0.2	2.56	14	<10	50	<0.5	<2	0.08	<0.5	15	287	52	3.33
ZZ06338		0.32	0.002	<0.2	1.91	11	<10	50	<0.5	<2	0.10	<0.5	15	297	35	3.14
ZZ06339		0.46	0.003	<0.2	1.88	22	<10	60	<0.5	2	0.07	<0.5	14	210	49	2.70
ZZ06340		0.32	0.003	<0.2	2.25	16	<10	40	<0.5	<2	0.09	<0.5	13	188	39	2.47
ZZ06341		0.22	0.003	<0.2	0.93	11	<10	80	<0.5	<2	0.14	<0.5	18	270	25	2.63
ZZ06342		0.36	0.002	<0.2	1.32	49	<10	90	<0.5	<2	0.14	<0.5	31	444	22	3.60
ZZ06343		0.26	0.003	<0.2	0.82	35	<10	70	<0.5	<2	0.07	<0.5	38	493	19	3.52
ZZ06344		0.16	0.002	<0.2	0.62	10	<10	60	<0.5	<2	0.04	<0.5	25	585	7	3.39
ZZ06345		0.30	0.055	<0.2	0.83	18	<10	60	<0.5	<2	0.05	<0.5	45	843	11	5.01
ZZ06346		0.30	0.003	<0.2	0.72	9	<10	80	<0.5	<2	0.13	<0.5	11	388	9	1.96
ZZ06347		0.34	0.016	<0.2	0.65	9	<10	40	<0.5	<2	0.04	<0.5	39	847	8	4.89
ZZ06348		0.40	0.004	<0.2	1.09	9	<10	120	<0.5	<2	0.09	<0.5	33	410	15	3.31
ZZ06349		0.32	0.006	<0.2	0.89	10	<10	60	<0.5	<2	0.07	<0.5	29	432	11	2.90
ZZ06350		0.20	0.001	<0.2	0.81	4	<10	90	<0.5	<2	0.06	<0.5	19	232	7	1.96



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Total # Pages: 4 (A - C)
Finalized Date: 15- OCT- 2011
Account: F

CERTIFICATE OF ANALYSIS WH11171438

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ06321		10	<1	0.09	10	0.43	124	1	0.01	23	390	11	0.01	<2	2	11
ZZ06322		10	<1	0.11	10	0.57	174	1	0.01	43	440	13	0.02	<2	3	12
ZZ06323		<10	<1	0.04	10	0.67	167	1	0.01	59	400	10	0.01	<2	3	10
ZZ06324		<10	<1	0.03	10	0.72	176	<1	0.02	73	290	8	0.01	<2	3	9
ZZ06325		<10	<1	0.03	10	0.63	131	<1	0.01	67	380	8	0.01	<2	2	8
ZZ06326		<10	<1	0.03	10	0.74	133	<1	0.01	74	220	8	<0.01	<2	2	8
ZZ06327		<10	<1	0.05	10	1.02	157	<1	0.01	87	250	10	0.01	<2	3	9
ZZ06328		10	<1	0.04	10	1.30	198	1	0.01	142	350	23	0.02	<2	5	9
ZZ06329		<10	<1	0.03	10	0.63	135	<1	0.01	75	240	9	0.01	<2	2	6
ZZ06330		<10	<1	0.02	10	0.60	124	1	0.01	71	470	7	0.02	<2	3	7
ZZ06331		10	<1	0.03	10	0.86	120	<1	0.02	73	200	5	0.01	<2	2	8
ZZ06332		<10	<1	0.04	10	1.54	193	<1	0.02	189	170	6	<0.01	<2	3	7
ZZ06333		<10	<1	0.03	10	1.62	232	1	0.01	271	170	6	0.01	<2	3	7
ZZ06334		<10	<1	0.14	<10	2.08	254	<1	0.02	146	80	4	<0.01	<2	4	12
ZZ06335		10	<1	0.04	<10	1.95	196	<1	0.02	130	120	4	<0.01	<2	4	7
ZZ06336		<10	<1	0.06	10	1.42	219	1	0.02	140	200	4	0.01	<2	5	9
ZZ06337		10	<1	0.03	10	1.43	197	<1	0.01	103	170	6	0.01	<2	3	7
ZZ06338		10	<1	0.04	10	1.29	185	<1	0.01	125	140	5	0.01	<2	3	7
ZZ06339		10	<1	0.04	10	1.13	167	<1	0.02	108	130	6	0.02	<2	3	8
ZZ06340		<10	<1	0.02	10	0.77	192	<1	0.01	94	420	7	0.01	<2	3	8
ZZ06341		<10	<1	0.03	10	1.24	244	<1	0.01	157	260	9	0.01	<2	2	7
ZZ06342		<10	<1	0.04	10	2.57	355	<1	0.02	445	470	15	0.01	<2	4	9
ZZ06343		<10	<1	0.03	10	2.91	436	<1	0.01	531	230	20	<0.01	<2	3	8
ZZ06344		<10	<1	0.03	10	2.05	320	<1	0.01	373	170	3	<0.01	<2	2	5
ZZ06345		<10	<1	0.03	10	3.49	499	<1	<0.01	630	270	7	0.01	<2	3	6
ZZ06346		<10	<1	0.02	10	1.09	127	<1	0.01	238	250	6	0.01	<2	2	9
ZZ06347		<10	<1	0.02	10	3.05	413	<1	<0.01	589	250	5	0.01	<2	2	4
ZZ06348		<10	<1	0.04	10	1.82	418	<1	<0.01	472	110	7	0.01	<2	3	9
ZZ06349		<10	<1	0.02	10	1.91	331	<1	<0.01	456	150	5	<0.01	<2	2	8
ZZ06350		<10	<1	0.03	10	0.96	229	<1	0.01	268	270	4	0.01	<2	2	10



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Page: 4 - C
 Total # Pages: 4 (A - C)
 Finalized Date: 15- OCT- 2011
 Account: F

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CERTIFICATE OF ANALYSIS WH11171438

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ06321		<20	0.06	<10	<10	35	<10	39
ZZ06322		<20	0.06	<10	<10	45	<10	52
ZZ06323		<20	0.06	<10	<10	41	<10	43
ZZ06324		<20	0.06	<10	<10	42	<10	44
ZZ06325		<20	0.05	<10	<10	40	<10	43
ZZ06326		<20	0.05	<10	<10	44	<10	35
ZZ06327		<20	0.07	<10	<10	59	<10	36
ZZ06328		<20	0.06	<10	<10	62	<10	54
ZZ06329		<20	0.05	<10	<10	41	<10	34
ZZ06330		<20	0.05	<10	<10	39	<10	34
ZZ06331		<20	0.06	<10	<10	47	<10	33
ZZ06332		<20	0.07	<10	<10	59	<10	35
ZZ06333		<20	0.06	<10	<10	58	<10	40
ZZ06334		<20	0.12	<10	<10	85	<10	36
ZZ06335		<20	0.10	<10	<10	101	<10	37
ZZ06336		<20	0.08	<10	<10	86	<10	35
ZZ06337		<20	0.10	<10	<10	77	<10	35
ZZ06338		<20	0.09	<10	<10	73	<10	33
ZZ06339		<20	0.08	<10	<10	67	<10	34
ZZ06340		<20	0.06	<10	<10	51	<10	34
ZZ06341		<20	0.06	<10	<10	61	<10	34
ZZ06342		<20	0.05	<10	<10	46	<10	80
ZZ06343		<20	0.04	<10	<10	37	<10	46
ZZ06344		<20	0.03	<10	<10	37	<10	47
ZZ06345		<20	0.03	<10	<10	48	<10	59
ZZ06346		<20	0.04	<10	<10	28	<10	32
ZZ06347		<20	0.04	<10	<10	57	<10	46
ZZ06348		<20	0.05	<10	<10	36	<10	45
ZZ06349		<20	0.04	<10	<10	31	<10	36
ZZ06350		<20	0.03	<10	<10	23	10	30



