

**Renewal Report for Work Filed:**

**July 23<sup>rd</sup>, 2013**

**“IN” Grouping #HDO3380**

**Test Trenching: July 9<sup>th</sup> – July 14<sup>th</sup>, 2013**

**Prospecting & Sampling: July 14<sup>th</sup>, 16<sup>th</sup> & 18<sup>th</sup>, 2013**

**“Waste Vein” ~ Geological Report**

**Work done on claims:**

Waste 5 (YD90405), Waste 7 (YD90407) and Waste 9 (YD90409)

Dawson City Mining District 115014 & 116B03 Maps  
UTM to Access - Hunker Creek Road: 07V 0595350/7097050

Claims Owner: Sylvain Montreuil/ Erini Petroutsas  
Report Compiled by: Erini Petroutsas

**“IN” Group #HDO3380 279 quartz claims 50%Sylvain Montreuil / 50%Erini Petroutsas**

IN 1: YD92490 - 2015/10/27  
IN 2 – 10: YD92492 - YD92500  
IN 11 – 12: YD93401 - YD93402  
IN 13 – 14: YD93403 - YD93404  
IN 15 – 22: YD93405 - YD93412  
IN 23 – 30: YD93413 - YD93420  
IN 31 – 36: YD93421 - YD93426  
IN 37 – 46: YD93487 - YD93496  
IN 47 – 48: YD93499 - YD93500  
IN 49: YD90471  
IN 50: YD90472  
IN 51 – 58: YD129024 - YD129031  
IN 59 – 60: YE77640 - YE77641  
IN 61 – 66: YE77642 - YE77647  
IN 67 – 74: YD129040 - YD129047  
IN 75 – 83: YD93469 - YD93477  
IN 84 – 98: YD93427 - YD93441  
IN 99: YD93450  
IN 100 – 105: YD93442 - YD93447  
IN 106 – 107: YD93448 - YD93449  
IN 108 – 125: YD93451 - YD93468  
IN 126 – 132: YD93478 - YD93484  
IN 133 - 134 YD93485 - YD93486  
IN 135 - 143 YD90473 - YD90481  
IN 144 – 156: YD92251 - YD92263  
IN 157 – 166: YD129001 - YD129010  
IN 167 – 173: YD129011 - YD129017 (174-175missing)  
IN 176 – 179: YF04405 – YF04408  
IN 182 – 185: YF04411 – YF04415  
Indepen-F: YD93497  
Dance-F YD93498  
  
Waste 1 – 7: YD90401 - YD90407  
Waste 8: YD90408  
Waste 9 – 16: YD90409 - YD90416  
Waste 17: YD90417  
Waste 18: YD90418  
Waste 19 – 20: YD90419 - YD90420  
Waste 21 – 22: YD90421 - YD90422  
Waste 23 – 24: YD90423 - YD90424  
Waste 25 – 29: YD90425 - YD90429  
Waste 30 – 33: YD90430 - YD90433  
Waste 34: YD92489  
Waste Suprise 35: YD102301  
W 36: YE71377  
Waste 37: YE71315  
WF: YE71378  
Waste LCF YE71380

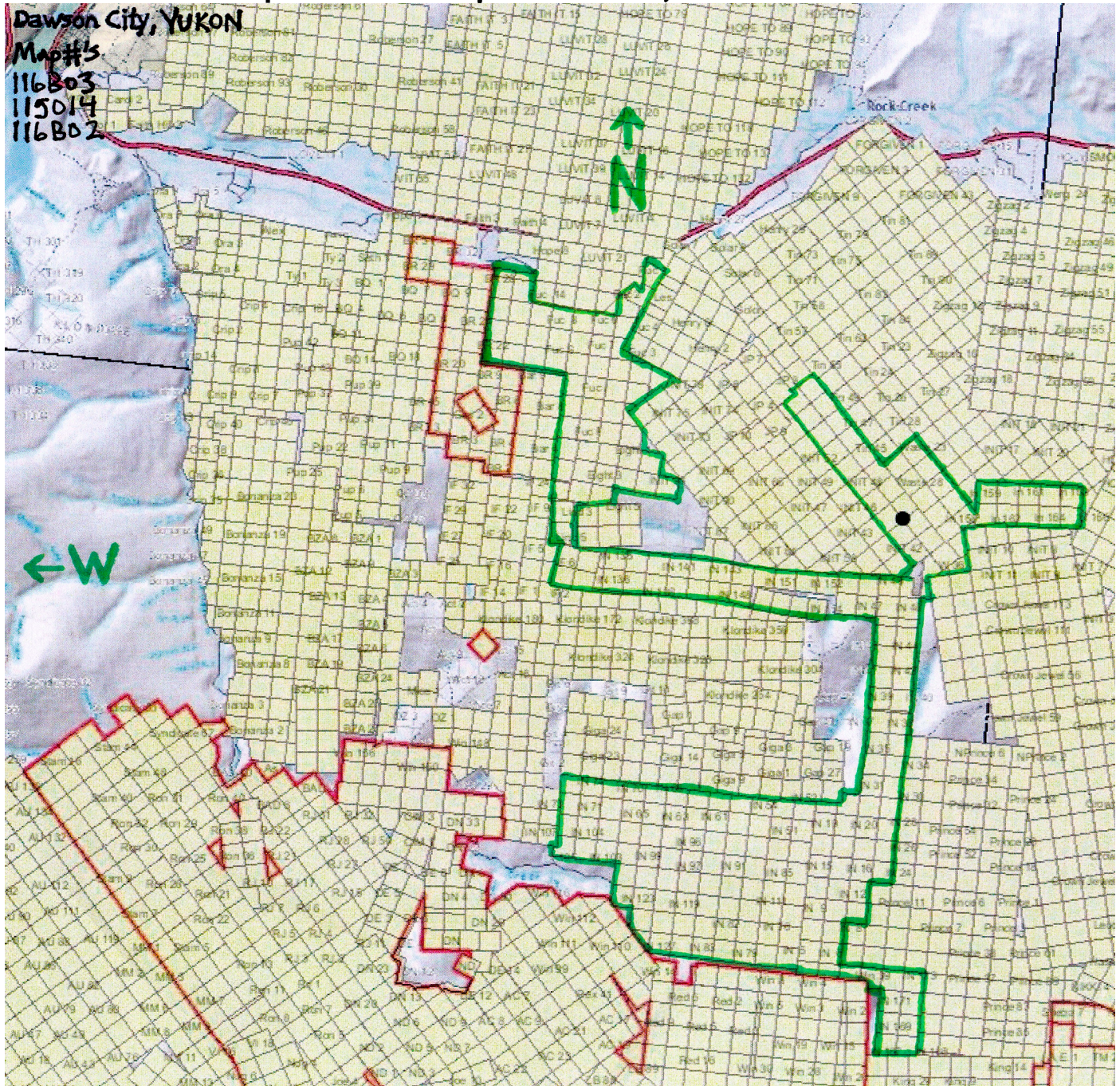
Eight 0 – 9: YD90434 - YD90443  
EIGHT 18 – 25: YE79873 - YE79880  
EIGHT 27 – 28: YD72662 - YD72663  
Lind 3: YD129021  
Lind 5: YD129022