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Page: 1
Finalized Date: 5- AUG- 2011
Account: F

CERTIFICATE WH11123806

Project: Wolverine- Has/Vivi

P.O. No.:

This report is for 153 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 5 (A - C)
Finalized Date: 5- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC145871		0.28	<0.001	<0.2	1.83	5	<10	130	<0.5	<2	0.16	<0.5	19	295	163	3.10
CC145872		0.35	<0.001	<0.2	2.86	<2	<10	30	<0.5	<2	0.08	<0.5	24	417	107	3.21
CC145873		0.36	<0.001	<0.2	2.18	7	<10	70	<0.5	<2	0.08	<0.5	11	128	35	2.44
CC145874		0.28	<0.001	<0.2	1.42	3	<10	80	<0.5	<2	0.12	<0.5	19	269	39	2.54
CC145875		0.28	<0.001	<0.2	2.02	2	<10	50	<0.5	<2	0.08	<0.5	25	369	59	3.09
CC145876		0.39	0.001	<0.2	2.30	3	<10	40	<0.5	<2	0.04	<0.5	16	257	60	3.13
CC145877		0.32	<0.001	<0.2	3.23	<2	<10	30	<0.5	<2	0.05	<0.5	25	357	87	3.86
CC145878		0.27	<0.001	<0.2	1.84	<2	<10	20	<0.5	<2	0.06	<0.5	15	297	133	2.13
CC145879		0.25	<0.001	<0.2	2.53	2	<10	20	<0.5	<2	0.04	<0.5	17	368	113	2.71
CC145880		0.27	<0.001	<0.2	2.40	2	<10	30	<0.5	<2	0.05	<0.5	16	360	69	2.76
CC145881		0.29	0.013	<0.2	3.57	2	<10	20	<0.5	<2	0.03	<0.5	24	402	345	4.48
CC145882		0.33	0.001	<0.2	3.52	3	<10	20	<0.5	<2	0.04	<0.5	27	425	477	4.11
CC145883		0.51	0.008	<0.2	2.22	<2	<10	40	<0.5	<2	0.07	<0.5	19	314	287	2.74
CC145884		0.42	0.003	<0.2	2.23	2	<10	50	<0.5	<2	0.06	<0.5	12	198	55	2.36
CC145885		0.46	0.017	<0.2	1.69	26	<10	100	0.5	<2	0.06	<0.5	29	241	19	3.41
CC145886		0.40	0.027	<0.2	0.81	42	<10	80	<0.5	<2	0.06	<0.5	48	323	18	4.87
CC145887		0.36	0.013	<0.2	1.34	108	<10	110	0.5	<2	0.08	<0.5	43	164	22	4.26
CC145888		0.25	0.011	<0.2	2.37	27	<10	170	1.0	<2	0.05	<0.5	17	101	34	3.76
CC145889		0.25	0.001	<0.2	1.89	6	<10	100	0.6	<2	0.05	<0.5	9	54	17	2.52
CC145890		0.49	0.001	<0.2	2.43	11	<10	170	0.8	<2	0.10	<0.5	12	91	30	3.32
CC145891		0.44	0.002	<0.2	3.21	12	<10	150	1.3	<2	0.06	<0.5	18	110	39	4.20
CC145892		0.31	0.011	<0.2	2.63	26	<10	130	1.2	<2	0.06	<0.5	15	164	30	4.27
CC145893		0.23	0.001	<0.2	3.02	10	<10	150	1.6	<2	0.05	<0.5	20	69	35	5.03
CC145894		0.52	0.068	<0.2	1.32	89	<10	50	<0.5	<2	0.02	<0.5	10	125	19	4.11
CC145895		0.44	0.008	<0.2	1.57	181	<10	80	0.6	<2	0.06	<0.5	54	433	31	6.44
CC145896		0.39	0.020	<0.2	2.31	366	<10	60	<0.5	<2	0.05	<0.5	34	272	23	4.42
CC145897		0.20	0.004	<0.2	3.68	27	<10	230	2.3	<2	0.12	<0.5	19	88	44	4.70
CC145898		0.26	0.012	<0.2	2.05	11	<10	100	0.7	<2	0.10	<0.5	8	123	27	3.11
CC145899		0.22	0.001	<0.2	1.24	9	<10	60	<0.5	<2	0.05	<0.5	10	240	17	2.59
CC145900		0.25	<0.001	<0.2	4.86	6	<10	180	0.9	<2	0.28	<0.5	55	440	181	6.42
CC145907		0.36	0.026	<0.2	1.66	46	<10	170	1.3	<2	0.13	<0.5	22	139	48	3.65
CC145908		0.39	0.111	<0.2	1.92	24	<10	150	0.8	<2	0.18	<0.5	28	188	43	3.66
CC145909		0.47	0.011	<0.2	1.92	24	<10	160	0.8	<2	0.21	<0.5	25	213	40	3.90
CC145910		0.33	0.002	<0.2	2.28	21	<10	150	1.1	<2	0.11	<0.5	16	132	38	3.68
CC145911		0.34	0.006	0.2	2.12	65	<10	210	1.8	<2	0.54	<0.5	31	199	48	4.61
CC145912		0.29	0.003	<0.2	1.89	27	<10	120	1.3	<2	0.13	<0.5	15	164	34	3.17
CC145913		0.22	0.040	0.2	1.64	19	<10	120	0.7	<2	0.13	0.5	53	233	27	4.95
CC145914		0.19	0.017	<0.2	1.03	10	<10	130	<0.5	<2	0.14	0.5	68	314	18	4.50
CC145915		0.29	0.013	<0.2	1.27	17	<10	120	<0.5	<2	0.08	<0.5	67	564	15	4.78
CC145916		0.25	0.003	<0.2	0.98	29	<10	120	<0.5	<2	0.07	<0.5	95	492	16	6.63