Fuc 1 – 2: YD11928 - YD11929  
Fuc 3 – 5: YD129018 - YD129020  
Fuc 6: YD89575  
Fuc 7: YD89573  
Fuc 8: YD89576  
Fuc 9: YD89574  
Fuc 10: YD11950  
Fuc 11: YD11948  
Fuc 12: YD89589  
Fuc 13: YD11949  
Fuc 14: YD89595  
Fuc 15 – 16: YD89593 - YD89594  
Fuc 17: YD89592  
FUC HENRY: YE71339  
FUC GULCH: YE71340

FUC MIN: YE71342  
FUC OX: YE71341  
Fuc F: YD89565  
Fuc U: YD89566  
Fuc C: YD89567  
Fuc S: YD89572  
Fuc H: YD89568  
Fuc I: YD89569  
Fuc T: YD89570  
Fuc E: YD89571  
Fuc O 1: YD89577  
Fuc O 2 – 8: YD89578 - YD89584  
Fuc O 11: YD11947  
Fuc O 12: YD11946  
Fuc O 13: YD89597  
Fuc O 14: YD89596  
Fuc O 15 – 16: YD89590 - YD89591

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## "IN Group" Claims Maps: 116B03, 116B02 & 115014



Bear to Last Chance Creeks. Hester Creek and Hunker. Volcanic Intrusive contact zone north of Hunker Creek. Continues south up Colorado & Independence Creeks to Carmacks Fork at Upper Bonanza. (Lone Star Occurrence #072 min-file; directly south West of the group.)

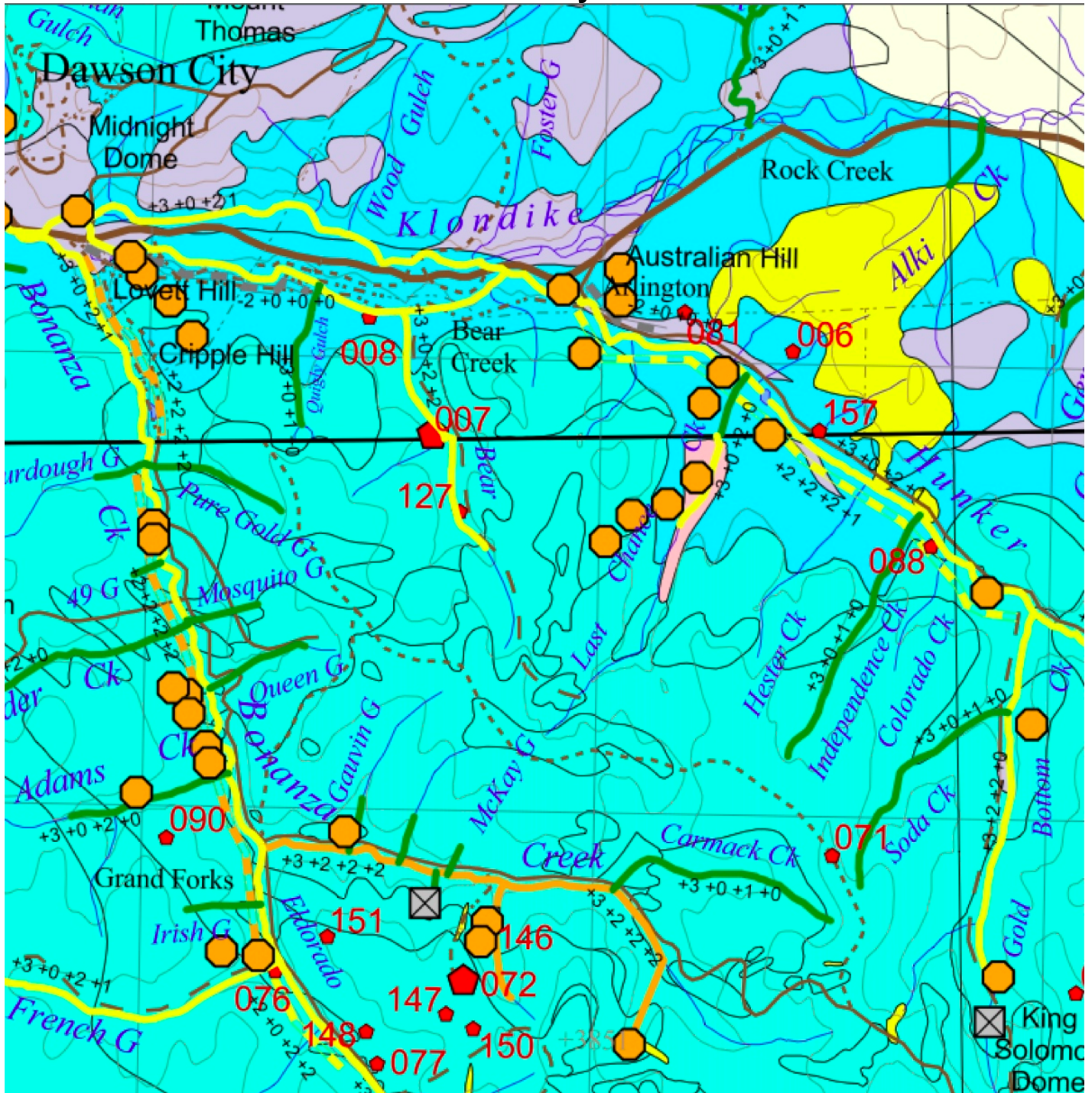
### Introduction and Access

An investigation into the structures lying near and beneath "Waste7 Boudinage Vein" (gold positive assay results 2011-2012) and expand new potential areas to sample.

Centering focus on the un-covered lithology of **Waste 7** claim, Hester Creek a tributary of Hunker Creek, 20 km's from Dawson City by Klondike Highway & Hunker Creek Road. Existing road access to the area called "**Syl Vein**" Area, for lack of a better name, accommodates access for equipment.