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Page: 2 - B
Total # Pages: 5 (A - C)
Finalized Date: 5- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC145871		10	1	0.03	10	1.36	356	1	<0.01	203	410	7	0.03	<2	4	10
CC145872		<10	1	0.01	<10	3.08	328	<1	<0.01	128	100	<2	0.01	<2	4	5
CC145873		<10	1	0.04	10	0.92	209	1	<0.01	70	300	6	0.02	<2	3	7
CC145874		<10	1	0.03	10	1.97	273	<1	<0.01	275	180	2	0.01	<2	4	8
CC145875		<10	1	0.01	10	2.69	337	<1	<0.01	285	100	2	0.02	<2	5	6
CC145876		<10	<1	0.04	10	1.85	218	1	<0.01	102	140	4	0.01	<2	3	4
CC145877		10	1	0.01	<10	3.28	338	<1	<0.01	122	90	2	0.01	<2	5	4
CC145878		<10	1	0.01	<10	2.03	215	<1	<0.01	105	50	<2	0.01	<2	2	3
CC145879		10	<1	0.01	<10	2.64	239	<1	<0.01	114	70	2	0.02	<2	4	3
CC145880		10	1	0.01	<10	2.50	235	1	<0.01	108	230	2	0.02	<2	3	4
CC145881		10	1	0.01	<10	3.31	324	<1	<0.01	130	150	2	0.02	2	6	2
CC145882		10	<1	0.01	<10	3.61	359	<1	<0.01	156	120	<2	0.02	<2	5	2
CC145883		<10	1	0.02	<10	2.25	279	<1	<0.01	117	120	<2	0.02	<2	3	5
CC145884		<10	<1	0.02	10	1.31	182	1	<0.01	91	290	5	0.02	<2	3	5
CC145885		<10	1	0.04	10	0.91	490	1	<0.01	276	290	9	0.02	<2	4	8
CC145886		<10	<1	0.03	10	3.49	1090	1	<0.01	555	270	4	0.02	2	7	7
CC145887		<10	<1	0.04	20	1.42	830	1	0.01	570	280	9	0.03	<2	5	10
CC145888		10	1	0.29	30	0.95	413	1	0.01	124	290	10	0.04	<2	5	14
CC145889		10	<1	0.19	20	0.61	206	1	<0.01	46	270	8	0.01	<2	3	11
CC145890		10	<1	0.21	20	0.98	278	1	<0.01	98	280	9	0.02	2	5	14
CC145891		10	1	0.28	20	1.17	348	2	0.01	104	440	11	0.04	<2	6	12
CC145892		10	1	0.17	20	1.14	327	2	<0.01	136	490	11	0.05	<2	5	15
CC145893		10	1	0.32	20	1.10	537	2	<0.01	74	340	17	0.02	3	6	11
CC145894		<10	1	0.04	20	0.36	308	2	<0.01	83	620	14	0.02	2	2	9
CC145895		<10	1	0.03	10	2.60	1515	<1	<0.01	815	290	4	0.02	17	16	7
CC145896		<10	1	0.02	10	2.27	622	1	<0.01	501	300	4	0.02	14	10	7
CC145897		10	1	0.39	20	1.15	581	2	0.01	123	690	16	0.06	4	7	20
CC145898		10	<1	0.07	20	0.80	211	7	<0.01	86	460	12	0.05	2	2	19
CC145899		10	<1	0.04	10	1.06	357	14	<0.01	117	230	10	0.03	<2	3	6
CC145900		10	<1	0.02	10	1.03	11900	1	0.08	268	520	9	0.05	<2	9	14
CC145907		<10	<1	0.39	10	1.41	583	<1	0.01	206	430	16	0.04	2	7	11
CC145908		10	1	0.24	10	2.04	614	1	0.01	253	540	11	0.04	<2	6	13
CC145909		10	<1	0.28	10	2.03	562	<1	0.02	304	510	13	0.03	<2	8	14
CC145910		10	1	0.20	10	1.32	387	1	<0.01	141	360	16	0.03	2	6	12
CC145911		10	1	0.46	20	2.20	710	1	0.02	401	790	22	0.06	2	8	24
CC145912		10	1	0.24	10	1.38	347	1	0.01	128	520	17	0.04	<2	5	10
CC145913		<10	1	0.20	10	4.81	1030	1	<0.01	758	390	21	0.03	<2	12	13
CC145914		<10	<1	0.08	10	4.18	1780	1	<0.01	747	400	19	0.03	3	6	12
CC145915		<10	<1	0.04	10	5.41	1020	1	<0.01	898	210	13	0.01	<2	11	10
CC145916		<10	1	0.03	10	5.15	1515	<1	<0.01	834	450	14	0.02	2	11	10



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Page: 2 - C
Total # Pages: 5 (A - C)
Finalized Date: 5- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC145871		<20	0.04	<10	<10	66	<10
CC145872		<20	0.03	<10	<10	64	<10
CC145873		<20	0.05	<10	<10	43	<10
CC145874		<20	0.04	<10	<10	42	<10
CC145875		<20	0.03	<10	<10	54	<10
CC145876		<20	0.05	<10	<10	53	<10
CC145877		<20	0.03	<10	<10	71	<10
CC145878		<20	0.03	<10	<10	41	<10
CC145879		<20	0.03	<10	<10	64	<10
CC145880		<20	0.03	<10	<10	58	<10
CC145881		<20	0.04	<10	<10	83	<10
CC145882		<20	0.04	<10	<10	77	<10
CC145883		<20	0.04	<10	<10	55	<10
CC145884		<20	0.04	<10	<10	47	<10
CC145885		<20	0.03	<10	<10	41	<10
CC145886		<20	0.02	<10	<10	26	<10
CC145887		<20	0.04	<10	<10	35	<10
CC145888		<20	0.10	<10	<10	53	<10
CC145889		<20	0.06	<10	<10	39	<10
CC145890		<20	0.08	<10	<10	51	<10
CC145891		<20	0.10	<10	<10	63	<10
CC145892		<20	0.06	<10	<10	53	<10
CC145893		<20	0.08	<10	<10	62	<10
CC145894		<20	0.01	<10	<10	45	<10
CC145895		<20	0.01	<10	<10	90	<10
CC145896		<20	0.02	<10	<10	132	<10
CC145897		<20	0.09	<10	<10	74	<10
CC145898		<20	0.03	<10	<10	62	<10
CC145899		<20	0.07	<10	<10	96	<10
CC145900		<20	0.13	<10	<10	96	<10
CC145907		<20	0.13	<10	<10	65	10
CC145908		<20	0.14	<10	<10	74	<10
CC145909		<20	0.15	<10	<10	74	<10
CC145910		<20	0.13	<10	<10	78	<10
CC145911		<20	0.15	<10	<10	86	10
CC145912		<20	0.16	<10	<10	78	<10
CC145913		<20	0.11	<10	<10	56	<10
CC145914		<20	0.05	<10	<10	37	<10
CC145915		<20	0.05	<10	<10	45	<10
CC145916		<20	0.04	<10	<10	38	<10



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Page: 3 - A
Total # Pages: 5 (A - C)
Finalized Date: 5- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC145917		0.26	0.020	<0.2	1.34	40	10	120	<0.5	<2	0.06	<0.5	68	296	13	6.13
CC145918		0.37	0.002	<0.2	1.73	20	<10	140	0.6	<2	0.07	<0.5	32	139	20	3.80
CC145919		0.28	0.022	0.2	1.50	36	10	130	0.6	<2	0.07	<0.5	64	234	33	5.67
CC145920		0.30	0.079	<0.2	2.61	32	<10	190	1.1	<2	0.17	<0.5	21	219	28	4.56
CC145921		0.32	0.056	<0.2	1.58	69	10	180	<0.5	<2	0.05	0.5	97	428	17	7.59
CC145922		0.29	0.166	<0.2	1.06	73	<10	90	0.5	<2	0.08	<0.5	53	358	18	5.00
CC145923		0.26	0.175	<0.2	1.50	42	<10	90	0.9	<2	0.05	<0.5	51	441	23	5.11
CC145924		0.42	0.011	<0.2	3.26	48	<10	120	1.7	<2	0.09	<0.5	38	310	46	5.26
CC145925		0.23	0.175	0.2	0.72	48	<10	90	<0.5	<2	0.06	<0.5	55	461	15	5.04
CC145926		0.26	0.021	<0.2	1.82	43	<10	130	1.3	<2	0.10	<0.5	53	375	26	6.90
CC145927		0.41	0.083	<0.2	1.20	6	<10	90	<0.5	<2	0.06	<0.5	17	332	6	3.75
CC145928		0.21	0.001	<0.2	1.59	31	<10	80	<0.5	<2	0.04	<0.5	6	93	28	4.07
CC145929		0.41	0.040	<0.2	1.12	19	<10	70	<0.5	<2	0.05	<0.5	35	337	16	3.75
CC145930		0.46	0.072	<0.2	0.88	43	<10	90	0.7	<2	0.05	<0.5	62	470	27	6.40
CC145931		0.20	0.025	<0.2	2.03	55	<10	110	1.0	<2	0.08	<0.5	64	477	33	7.37
CC145932		0.38	0.038	<0.2	1.04	131	<10	110	0.9	<2	0.05	<0.5	66	497	20	6.37
CC145933		0.18	0.047	<0.2	0.81	91	<10	50	0.8	<2	0.04	<0.5	56	479	9	5.17
CC145934		0.24	0.039	<0.2	2.00	158	<10	120	1.2	<2	0.04	<0.5	165	580	18	16.3
CC145935		0.23	0.038	<0.2	0.89	34	<10	90	0.5	2	0.10	<0.5	80	374	19	7.27
CC145936		0.28	0.019	<0.2	1.40	20	<10	100	0.5	<2	0.07	<0.5	51	421	16	6.57
CC145937		0.30	0.158	<0.2	1.60	21	<10	110	0.6	<2	0.06	0.5	68	454	15	8.15
CC145938		0.44	0.586	<0.2	0.90	20	<10	60	<0.5	<2	0.05	<0.5	53	446	18	4.73
CC145939		0.37	0.151	<0.2	0.83	18	<10	90	<0.5	3	0.09	0.7	104	696	20	9.63
CC145940		0.42	0.036	0.7	0.85	11	<10	90	<0.5	<2	0.06	<0.5	56	464	14	5.09
CC145941		0.42	0.019	<0.2	0.80	11	<10	90	<0.5	<2	0.06	<0.5	66	538	14	5.59
CC145942		0.37	0.096	<0.2	0.75	17	<10	90	<0.5	<2	0.05	<0.5	66	706	22	6.27
CC145943		0.24	0.063	<0.2	0.96	10	<10	90	<0.5	<2	0.10	<0.5	50	474	27	5.45
CC145944		0.32	0.029	0.3	0.66	8	<10	70	<0.5	<2	0.08	<0.5	44	550	41	5.13
CC145945		0.33	0.050	<0.2	0.84	13	<10	60	<0.5	<2	0.09	<0.5	42	406	26	4.15
CC145946		0.30	0.041	<0.2	0.52	7	<10	60	<0.5	<2	0.07	<0.5	51	520	17	4.55
CC145947		0.30	<0.001	<0.2	0.94	8	<10	90	<0.5	<2	0.06	<0.5	52	559	29	4.78
CC145948		0.44	0.012	<0.2	1.10	9	<10	90	<0.5	2	0.07	<0.5	45	473	20	5.00
CC145949		0.45	0.024	<0.2	1.19	7	<10	80	<0.5	<2	0.12	<0.5	22	360	20	3.81
CC145950		0.38	0.010	<0.2	1.46	6	<10	130	0.5	<2	0.09	<0.5	17	340	13	3.92
CC145981		0.22	0.069	<0.2	2.13	21	<10	170	0.7	<2	0.24	<0.5	37	212	62	4.28
CC145982		0.20	0.041	0.2	1.39	10	<10	120	0.6	<2	0.11	<0.5	65	164	29	4.92
CC145983		0.19	0.504	<0.2	0.82	16	<10	60	0.5	<2	0.15	<0.5	30	519	15	4.35
CC145984		0.22	0.027	<0.2	1.00	10	<10	100	<0.5	2	0.08	<0.5	64	226	9	4.28
CC145985		0.25	0.013	<0.2	2.58	19	<10	130	1.5	<2	0.05	<0.5	17	144	29	4.15
CC145986		0.41	0.011	0.2	1.32	41	<10	110	0.5	<2	0.09	<0.5	48	334	13	4.47



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Page: 3 - B
Total # Pages: 5 (A - C)
Finalized Date: 5- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

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CC145917		<10	<1	0.06	10	5.32	875	<1	<0.01	581	280	18	0.01	<2	7	8
CC145918		<10	<1	0.06	10	2.50	477	1	<0.01	311	180	14	0.01	<2	5	9
CC145919		<10	<1	0.08	10	5.91	901	<1	<0.01	732	330	13	0.02	<2	7	9
CC145920		10	<1	0.17	10	1.81	540	<1	<0.01	114	630	12	0.02	<2	7	12
CC145921		<10	1	0.03	10	6.78	2220	<1	<0.01	880	690	15	0.02	<2	6	15
CC145922		<10	<1	0.04	10	4.50	947	<1	<0.01	670	270	5	0.01	<2	7	8
CC145923		<10	<1	0.04	10	1.82	1125	<1	<0.01	383	230	9	0.01	<2	8	6
CC145924		10	1	0.13	10	1.75	586	<1	0.01	185	350	20	0.02	3	9	8
CC145925		<10	<1	0.03	10	1.96	1605	<1	<0.01	394	240	5	<0.01	<2	8	5
CC145926		<10	1	0.10	10	3.35	1685	<1	<0.01	280	530	12	0.02	<2	8	10
CC145927		<10	<1	0.03	10	0.45	529	<1	0.01	84	530	7	0.02	<2	3	11
CC145928		10	1	0.13	10	0.42	200	2	<0.01	48	550	10	0.03	<2	3	5
CC145929		<10	<1	0.03	10	0.84	733	1	<0.01	209	160	12	<0.01	<2	4	7
CC145930		<10	1	0.03	10	2.34	1650	<1	<0.01	515	310	15	0.01	2	10	5
CC145931		<10	1	0.08	10	2.24	1795	1	<0.01	407	440	37	0.01	<2	8	8
CC145932		<10	<1	0.03	10	2.62	1605	<1	<0.01	840	220	4	0.01	2	11	5
CC145933		<10	1	0.01	<10	1.43	1110	<1	<0.01	710	290	4	0.01	<2	8	3
CC145934		<10	1	0.03	<10	2.03	3530	1	<0.01	738	530	19	0.02	5	12	7
CC145935		<10	<1	0.04	10	6.65	2190	<1	0.01	618	330	4	0.02	2	11	6
CC145936		<10	1	0.03	10	2.72	1325	1	0.01	328	550	7	0.02	<2	7	6
CC145937		<10	1	0.03	10	1.89	1795	1	0.01	356	750	11	0.02	2	7	8
CC145938		<10	<1	0.03	10	1.38	1050	<1	0.01	511	180	5	0.01	<2	9	4
CC145939		<10	<1	0.02	<10	5.59	2640	1	0.01	578	680	7	0.02	<2	11	5
CC145940		<10	1	0.03	10	2.73	1785	<1	<0.01	450	280	5	<0.01	<2	10	6
CC145941		<10	<1	0.02	10	3.93	2240	1	<0.01	490	380	4	<0.01	<2	10	5
CC145942		<10	1	0.03	10	2.66	2100	<1	<0.01	660	280	3	0.01	<2	13	4
CC145943		<10	<1	0.03	10	3.27	1295	<1	<0.01	442	290	4	0.01	<2	8	6
CC145944		<10	<1	0.02	10	3.22	1080	<1	<0.01	547	230	4	<0.01	<2	8	5
CC145945		<10	<1	0.04	10	2.25	1130	1	<0.01	449	240	5	<0.01	<2	7	6
CC145946		<10	<1	0.02	<10	3.44	1900	<1	<0.01	605	170	3	<0.01	<2	9	3
CC145947		<10	<1	0.03	10	1.88	997	1	0.01	677	270	5	0.01	<2	5	6
CC145948		<10	<1	0.03	10	1.71	900	1	<0.01	556	330	5	0.01	<2	6	8
CC145949		<10	<1	0.04	10	1.40	405	<1	0.02	356	470	10	<0.01	<2	5	10
CC145950		<10	<1	0.04	10	1.11	426	<1	0.01	230	840	9	<0.01	<2	5	10
CC145981		<10	<1	0.08	10	2.73	823	<1	0.02	439	690	9	0.01	<2	6	15
CC145982		<10	<1	0.09	10	5.31	1140	<1	0.02	876	500	13	0.02	<2	7	12
CC145983		<10	<1	0.06	10	4.13	462	<1	0.02	401	450	5	0.01	<2	5	7
CC145984		<10	<1	0.04	<10	2.67	1210	<1	0.02	594	940	9	0.02	<2	4	11
CC145985		10	<1	0.18	10	0.85	271	<1	0.02	99	280	17	<0.01	<2	6	8
CC145986		<10	<1	0.03	10	3.58	713	<1	0.02	513	340	9	<0.01	<2	6	9