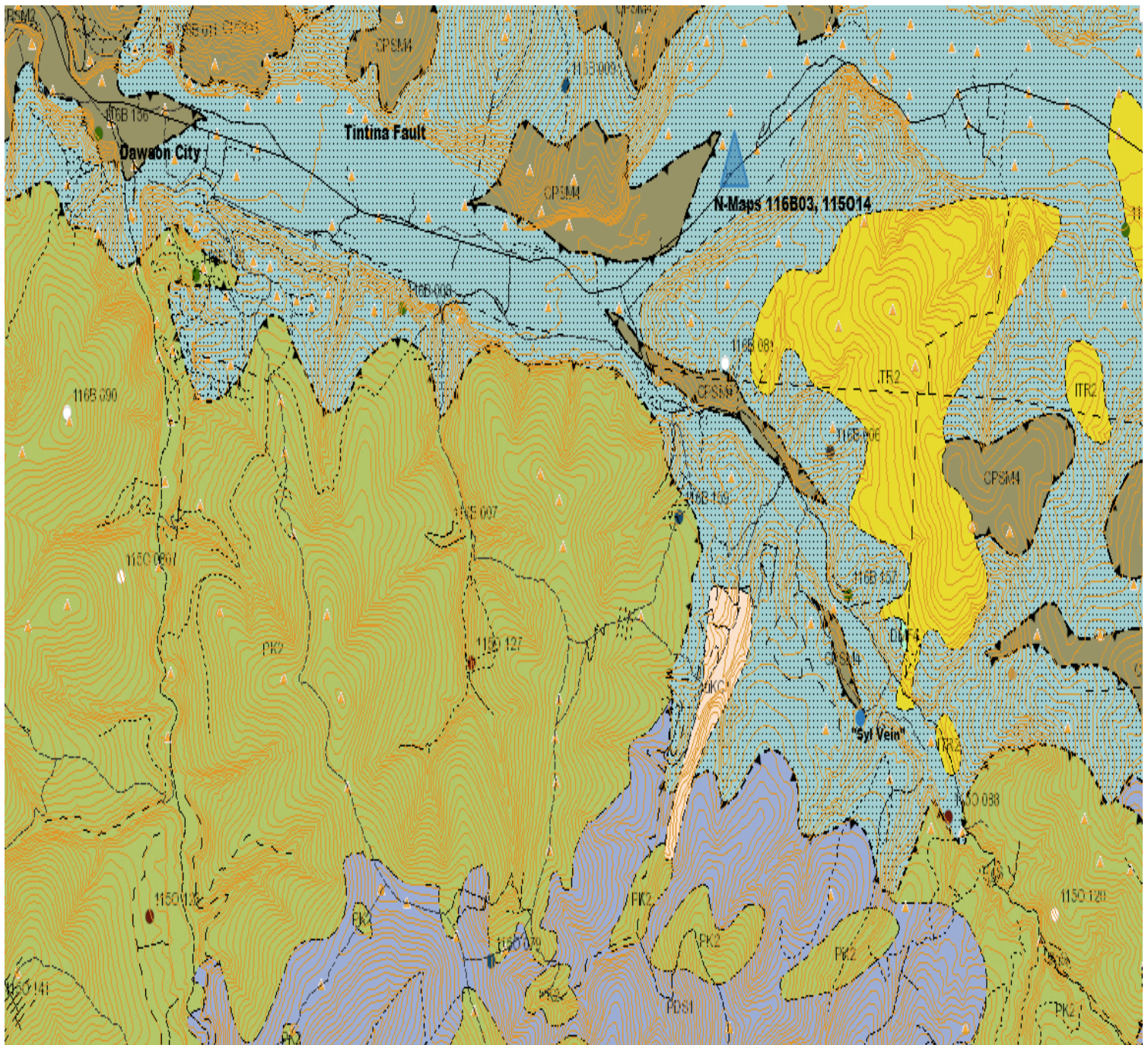
Objective has been to determine rock types associated with this central point of focus "high sulfide zone" and see if other altered rock types in the vicinity of this occurrence also hold potential for gold & what other elements are associated with it.

## History



Historic Min-file Occurrences Covered by IN Group Include: 116 007, 115 157, 115 088, 115 018 and 115 087.

Placer production in the area has been prolific since the initial gold rush of 1898. Continuing today with placer operations on Hunker, Upper Bonanza (Carmacks Fork), Bear and Last Chance Creeks. Nugget, Paradise and Preido Hills are well documented “white channel hills” that have been operating and producing profitably since the gold rush to today.



**General Geology:**

**Nasina Subterrane-** Metamorphosed Paleozoic continental margin with superposed Late Devonian and Early Mississippian arc volcanic and plutonic rocks.

**Klondike Schist Subterrane-** Metamorphosed upper Paleozoic arc volcanic rocks.

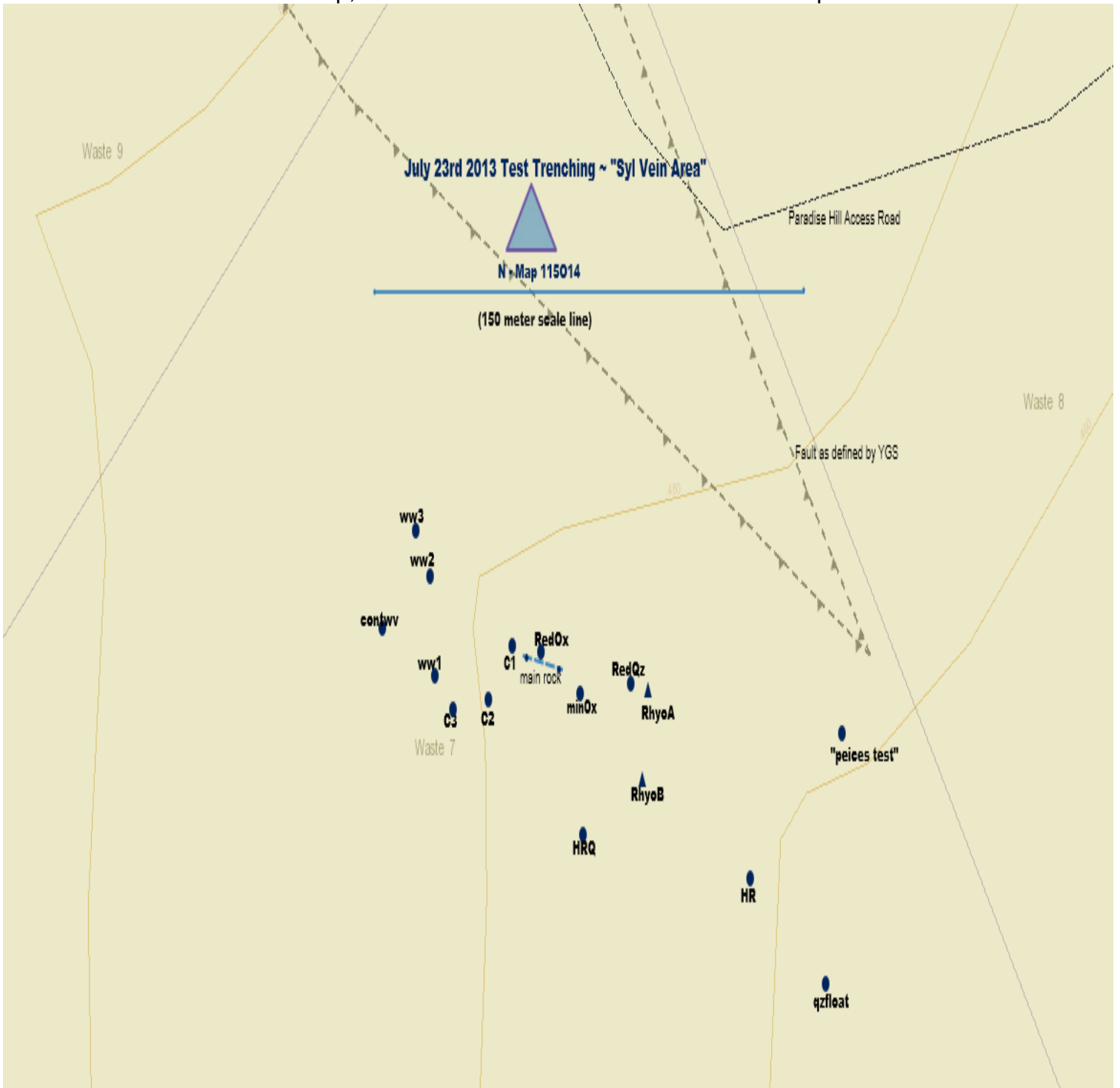
**TVS-** Tertiary felsic to mafic volcanic rocks with inter-bedded terrestrial sedimentary rocks.