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Page: 3 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 5- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC145917		<20	0.09	<10	<10	55	<10	48
CC145918		<20	0.10	<10	<10	61	<10	56
CC145919		<20	0.07	<10	<10	46	<10	66
CC145920		<20	0.21	<10	<10	108	<10	143
CC145921		<20	0.04	<10	<10	46	<10	99
CC145922		<20	0.04	<10	<10	34	<10	44
CC145923		<20	0.05	<10	<10	42	<10	40
CC145924		<20	0.19	<10	<10	115	<10	97
CC145925		<20	0.02	<10	<10	28	<10	30
CC145926		<20	0.09	<10	<10	71	<10	73
CC145927		<20	0.05	<10	<10	43	<10	41
CC145928		<20	0.18	<10	<10	116	<10	55
CC145929		<20	0.05	<10	<10	41	<10	77
CC145930		<20	0.03	<10	<10	30	<10	32
CC145931		<20	0.09	<10	<10	63	<10	89
CC145932		<20	0.03	<10	<10	32	<10	40
CC145933		<20	0.03	<10	<10	29	<10	46
CC145934		<20	0.05	<10	<10	54	<10	82
CC145935		<20	0.04	<10	<10	37	<10	41
CC145936		<20	0.05	<10	<10	54	<10	74
CC145937		<20	0.05	<10	<10	49	<10	104
CC145938		<20	0.04	<10	<10	35	<10	34
CC145939		<20	0.02	<10	<10	40	<10	127
CC145940		<20	0.03	<10	<10	31	<10	41
CC145941		<20	0.02	<10	<10	28	<10	34
CC145942		<20	0.03	<10	<10	38	<10	33
CC145943		<20	0.04	<10	<10	41	<10	38
CC145944		<20	0.02	<10	<10	36	<10	32
CC145945		<20	0.04	<10	<10	34	<10	39
CC145946		<20	0.02	<10	<10	26	<10	19
CC145947		<20	0.03	<10	<10	38	<10	36
CC145948		<20	0.04	<10	<10	44	<10	50
CC145949		<20	0.05	<10	<10	42	<10	55
CC145950		<20	0.04	<10	<10	44	<10	53
CC145981		<20	0.05	<10	<10	51	<10	82
CC145982		<20	0.07	<10	<10	43	<10	53
CC145983		<20	0.04	<10	<10	41	<10	56
CC145984		<20	0.03	<10	<10	25	<10	44
CC145985		<20	0.15	<10	<10	75	<10	70
CC145986		<20	0.05	<10	<10	46	<10	54



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Page: 4 - A
Total # Pages: 5 (A - C)
Finalized Date: 5- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC145987		0.50	0.042	<0.2	1.70	21	<10	130	0.7	<2	0.09	<0.5	38	214	24	4.82
CC145988		0.31	0.029	<0.2	1.50	30	<10	100	<0.5	<2	0.06	<0.5	43	253	18	5.14
CC145989		0.35	0.045	<0.2	1.04	25	<10	110	<0.5	<2	0.12	<0.5	40	208	17	3.69
CC145990		0.28	0.181	<0.2	1.96	50	<10	160	1.3	2	0.09	<0.5	25	226	22	4.68
CC145992		0.34	0.001	<0.2	1.17	2	<10	60	<0.5	2	0.10	<0.5	38	344	85	3.44
CC145993		0.29	0.001	0.2	0.99	<2	<10	80	<0.5	<2	0.04	<0.5	19	221	10	2.31
CC145994		0.29	0.009	0.2	0.88	11	<10	80	<0.5	<2	0.06	<0.5	7	98	12	1.90
CC145995		0.28	0.003	<0.2	1.06	2	<10	110	<0.5	<2	0.10	<0.5	37	185	16	3.56
CC145996		0.34	0.001	0.2	0.96	5	<10	100	<0.5	<2	0.11	<0.5	30	227	14	3.25
CC145997		0.30	0.003	<0.2	1.03	3	<10	80	<0.5	2	0.07	<0.5	50	422	11	4.82
CC145998		0.23	0.002	0.2	1.89	17	<10	130	0.6	<2	0.05	<0.5	25	183	19	4.21
CC145999		0.28	0.001	<0.2	1.46	5	<10	110	<0.5	<2	0.05	<0.5	30	326	12	4.44
CC146000		0.23	0.002	<0.2	2.09	7	<10	120	0.8	<2	0.07	<0.5	39	236	22	4.69
CC147001		0.50	0.172	<0.2	1.35	21	<10	110	0.6	<2	0.07	<0.5	33	290	23	3.90
CC147002		0.42	0.015	0.2	1.24	20	<10	100	0.5	<2	0.15	<0.5	33	384	34	3.77
CC147003		0.38	0.056	0.2	1.12	27	<10	60	<0.5	<2	0.05	<0.5	40	527	24	5.19
CC147004		0.28	0.028	<0.2	1.36	36	<10	60	<0.5	<2	0.03	<0.5	34	527	17	6.89
CC147005		0.30	1.100	0.4	1.57	52	<10	120	0.7	<2	0.06	0.6	76	551	381	7.95
CC147006		0.59	0.115	<0.2	1.58	24	<10	110	0.6	2	0.12	<0.5	26	521	26	5.27
CC147007		0.46	0.094	0.3	1.65	13	<10	90	0.5	<2	0.06	<0.5	30	374	14	4.30
CC147008		0.41	0.022	<0.2	1.18	44	<10	110	0.5	2	0.09	<0.5	47	504	17	5.54
CC147009		0.37	0.003	<0.2	1.22	4	<10	140	<0.5	2	0.09	<0.5	15	300	8	2.77
CC147010		0.32	0.004	<0.2	0.90	7	<10	110	<0.5	2	0.08	<0.5	26	625	8	3.61
CC147011		0.31	0.001	0.2	1.10	6	<10	120	<0.5	<2	0.07	<0.5	26	408	9	3.19
CC147012		0.39	0.006	<0.2	1.22	3	<10	100	<0.5	<2	0.07	<0.5	16	345	8	2.40
CC147013		0.24	0.002	<0.2	0.96	3	<10	90	<0.5	2	0.08	<0.5	17	315	8	2.53
CC147014		0.28	0.001	<0.2	0.92	3	<10	90	<0.5	<2	0.10	<0.5	19	265	6	2.20
CC147015		0.29	0.019	0.2	1.24	7	<10	90	<0.5	<2	0.07	<0.5	21	324	12	3.31
CC147016		0.48	0.012	<0.2	0.93	9	<10	90	<0.5	<2	0.07	<0.5	53	870	15	4.66
CC147017		0.32	0.004	<0.2	0.69	14	<10	70	<0.5	<2	0.11	<0.5	53	1125	13	5.29
CC147018		0.23	0.050	<0.2	1.72	14	<10	70	0.6	<2	0.09	<0.5	33	290	27	3.86
CC147019		0.24	0.027	<0.2	1.97	9	<10	40	<0.5	<2	0.06	<0.5	19	251	39	3.05
CC147020		0.31	0.014	<0.2	1.55	10	<10	110	<0.5	<2	0.09	<0.5	22	274	35	3.37
CC147021		0.31	0.008	<0.2	1.85	9	<10	90	0.5	<2	0.09	<0.5	34	329	48	3.78
CC147022		0.29	0.002	<0.2	1.17	7	<10	90	<0.5	<2	0.08	<0.5	27	305	22	3.31
CC147023		0.39	0.009	<0.2	1.53	8	<10	100	<0.5	<2	0.09	<0.5	22	219	32	3.18
CC147024		0.50	0.013	<0.2	1.69	4	<10	80	<0.5	<2	0.09	<0.5	15	145	33	2.78
CC147025		0.26	0.002	<0.2	1.76	2	<10	80	<0.5	<2	0.08	<0.5	14	152	30	2.32
CC147026		0.25	0.006	<0.2	1.86	<2	<10	70	<0.5	<2	0.09	<0.5	12	132	37	2.30
CC147027		0.33	0.007	0.2	2.35	6	<10	50	<0.5	<2	0.07	<0.5	8	96	24	2.43