**Fault & Shear** – Activity identified for further study.

**Serpentinite & Listwanite** – Ophiolites and ultramafics identified along entire plateau of Paradise Hill and north of it on Hunker, for further study in depth study.

## Test Work Objective 2013

Test trenching 2013 was concentrated North-East of the “main rock-Waste7” outcrop. As well as South-West up “Hester Hill Ravine” towards Paradise Hill, where large floats of the same quartz vein material lie, above elevation. Tip of the “vein system” “ends” true East 91.7 degrees 14 meters from the top, which remains buried under overburden slope on the west.



## Previous Work

“Main rock” at “Syl-Vein Location”, after trenching. Results shown below are from 2011-2102 assay analysis of this vein or vein remnant, the schist directly below & south of it and remnant boulders similar to it in the area, East Paradise Hill to Hester Creek.



14 meters of length 1.5 meters of thickness 4 meters wide, has been uncovered with an excavator, near surface from the “Top of vein”. Down-ward west dipping 20 degrees under the hillside overburden to the tip, which has broken off on the east side.

Sulfides and quartz stringers run through altered black schists below “Waste7 Vein”. Uncovered for a depth of 2 meters directly below the “vein”. Further uncovered to a depth of 6 meters (below original surface) for 20 meters north, south & east of focal “main rock”. Black schists in this area contain veins as well as cubes of various sulfides, quartz veins and stringers.

## 2011 Assay Results

Of 6 grab samples collected by prospectors and sent from the main rock and surrounding environment, 1 sample assayed at **2.18gm/ton Au & 4 tested more than the tests upper limit of >10,000ppb Au ~ more than 10gm/ton**. Fire Assay 3B03 method specific for Au, Pt & Pa.

Reject pulps were later retested by **Metallic Au G6012 method** to gain accurate gram and mineralogy details. See results on next page. **Waste 1, 2 & 6**, which had enough pulp to retest, returned respectively **9.2, 12.9 & 34.1 grams/ton gold**.

**6 Samples returned Sept. 21/2011** from waste7 vein, taken from main rock on the North, East and South and west sides. (Plus 1 sample from “BenLevi” Vein on Hunker Creek, another prospect target of the IN Group.)

<u>Waste</u>	<u>Assay results</u>	<u>Locations</u>	<u>Description:</u>
1-	<b>2.18gm/ton Au</b>	See Appendix B	East tip main rock
2-	<b>&gt;10,000ppb Au</b>		West edge of main rock
3-	-Insufficient material		Pyrite Trench” South
4-	<b>&gt;10,000ppb Au</b>		SW side of main rock
5-	<b>&gt;10,000ppb Au</b>		East tip main rock
6-	<b>&gt;10,000ppb Au</b>		Boulder remnant south hill
<b>BenLev-</b>	Crystalized quartz in contact with light green, highly hydrothermally altered rock.		



# AcmeLabs

Acme Analyt

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

## CERTIFICATE OF ANALYSIS

	Method	WGHT	3BMS	3BMS	3BMS
	Analyte	Wgt	Au	Pt	Pd
	Unit	kg	ppb	ppb	ppb
	MDL	0.01	1	0.1	0.5
WASTE 1	Rock	2.51	2180	5.4	1.7
WASTE 2	Rock	0.93	>10000	0.6	29.2
WASTE 3	Rock	I.S.	I.S.	I.S.	I.S.
WASTE 4	Rock	0.34	>10000	0.5	17.4
WASTE 5	Rock	0.23	>10000	0.9	7.4
WASTE 6	Rock	1.98	>10000	0.4	36.1
BEN LEV AUG 12	Rock	0.44	4	2.5	1.7

Method Code **R200-1000 3B03**. Fire Assay. Results returned September 21, 2011  
Job# WHI11001168.1

**Retested Pulps from May 2011 sampling #'s Waste 1-6, Sept.21, 2011.**

## CERTIFICATE OF ANALYSIS

	Method	M150	G6.ME	G6.ME	G6.ME	G6.ME	G6.ME
	Analyte	TotWt	Tot Wt	+ Wt	+ Au	- Au	Tot Au
	Unit	g	g	g	mg	gm/t	gm/t
	MDL	1	1	0.01	0.001	0.17	0.17
WASTE 1	Rock	490	490	22.93	2.697	3.8	9.2
WASTE 2	Rock	501	501	25.45	8.045	19.0	34.1
WASTE 6	Rock	468	468	25.77	1.731	9.7	12.9

Method Code **G602-G612**. Results returned November 22, 2011.

Job# WHI11001168M.1

Only 3 samples unfortunately had enough reject pulp to re-test. \*The results show samples **Waste 1,2 & 6** return **9.2, 12.9 & 34.1 grams/ton of gold ~ at surface**.

All samples Waste 2011: 1-12 excluding #3, were chipped from the main vein rock.  
#6 was taken from a remnant boulder similar looking as "main rock".

More Assayed Rock Samples taken from grab sampling May12th-31<sup>st</sup>, 2011.

### **5 Samples returned June 16/2011**

Waste	Assay results	Locations	Description:
<b>9</b>	180 ppb Au	See Appendix B	South-western edge of main-rock
<b>10</b>	<b>-3.11gm/ton Au</b>		Chipped off main rock
<b>11</b>	0.02 gm/ton Au		Chipped off main rock
<b>12</b>	<b>-1.39gm/ton Au</b>		Chipped off main rock

**CERTIFICATE OF ANALYSIS**

**WHI11000169.1**

Method	WGHT	G6	G6	G6
Analyte	Wgt	Au	Pt	Pd
Unit	kg	gm/t	gm/t	gm/t
MDL	0.01	0.01	0.01	0.01
09 Rock	1.89	0.18	<0.01	<0.01
10 Rock	1.14	3.11	<0.01	0.01
11 Rock	1.09	0.02	<0.01	<0.01
12 Rock	1.15	1.39	<0.01	<0.01

Method Code **R200-250 G608**. See full copies of assay 2011 Appendix: Results returned June 6, 2011  
**Job# WHI11000169.1**

**Chip Sampling taken by Kinross Mining as observers on 26<sup>th</sup> August 2012:**  
**Anomalous Chromium in samples Klk1-4 (Paradise Plateau). High nickel in samples Klk1-6.**



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**CERTIFICATE WH12204560**

Project:  
Job No.:  
This report is for 21 Rock samples submitted to our lab in Whitehorse, YT, Canada on 31-AUG-2012.  
The following have access to data associated with this certificate:

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

Sylvain Montreuil Rock Samples  
Klondike, Yukon

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME- MS41	51 anal. aqua regia ICPMS
Au- ICP21	Au 30g FA ICP- AES Finish ICP- AES

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**CERTIFICATE OF ANALYSIS WH12204560**