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Page: 4 - B
Total # Pages: 5 (A - C)
Finalized Date: 5- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC145987		10	<1	0.11	10	2.43	682	<1	0.02	303	380	14	<0.01	<2	6	9
CC145988		10	<1	0.07	10	2.29	1025	<1	0.02	423	600	12	<0.01	<2	4	8
CC145989		<10	<1	0.07	10	4.19	603	<1	0.02	659	320	8	<0.01	<2	6	11
CC145990		10	<1	0.17	10	2.11	638	<1	0.02	185	490	13	<0.01	<2	5	10
CC145992		<10	<1	0.02	10	2.99	473	<1	0.02	398	170	6	<0.01	<2	4	6
CC145993		10	<1	0.02	10	1.47	259	<1	0.02	150	240	5	<0.01	<2	3	6
CC145994		10	<1	0.10	10	0.42	191	<1	0.02	46	240	10	<0.01	<2	3	6
CC145995		<10	<1	0.06	10	3.91	506	<1	0.02	633	250	8	<0.01	<2	8	10
CC145996		<10	<1	0.05	10	2.84	470	<1	0.02	478	170	9	<0.01	<2	6	11
CC145997		<10	<1	0.03	10	3.52	634	<1	0.02	397	250	8	<0.01	<2	5	8
CC145998		10	<1	0.22	10	1.79	434	<1	0.02	194	210	12	<0.01	<2	6	8
CC145999		10	<1	0.05	10	2.55	525	<1	0.02	250	430	11	<0.01	<2	4	8
CC146000		10	<1	0.08	10	2.83	468	<1	0.02	458	460	11	<0.01	<2	5	10
CC147001		<10	<1	0.04	10	0.90	617	<1	0.02	330	230	11	<0.01	<2	5	9
CC147002		<10	<1	0.12	10	1.72	659	<1	0.03	452	390	9	<0.01	<2	7	8
CC147003		<10	<1	0.03	<10	1.05	861	<1	0.02	385	530	5	<0.01	<2	6	5
CC147004		10	<1	0.02	10	0.50	938	<1	0.02	269	430	9	<0.01	<2	6	4
CC147005		<10	<1	0.03	10	2.20	1945	<1	0.02	752	510	8	<0.01	<2	10	7
CC147006		<10	1	0.04	10	1.24	661	<1	0.02	344	750	6	<0.01	<2	7	9
CC147007		<10	<1	0.03	10	0.79	616	<1	0.02	286	370	8	<0.01	<2	4	7
CC147008		<10	<1	0.04	10	1.96	1255	<1	0.01	383	1040	8	0.01	<2	6	9
CC147009		10	<1	0.04	10	0.98	396	<1	0.02	258	920	6	0.02	<2	1	9
CC147010		<10	<1	0.03	10	1.50	446	<1	0.02	369	530	6	<0.01	<2	2	7
CC147011		<10	<1	0.03	10	1.79	361	<1	0.02	389	380	6	<0.01	<2	2	9
CC147012		<10	<1	0.03	10	1.34	193	<1	0.02	287	280	6	<0.01	<2	3	8
CC147013		<10	<1	0.03	10	1.37	248	<1	0.02	296	200	6	<0.01	<2	2	8
CC147014		<10	<1	0.03	10	1.30	233	<1	0.02	315	350	7	<0.01	<2	2	9
CC147015		10	<1	0.03	10	1.24	315	<1	0.03	310	360	7	<0.01	<2	2	8
CC147016		<10	<1	0.02	10	3.96	594	<1	<0.01	838	710	6	0.01	<2	4	3
CC147017		<10	<1	0.02	<10	3.42	742	<1	0.01	778	570	7	0.03	2	4	4
CC147018		10	<1	0.04	10	1.00	714	<1	0.01	293	470	9	0.01	2	4	4
CC147019		10	<1	0.02	10	0.95	257	<1	<0.01	171	300	7	<0.01	<2	4	1
CC147020		<10	<1	0.03	10	1.03	414	<1	0.02	209	190	9	<0.01	<2	5	5
CC147021		10	<1	0.03	10	1.47	601	<1	0.02	340	260	9	0.01	<2	6	5
CC147022		<10	<1	0.03	10	0.93	649	<1	0.01	269	220	7	<0.01	<2	4	5
CC147023		10	<1	0.03	20	0.98	432	<1	0.01	193	230	8	<0.01	2	4	6
CC147024		10	<1	0.03	10	0.88	273	<1	<0.01	96	270	8	<0.01	<2	4	6
CC147025		10	1	0.03	10	0.82	241	<1	0.01	101	280	8	<0.01	<2	2	5
CC147026		10	1	0.02	10	0.97	208	<1	0.01	79	240	7	<0.01	<2	3	5
CC147027		10	<1	0.03	10	0.68	154	<1	0.01	53	510	7	0.02	<2	2	4