Sample Description	Method Analyte Units LOR	WEI- 21	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	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
KLK- 1		2.88	0.30	1.25	147.5	<0.2	<10	260	0.70	0.18	0.13	1.36	24.6	87.0	638	3.70
KLK- 2		2.78	0.10	0.34	193	<0.2	<10	40	0.13	0.01	12.60	0.62	4.05	19.7	573	1.53
KLK- 3		2.28	0.24	0.08	78.2	<0.2	<10	200	1.32	0.05	0.04	1.17	5.55	23.2	815	0.62
KLK- 4		3.21	0.17	1.46	130.0	<0.2	<10	120	3.28	0.06	0.08	4.95	12.70	143.0	800	8.83
KLK- 5		2.07	35.0	0.17	994	8.2	<10	10	0.12	10.15	2.36	2.01	3.43	49.2	4	0.11
KLK- 6		2.48	4.07	0.43	1730	<0.2	<10	10	0.43	0.75	0.50	0.12	12.15	74.3	8	0.57
KLK- 7		1.17	0.23	0.18	24.6	<0.2	<10	90	0.55	0.37	0.04	0.23	28.3	1.0	10	0.36



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Plus Appendix Pages
Finalized Date: 21- SEP- 2012
Account:

CERTIFICATE OF ANALYSIS WH12204560

Table with 16 columns (Sample Description, Method Analyte Units, LOR, and 15 elements: Cu, Fe, Ga, Ge, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Nb) and 7 rows (KLK-1 to KLK-7).



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CERTIFICATE OF ANALYSIS WH12204560

Table with 16 columns (Sample Description, Method Analyte Units, LOR, and 15 elements: Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti) and 7 rows (KLK-1 to KLK-7).



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**CERTIFICATE OF ANALYSIS WH12204560**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
KLK-1		0.18	2.63	50	0.08	16.85	160	2.7	0.010
KLK-2		0.11	0.15	20	<0.05	8.95	47	<0.5	0.003
KLK-3		0.03	2.27	28	0.13	10.35	75	2.9	0.009
KLK-4		0.24	2.47	110	0.05	12.15	278	1.9	0.022
KLK-5		0.13	0.56	5	<0.05	10.45	46	8.8	9.23
KLK-6		0.11	0.71	9	0.07	4.72	144	20.8	0.115
KLK-7		0.03	2.05	1	0.30	11.90	26	1.8	0.014



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**CERTIFICATE OF ANALYSIS WH12204560**

Method	CERTIFICATE COMMENTS
ME-MS41 ME-MS41	Interference: Samples with Ca> 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

**KLK 5 assayed at 8.2 gram/ton and 9.23 gram/ton Au over 2 meters. KLK 5 also assayed 11gm/ton silver & 30 ounce/ton of copper – (958ppm Cu). Area of south- eastern graphite contact below the “main rock”, altered black schist containing brass colored well- formed pyrite cubes.**

Sample Number	area	East (UTM meters)	North (UTM meters)	elevation (m)	samplers
KLK-1	Paradise Hill	595009	7097061	521	Dave Emmons (Kinross)
KLK-2	Paradise Hill	595018	7097052	518	Dave Emmons (Kinross)
KLK-3	Paradise Hill	594999	7097056	520	Dave Emmons (Kinross)
KLK-4	Paradise Hill	594863	7097041	519	Dave Emmons (Kinross)
KLK-5	Waste #7, Hester Creek	595320	7097037	469	Sylvain Montreuil, Dave Emmo
KLK-6	Waste #7, Hester Creek	595334	7097035	470	Dave Emmons (Kinross)

<u>sample type</u>	<u>rock type</u>
6-ft horizontal channel in trench wall	ultramafic (listwanite)
grab of muck pile from trench	ultramafic (listwanite)
grab of muck from trench	gossan (after ultramafic?)
grab of outcrop	ultramafic, quartz-feldspar-sercite schist
high grade grab of 2-ft pyrite zone	carbonaceous quartz-feldspar schist
high-grade of pyrite coarse cubes from outcrop	carbonaceous quartz-feldspar schist

<u>#</u>	<u>alteration</u>
1	goethite, carbon, fuchsite
2	sericite, carbonate
3	iron carbonate with 15% silica replacement
4	hematite, goethite, clay, carbon
5	massive pyrite, carbon, contact with 5-ft quartz vein wedge, green-yellow scorodite-jarosite, secondary gypsum
6	pyrite

	<u>Sample Number</u>
KLK-1	Locally vuggy, saprolite outcrop, uphill end of trench
KLK-2	Medium-grained feldspar-carbonate rock with shears of fuchsite. Metamorphosed ultramafic lense. Minor 1/8th-inch quartz veins, but sampled country rock.
KLK-3	Ankerite largely weathered out, so rock is vuggy and mostly held together by silica network. Some fuchsite.
KLK-4	Exposure of saprolite at top of bedrock, 5 feet below white channel gravel. Backhoe cut of old placer face.
KLK-5	Chipped out pyrite concentration at base of 5-ft high quartz vein. Host is black graphitic quartz-feldspar-sericite schist. Sylvain says previous sample of this material 2011 graded gm/t Au.
KLK-6	Coarse 1-3 inch cubic pyrite in graphitic schist. This coating on cubes of apparent oxide, making it look tarnished. Outside chance that surface coating is gold plating. Black schist is crenulated. Surface secondary gypsum after sulfides. "Rhyolite dikes" are feldspar-carbonate so probably ultramafic dikes. Deep pit with ladder in it.


**KLK samples 1-6 taken on August 26, 2012 by Kinross Mining Executive (Dave Emmons), & geologist (John Norby) as observers, to help confirm previous assay results from the "main rock/Waste7Vein".**

**Waste Vein Fall 2011-2012 sampling results**

**W7** -Sulfide rich calcite & quartz veins through altered graphite. ~ **754 ppbAu Fire Fusion; 610 ppbAu Neutron Analysis.**

**W7west** -Quartz calcite with sulfide veining (pyrite, arsenopy, chalcopyrite), along side black schist also carrying sulfides. 20m west of "rock". **<1ppbAu Neutron Analysis.**

**W5** – SouthEast of W7vein & Hester Creek. Outcrop of white bull quartz. Next to gossan of carbonate conglomerate quartz pieces & orange/green oxidation. Continuation of quartz carbonate with "goed" altered chlorite contacting altered graphite faulting. ~ **366 ppbAu Neutron Analysis.**

<b>Company :</b> Petroutsas, Erini	
<b>Submitted by :</b> Erini Petroutsas	<b>T12-02262.0</b> 6790 Kitimat Rd, Unit #4
<b>Date Received :</b> 08-Nov-12	Mississauga, ON, Canada, L5N 5L9
<b>Date Reported :</b> 20-Nov-12	Ph: (905) 826-3080 Fax : (905) 826-4151 email : RAllen@maxxam.ca

**Acme file # :** WHI12000989

Samples were run as received.



**Analysis performed by Neutron Activation (Method BQ-NAA-1)**

A negative result denotes "Less Than".