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Page: 4 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 5- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC145987		<20	0.11	<10	<10	68	<10	86
CC145988		<20	0.09	<10	<10	62	<10	103
CC145989		<20	0.06	<10	<10	35	<10	55
CC145990		<20	0.14	<10	<10	84	<10	96
CC145992		<20	0.03	<10	<10	45	<10	47
CC145993		<20	0.04	<10	<10	46	<10	33
CC145994		<20	0.10	<10	<10	52	<10	39
CC145995		<20	0.05	<10	<10	38	<10	47
CC145996		<20	0.05	<10	<10	40	<10	45
CC145997		<20	0.04	<10	<10	62	<10	47
CC145998		<20	0.15	<10	<10	72	<10	66
CC145999		<20	0.07	<10	<10	74	<10	83
CC146000		<20	0.07	<10	<10	59	<10	69
CC147001		<20	0.05	<10	<10	43	<10	61
CC147002		<20	0.08	<10	<10	52	<10	40
CC147003		<20	0.04	<10	<10	53	<10	77
CC147004		<20	0.07	<10	<10	67	<10	78
CC147005		<20	0.03	<10	<10	40	<10	49
CC147006		<20	0.05	<10	<10	51	<10	64
CC147007		<20	0.05	<10	<10	47	<10	49
CC147008		<20	0.03	<10	<10	44	<10	98
CC147009		<20	0.02	<10	<10	36	<10	39
CC147010		<20	0.03	<10	<10	45	<10	37
CC147011		<20	0.03	<10	<10	38	<10	49
CC147012		<20	0.04	<10	<10	37	<10	39
CC147013		<20	0.04	<10	<10	30	<10	45
CC147014		<20	0.04	<10	<10	27	<10	40
CC147015		<20	0.05	<10	<10	45	<10	45
CC147016		<20	0.03	<10	<10	41	<10	42
CC147017		<20	0.02	<10	<10	46	<10	62
CC147018		<20	0.04	<10	<10	49	<10	52
CC147019		<20	0.04	<10	<10	60	<10	35
CC147020		<20	0.05	<10	<10	55	<10	44
CC147021		<20	0.05	<10	<10	61	<10	46
CC147022		<20	0.04	<10	<10	42	<10	48
CC147023		<20	0.05	<10	<10	54	<10	53
CC147024		<20	0.04	<10	<10	59	<10	47
CC147025		<20	0.03	<10	<10	56	<10	35
CC147026		<20	0.04	<10	<10	59	<10	35
CC147027		<20	0.04	<10	<10	49	<10	44



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
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Page: 5 - A
Total # Pages: 5 (A - C)
Finalized Date: 5- AUG- 2011
Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC147028		0.23	0.009	0.2	1.69	3	<10	90	<0.5	<2	0.11	<0.5	13	119	36	2.44
CC147029		0.28	0.002	<0.2	1.85	5	<10	80	<0.5	<2	0.11	<0.5	16	167	52	2.91
CC147030		0.38	0.005	<0.2	1.67	12	<10	50	<0.5	<2	0.06	<0.5	16	201	53	2.34
CC147031		0.26	0.012	<0.2	2.42	19	<10	30	<0.5	<2	0.06	<0.5	17	227	54	2.71
CC147032		0.22	0.002	<0.2	1.54	8	<10	60	<0.5	<2	0.12	<0.5	14	185	64	2.33
CC147033		0.27	0.009	0.3	2.01	12	<10	60	<0.5	<2	0.08	<0.5	8	121	23	2.77
CC147034		0.30	0.006	<0.2	2.23	40	<10	30	<0.5	<2	0.05	<0.5	19	249	95	2.99
CC147035		0.41	0.002	<0.2	1.76	28	<10	30	<0.5	<2	0.06	<0.5	11	190	28	2.30
CC147036		0.14	0.001	<0.2	1.07	2	<10	20	<0.5	<2	0.03	<0.5	6	104	13	1.55
CC147037		0.27	0.285	<0.2	2.04	6	<10	50	<0.5	<2	0.06	<0.5	12	170	37	2.61
CC147038		0.45	0.007	<0.2	2.07	5	<10	60	<0.5	<2	0.07	<0.5	12	162	35	2.47
CC147039		0.28	0.005	<0.2	1.92	7	<10	60	<0.5	<2	0.07	<0.5	13	175	39	3.11
CC147040		0.33	0.001	0.2	1.48	<2	<10	80	<0.5	<2	0.10	<0.5	8	82	37	1.67
CC147041		0.17	0.011	<0.2	2.03	3	<10	110	<0.5	<2	0.11	<0.5	14	189	60	2.80
CC147042		0.21	0.001	<0.2	2.08	5	<10	50	<0.5	<2	0.06	<0.5	9	127	28	2.38
CC147043		0.26	0.013	<0.2	2.30	2	<10	100	<0.5	<2	0.08	0.5	51	195	61	3.79
CC147044		0.21	0.086	<0.2	1.35	<2	<10	40	<0.5	<2	0.05	<0.5	11	179	13	1.85
CC147045		0.38	0.002	<0.2	1.87	<2	<10	140	<0.5	<2	0.12	<0.5	18	181	67	2.14
CC147046		0.47	0.003	<0.2	1.49	<2	<10	60	<0.5	<2	0.12	<0.5	20	253	48	2.29
CC147047		0.31	0.001	<0.2	1.95	2	<10	70	<0.5	<2	0.07	<0.5	18	290	62	3.30
CC147048		0.40	0.002	<0.2	1.46	3	<10	40	<0.5	<2	0.10	<0.5	19	286	105	2.39
CC147049		0.31	0.002	<0.2	1.33	<2	<10	50	<0.5	<2	0.10	<0.5	12	167	286	1.88
CC147050		0.20	0.002	<0.2	1.78	<2	<10	50	<0.5	<2	0.06	<0.5	18	369	146	4.63
CC147051		0.24	0.003	<0.2	0.73	7	10	80	<0.5	<2	0.05	<0.5	57	751	15	4.11
CC147052		0.17	0.016	<0.2	0.75	12	10	90	<0.5	<2	0.06	<0.5	75	851	17	4.60
CC147053		0.20	0.008	<0.2	0.85	12	10	80	<0.5	<2	0.04	<0.5	92	868	16	5.24
CC147054		0.60	0.003	<0.2	1.70	8	<10	70	0.5	<2	0.12	<0.5	32	382	29	3.64
CC147055		0.29	0.054	<0.2	1.04	8	<10	80	<0.5	<2	0.06	<0.5	66	708	24	5.37
CC147056		0.35	0.002	<0.2	1.09	6	<10	100	<0.5	<2	0.08	<0.5	44	518	21	4.50
CC147057		0.16	0.002	<0.2	0.74	2	<10	140	<0.5	<2	0.07	<0.5	86	1145	11	6.42
CC147058		0.25	0.003	<0.2	2.72	27	<10	110	<0.5	<2	0.15	<0.5	30	293	54	4.41
CC147059		0.29	0.004	0.2	1.01	4	<10	50	<0.5	<2	0.06	<0.5	6	145	14	2.23
CC147060		0.29	0.002	<0.2	1.79	5	<10	130	0.8	<2	0.09	<0.5	13	101	23	3.52



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Page: 5 - B
 Total # Pages: 5 (A - C)
 Finalized Date: 5- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147028		10	<1	0.03	10	0.81	278	<1	0.01	88	390	7	<0.01	<2	3	7
CC147029		10	<1	0.03	10	1.19	332	<1	0.01	120	230	7	<0.01	<2	6	6
CC147030		<10	<1	0.02	10	1.02	281	<1	0.01	136	240	6	<0.01	<2	3	2
CC147031		10	<1	0.02	10	1.43	215	<1	0.01	159	300	6	<0.01	<2	4	2
CC147032		10	1	0.03	10	1.02	263	<1	0.01	110	390	7	<0.01	<2	4	4
CC147033		10	1	0.04	10	0.63	265	<1	<0.01	48	320	9	<0.01	<2	2	5
CC147034		10	<1	0.02	10	1.39	194	<1	<0.01	150	220	6	<0.01	<2	5	1
CC147035		10	<1	0.02	10	1.06	145	<1	0.01	116	300	6	<0.01	<2	4	2
CC147036		10	<1	0.02	10	0.48	90	<1	0.01	57	320	3	0.01	<2	1	1
CC147037		10	<1	0.03	10	0.92	182	<1	0.01	117	310	7	0.01	<2	4	3
CC147038		10	<1	0.03	10	0.83	173	<1	0.01	111	280	6	<0.01	<2	4	3
CC147039		10	<1	0.03	10	0.96	224	<1	0.01	118	250	7	0.01	2	3	4
CC147040		10	<1	0.03	<10	0.42	171	<1	0.03	122	700	3	0.04	<2	1	6
CC147041		10	<1	0.03	10	1.04	279	<1	0.01	153	460	5	0.02	<2	2	7
CC147042		10	<1	0.04	10	0.52	149	<1	0.01	73	400	15	0.01	<2	3	3
CC147043		10	1	0.03	10	1.44	1850	<1	<0.01	165	510	8	0.01	<2	2	5
CC147044		10	<1	0.01	10	0.79	109	<1	0.01	102	210	5	0.01	<2	2	2
CC147045		10	<1	0.03	10	1.10	371	<1	<0.01	293	440	6	<0.01	<2	3	6
CC147046		<10	<1	0.02	10	1.81	245	<1	<0.01	279	130	4	<0.01	<2	4	3
CC147047		10	<1	0.04	10	1.47	295	<1	<0.01	225	330	6	<0.01	<2	3	4
CC147048		<10	<1	0.01	<10	2.31	241	<1	0.01	289	130	2	<0.01	<2	5	2
CC147049		<10	<1	0.03	<10	1.10	194	<1	0.02	142	460	2	0.02	<2	3	5
CC147050		10	<1	0.02	<10	2.02	312	<1	<0.01	170	330	5	<0.01	<2	3	2
CC147051		<10	<1	0.02	10	3.60	885	<1	<0.01	858	330	6	0.01	<2	4	3
CC147052		<10	<1	0.03	10	5.40	999	<1	0.01	1090	340	8	0.01	<2	5	3
CC147053		<10	<1	0.03	10	6.79	1125	<1	0.01	1210	340	7	0.01	2	4	1
CC147054		10	<1	0.06	10	1.36	477	<1	0.02	411	380	7	0.01	<2	5	4
CC147055		<10	<1	0.04	10	3.36	1145	<1	0.01	885	240	8	<0.01	2	9	4
CC147056		<10	<1	0.04	10	1.82	1045	<1	0.02	534	260	9	0.01	<2	7	5
CC147057		<10	<1	0.02	<10	2.09	2520	<1	0.01	644	650	8	0.02	<2	5	2
CC147058		10	<1	0.24	10	1.73	473	<1	0.02	176	390	13	<0.01	<2	10	2
CC147059		10	<1	0.12	20	0.39	193	<1	0.01	70	370	10	0.01	<2	2	3
CC147060		10	1	0.24	10	0.57	509	<1	<0.01	88	450	16	<0.01	<2	6	7



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Page: 5 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 5- AUG- 2011
 Account: F

Project: Wolverine- Has/Vivi

CERTIFICATE OF ANALYSIS WH11123806

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147028		<20	0.05	<10	<10	49	<10	48
CC147029		<20	0.06	<10	<10	64	<10	49
CC147030		<20	0.04	<10	<10	51	<10	33
CC147031		<20	0.04	<10	<10	58	<10	41
CC147032		<20	0.04	<10	<10	50	<10	41
CC147033		<20	0.04	<10	<10	53	<10	53
CC147034		<20	0.04	<10	<10	74	<10	43
CC147035		<20	0.03	<10	<10	69	<10	26
CC147036		<20	0.02	<10	<10	59	<10	22
CC147037		<20	0.04	<10	<10	66	<10	39
CC147038		<20	0.03	<10	<10	54	<10	39
CC147039		<20	0.05	<10	<10	73	<10	53
CC147040		<20	0.02	<10	<10	31	<10	30
CC147041		<20	0.03	<10	<10	59	<10	50
CC147042		<20	0.05	<10	<10	48	<10	46
CC147043		<20	0.03	<10	<10	77	<10	51
CC147044		<20	0.03	<10	<10	46	<10	29
CC147045		<20	0.02	<10	<10	40	<10	39
CC147046		<20	0.03	<10	<10	47	<10	32
CC147047		<20	0.03	<10	<10	64	<10	60
CC147048		<20	0.03	<10	<10	47	<10	26
CC147049		<20	0.02	<10	<10	35	<10	26
CC147050		<20	0.04	<10	<10	104	<10	33
CC147051		<20	0.03	<10	<10	37	<10	38
CC147052		<20	0.03	<10	<10	35	<10	49
CC147053		<20	0.03	<10	<10	44	<10	42
CC147054		<20	0.08	<10	<10	56	<10	55
CC147055		<20	0.05	<10	<10	46	<10	46
CC147056		<20	0.04	<10	<10	43	<10	51
CC147057		<20	0.03	<10	<10	62	<10	52
CC147058		<20	0.17	<10	<10	130	<10	62
CC147059		<20	0.08	<10	<10	51	<10	30
CC147060		<20	0.08	<10	<10	51	<10	110

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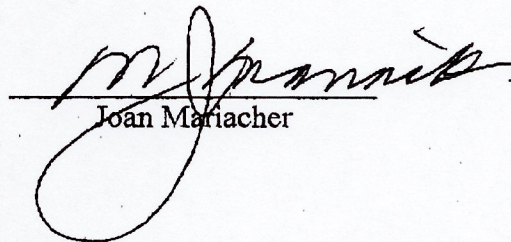
Telephone: 604-688-2568

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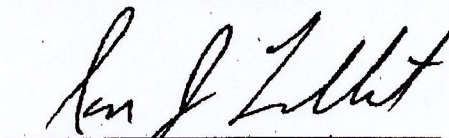
I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the Has 1-54, Vivi 1-2, 11-12
and 19-30 mineral claims on claim sheet 105A/13 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

this 17th day of October 2011.


Barrister & Solicitor

IAN J. TALBOT
Barrister & Solicitor
261 East 6th Street
North Vancouver
British Columbia
Canada V7L 1L8

Statement of Expenditures
Has 1-54 and Vivi 1-2, 11-12 and 19-30 Mineral Claims
October 18, 2011

Expenses

Outbound Aviation	\$43,069.67
Inconnu Lodge	5,209.34
ALS Chemex	<u>14,825.20</u>
	<u>\$63,104.21</u>