**Note :** Mo results are interfered with by Mo production from U fission.

#	ID	Wt	Sb	As	Ba	Br	Ca	Ce	Cs	Cr	Co	Eu	Au	Fe	La	Lu	Nd	Ni	Ta	Tb	Th	Sn	W	U	Yb	Z
		grams	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	W7	10.81	0.4	165.0	970	-0.5	6	26	3	43	33	1.0	754	10.90	16.0	1.70	12	340	0.5	0.5	6.7	-100	3	1.7	7.6	
2	W7west	12.69	0.6	15.0	260	-0.5	9	5	-1	24	8	3.2	-2	6.76	5.8	4.00	5	-100	-0.5	3.9	4.0	-100	-1	1.3	28.0	
4	W5	11.62	0.1	6.9	340	-0.5	-1	23	1	23	1	0.5	366	0.86	16.0	0.11	12	-100	-0.5	-0.5	3.5	-100	2	2.4	0.7	

**ACME ANALYTICAL LABORATORIES LTD.**

<b>Client:</b>	Petroutsas, Erini				
<b>File Created:</b>	30-May-2013				
<b>Job Number:</b>	WHI12000989				
<b>Number of Samples:</b>	4				
<b>Project:</b>	Petra				
<b>Shipment ID:</b>	<b>Final Report</b>				
<b>P.O. Number:</b>	<b>3B02 Fire assay fusion</b>				
<b>Received:</b>	01-Oct-2012				
	<b>Method</b>	<b>WGHT</b>	<b>3B</b>	<b>3B</b>	<b>3B</b>
	<b>Analyte</b>	<b>Wgt</b>	<b>Au</b>	<b>Pt</b>	<b>Pd</b>
	<b>Unit</b>	<b>KG</b>	<b>PPB</b>	<b>PPB</b>	<b>PPB</b>
	<b>MDL</b>	<b>0.01</b>	<b>2</b>	<b>3</b>	<b>2</b>
<b>Sample</b>	<b>Type</b>				
G1-WHI	Prep Blank	<0.01	<2	<3	<2
W7	Rock	0.38	610	18	<2
W7west	Rock	0.40	8	<3	<2
W5	Rock	5.96	N.A.	N.A.	N.A.

Method Code **G602-G612**. Results returned **November 22, 2011**. Job# **WHI12000989**

**Results from Prospect Sampling – Grab samples August 13<sup>th</sup>, 2012**

		Acme Analytical Laboratories Ltd.						
Maxxam Job #: B3D2189		Client Project #: WHI13000221						
Report Date: 2013/09/04		Site Location:						
<b>RESULTS OF ANALYSES OF SOLID</b>								
	Units	w7x2	w7b2	w7RedOxLine	w7GraphQz	w7Qv1	w7rNW	w4fingers
Bromine	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Antimony (Sb)	ppm	<0.1	0.1	<0.1	<0.1	<0.1	1.1	0.7
<b>Arsenic (As)</b>	ppm	133	19.0	2.4	234	17.0	581	21.0
Barium (Ba)	ppm	1400	150	120	590	330	330	1000
<b>Calcium (Ca)</b>	ppm	65000	18000	23000	66000	12000	110000	<10000
<b>Cerium (Ce)</b>	ppm	77	18	9	25	14	<3	33
Cesium (Cs)	ppm	5	<1	<1	3	1	<1	4
<b>Chromium (Cr)</b>	ppm	95	26	27	39	36	23	46
<b>Cobalt (Co)</b>	ppm	11	4	3	17	4	461	7
Europium (Eu)	ppm	1.6	0.6	0.4	0.9	0.4	0.7	0.9
<b>Gold (Au)</b>	ppm	<0.002	0.003	0.020	0.008	<0.002	5.71	0.009
Hafnium (Hf)	ppm	10	<1	<1	3	2	<1	3
Iridium (Ir)	ppm	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Iron (Fe)</b>	ppm	50800	19500	17200	54400	16500	343000	20500
Lanthanum (La)	ppm	35.0	8.2	3.8	13.0	6.4	4.8	16.0
Lutetium (Lu)	ppm	0.73	0.15	0.55	0.36	0.17	4.20	0.29
Mercury (Hg)	ppm	<1	<1	<1	<1	<1	<1	<1
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<3.1	10
Neodymium (Nd)	ppm	32	11	7	14	8	<5	18
<b>Nickel (Ni)</b>	ppm	<100	<100	<100	<100	<100	340	<100
Rubidium (Rb)	ppm	120	<15	<15	35	21	18	63
Samarium (Sm)	ppm	6.8	2.2	1.9	2.8	1.5	1.0	3.7
Scandium (Sc)	ppm	12.6	2.0	2.0	6.1	3.1	11.1	7.0
Selenium (Se)	ppm	<3	<3	<3	7	<3	36	<3
<b>Silver (Ag)</b>	ppm	<5	<5	<5	<5	<5	23	<5
Sodium (Na)	ppm	14600	2200	590	3800	1200	800	560
Strontium (Sr)	ppm	<500	<500	<500	<500	<500	<500	<500
Tantalum (Ta)	ppm	1.7	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
Terbium (Tb)	ppm	0.9	<0.5	<0.5	0.6	<0.5	<0.5	0.7
Thorium (Th)	ppm	12.0	2.2	1.7	4.9	2.5	3.2	3.4
Tin (Sn)	ppm	<100	<100	<100	<100	<100	<100	<100
Tungsten (W)	ppm	5	<1	<1	2	<1	<1	1
Uranium (U)	ppm	2.8	<0.5	<0.5	1.4	1.6	1.5	5.1
Ytterbium (Yb)	ppm	4.5	1.0	2.8	2.2	1.0	19.0	1.9
<b>Zinc (Zn)</b>	ppm	68	<50	<50	75	<50	<50	<50

12W#		Utm Locations	
		Nad83	07V 0
1	w7a2	595333	7097044
2	w7b2	595328	7097046
3	w7redOx	595321	7097043
4	w7graphOx	595322	7097041
5	w7qv1	595317	7097040
6	w7rNW	595316	7097046
7	w4fingers	596250	7096431

Samples Selected by Erini Petroutsas. Aug. 13th, 2012

**W7rNW** – North West side of “Main Rock”. White quartz and flaky calcite/sulphur compound. Arsenopyrite cased in the hard black graphite “veinlets”. Well formed chalcopyrite crystals along quartz border where white powder cements. Brass colored well-formed pyrite cubes up to 4x4mm in the quartz. Possibly altered by epithermal and hydrothermal activities.



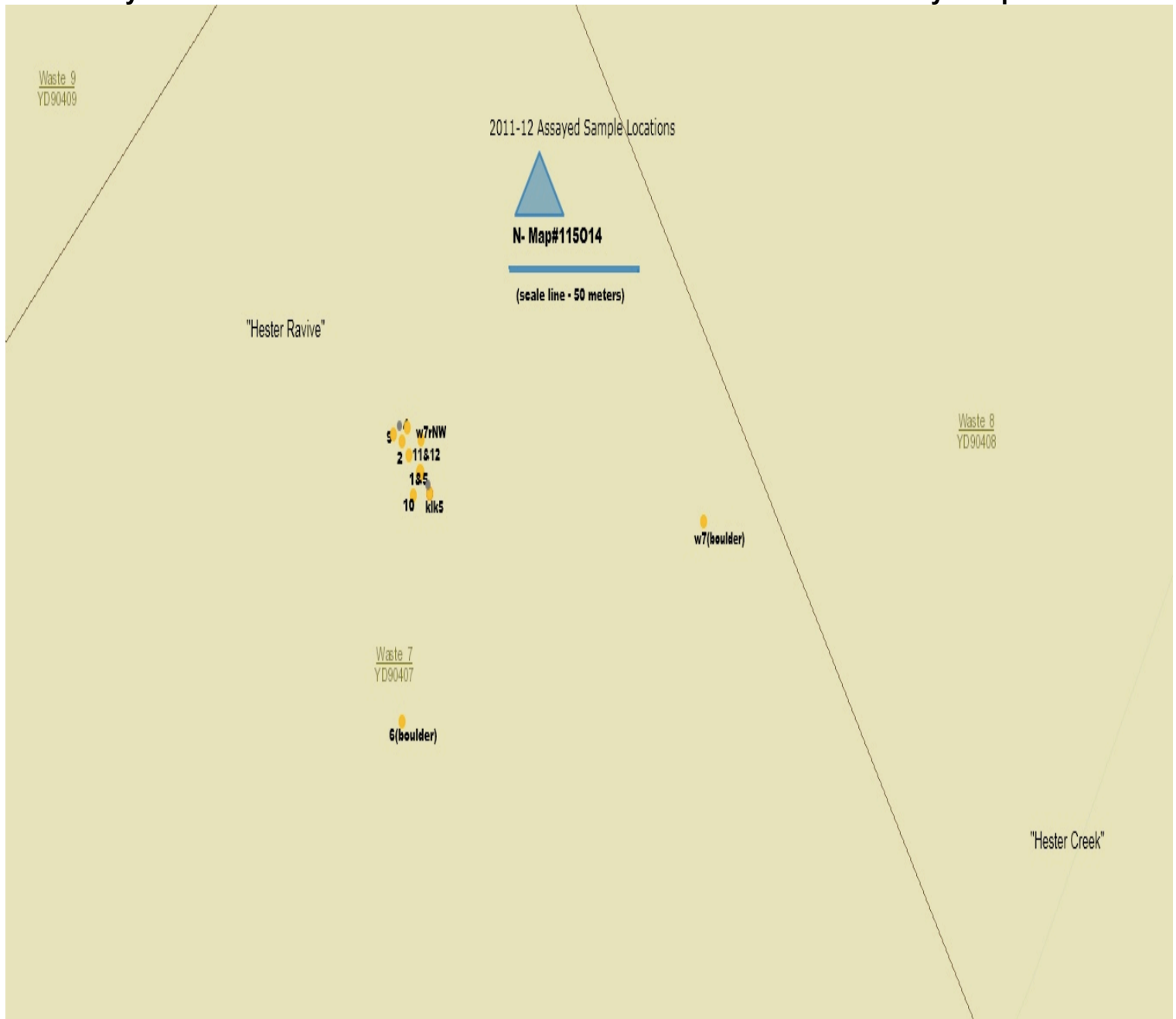
w7rNw – 2013, assayed 581gm/ton Arsenic, 461gm/ton Cobalt, 340gm/ton Nickel, 23gm/ton Silver & **5.71gm/tonAu.**



**Compilation of anomalous gold in assays from 2011-2012 sampling and assay testing of:  
“Main Rock-Waste7 Vein”**

**Similar looking boulders - assay samples 6 & w7**

**Cubic Pyrites in the schist formation below & south of the “Main Rock” assay sample k1k5.**



**2013 study focused on “Red Quartz”, vein structures or fragments, directly below & east of  
“main rock – boudinage vein fragment”.**

**2013 Red Quartz Vein Study “Syl-Vein Area”**

**Two perpendicular veins each 1m wide by 0.8m thick striking north 320°. 3 meters below and 16 meters North-East of Main Rock. Both “veins” were uncovered during 2012 – 2013 test trenching excavation and seem to be continuous for the 4 to 8 meters uncovered.**

**QV1A sample taken during 2013 prospecting from 1<sup>st</sup> “vein” exposure, uncovered & appearing continuous for 2 meters (North-South 320°). 4 meters further north, QV1B & QV1-2 encountered in test trench for another 2 continuous meters.**



**Further North of QV1. QV1B encountered, as well as QV1-2, a second parallel quartz vein fragment 2 meters east of QV1. Tip of main roc is seen in pic to the south west of these “veins”, which strike N perpendicular to the east striking “boudinage-main rock”.**

**Area necessitated re-claimation during 2013 for pad safety of new test trenching, the large broken quartz fragments were laid to the north edge of “ravine” in series order.**



August 9<sup>th</sup> 2013, Derek Torgensen visits Waste Claims. Sample id: 4668985 (“ds”) taken from QV1-2’s south side. (Renamed QV2A-13) Assay Results: 0.00487 ppm Au from 2.3kg weight sample, Aqua Regia Digest ICP-MS.

<b>Aqua Regia Digest - Au, ICP-MS finish (202054)</b>					
			<b>Sample Login Weight kg</b>	<b>Au ppm</b>	<b>Au-Grav g/t</b>
		<b>Unit:</b>		<b>0.0000</b>	
<b>Sample Id</b>	<b>Sample Description</b>	<b>RDL:</b>	<b>0.01</b>	<b>5</b>	<b>0.05</b>
4668985	E5581416		2.3	0.0049	
4668986	E5581417		1.52	0.0021	
4668987	E5581418		2.01	0.0011	
<b>Comments:</b> RDL - Reported Detection Limit					

## July 11<sup>th</sup> 2013 sampling selected for assay by Erini Petroustas.

Grab samples taken from test trench locations as noted in trench descriptions.

Representative chips all from the same locations. Total sample weight split into alphabetic sub-samples to test full rock amount, assayed with Neutron Activation by Bequerel Laboratories.

Acme Analytical Laboratories Ltd.																
Client Project #: WHI1500003																
Maxxam ID			ZQ6839	ZQ6840	ZQ6847	ZQ6848	ZQ6849	ZQ6850	ZQ6841	ZQ6842	ZQ6843	ZQ6844	ZQ6845	ZQ6846		
	Units	RDL	WQV1A	WQV1B	WQV1-BA	WQV1-BB	WQV1-BC	WQV1-BD	WQV1-2A	WQV1-2B	WQV1-2C	WQV1-2D	WQV1-2E	WQV1-2F	RDL	QC Batch
Bromine	ppm	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Antimony (Sb)	ppm	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3933548
Arsenic (As)	ppm	0.5	32.0	34.0	19.0	20.0	21.0	18.0	10.0	10.0	10.0	10.0	10.0	9.1	0.5	3933548
Barium (Ba)	ppm	50	<50	<50	52	<50	<50	<50	<50	<50	<50	<50	<50	<50	50	3933548
Calcium (Ca)	ppm	10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000	10000	3933548
Cerium (Ce)	ppm	3	<3	<3	<3	3	<3	<3	<3	<3	<3	<3	<3	<3	3	3933548
Cesium (Cs)	ppm	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	3933548
Chromium (Cr)	ppm	5	<5	<5	<5	6	<5	<5	<5	<5	<5	<5	<5	<5	5	3933548
Cobalt (Co)	ppm	1	3	3	4	4	4	3	<1	<1	<1	<1	<1	<1	1	3933548
Europium (Eu)	ppm	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3933548
Gold (Au)	ppm	0.002	0.007	0.006	0.027	0.021	0.026	0.021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	3933548
Hafnium (Hf)	ppm	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	3933548
Iridium (Ir)	ppm	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	100	11900	12600	13600	14700	14500	12400	6500	6900	6400	6600	6000	5700	100	3933548
Lanthanum (La)	ppm	0.5	0.6	0.5	1.0	1.2	1.0	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Lutetium (Lu)	ppm	0.05	0.13	0.13	0.16	0.18	0.19	0.16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3933548
Mercury (Hg)	ppm	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	3933548
Molybdenum (Mo)	ppm	2.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.4	3933548
Neodymium (Nd)	ppm	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	3933548
Nickel (Ni)	ppm	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	100	3933548
Rubidium (Rb)	ppm	15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	15	3933548
Samarium (Sm)	ppm	0.1	0.2	0.2	0.3	0.4	0.4	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3933548
Scandium (Sc)	ppm	0.1	0.5	0.6	0.9	1.0	1.0	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.1	3933548
Selenium (Se)	ppm	3	5	5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3	3933548
Silver (Ag)	ppm	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	3933548
Sodium (Na)	ppm	100	110	100	160	140	180	140	<100	<100	<100	<100	<100	<100	100	3933548
Strontium (Sr)	ppm	500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	500	3933548
Tantalum (Ta)	ppm	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Terbium (Tb)	ppm	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Thorium (Th)	ppm	0.2	0.6	0.6	1.1	1.2	1.1	1.2	0.4	0.4	0.4	0.4	0.4	0.3	0.2	3933548
Tin (Sn)	ppm	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	100	3933548
Tungsten (W)	ppm	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	3933548
Uranium (U)	ppm	0.5	<0.5	<0.5	0.5	0.5	0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Ytterbium (Yb)	ppm	0.2	0.4	0.4	0.6	0.7	0.7	0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3933548
Zinc (Zn)	ppm	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	50	3933548

**\*Trace Metals by Neutron activation completed on full sample weights. Split at lab into 30 gram assay samples (a, b c..)**

**One representative sample taken from each of the 3 "Red Quartz" Exposures ~ QV1, QV1B and QV1-2, chipped from the rough center of veins exposure.**

**Selected samples from grab sample program assayed.**

## Data Interpretation:

**QV1 - (07V 0595344/ 7097042)** – 60 gram total weight split into wqv1a – wqv1b – 2 assays. 16 meters NE from the main rock.

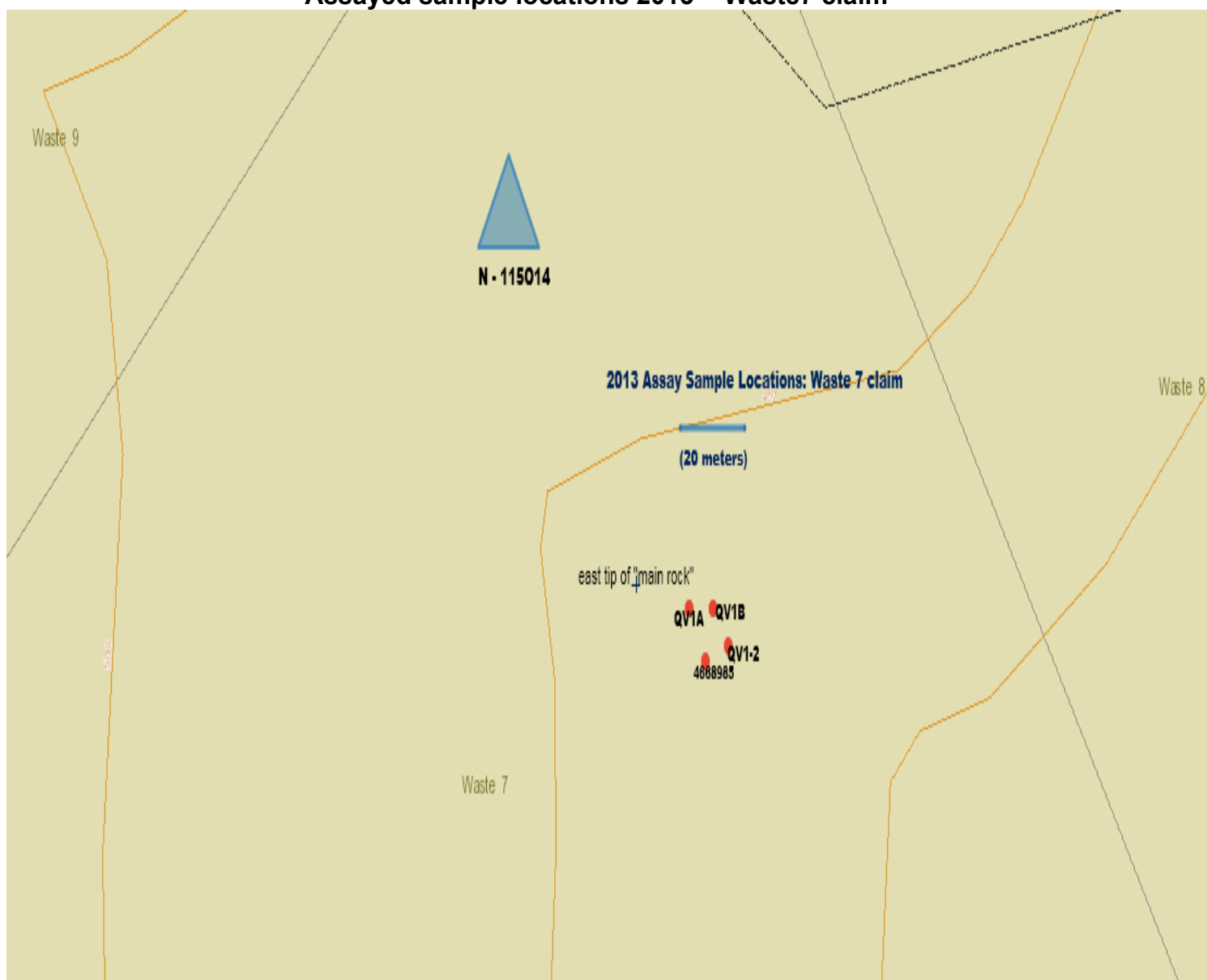
**QV1B – (07V 0595351/ 7097043)** – 120 gram total weight split into wqv1bBa, b, c, d. – 4 assays.  
27, 21, 26 & 21 ppb Au ~ (Small Au anomaly shows conformity along sub-samples.)

**QV1-2 – (07V 0595356/ 7097038)** – 180 gram total weight split into wqv1-2a, b, c, d, e, f. – 6 assays.  
30 meters SE from tip of main rock.

**DS-13 Sample# 4668985 - (07 V 0595349/ 7097034)** – 2.3 kg sample taken from “ds” location on Red QV 2 (QV2A-13). 22 meters SE from the east tip of the main rock. Gave a very low au result of 4ppb Au.

Aside from Arsenic showing slightly anomalous gram per ton, the “red bull quartz” has below detection limit amounts for most of the elements assayed. QV1Ba-d kicked slightly with ppb Au #'s in the 20's showing some promise. Further detailed analysis and sampling should be done of the structures below the “main rock –Waste7”.

### Assayed sample locations 2013 ~ Waste7 claim



**Hester Creek Study – Below “Waste Vein”**  
Stripping done on creek of Hester, to hard-rock horizon.  
(Placer Operation 2008 – 2011 “Gary Zone”)



### General Prospecting 2013

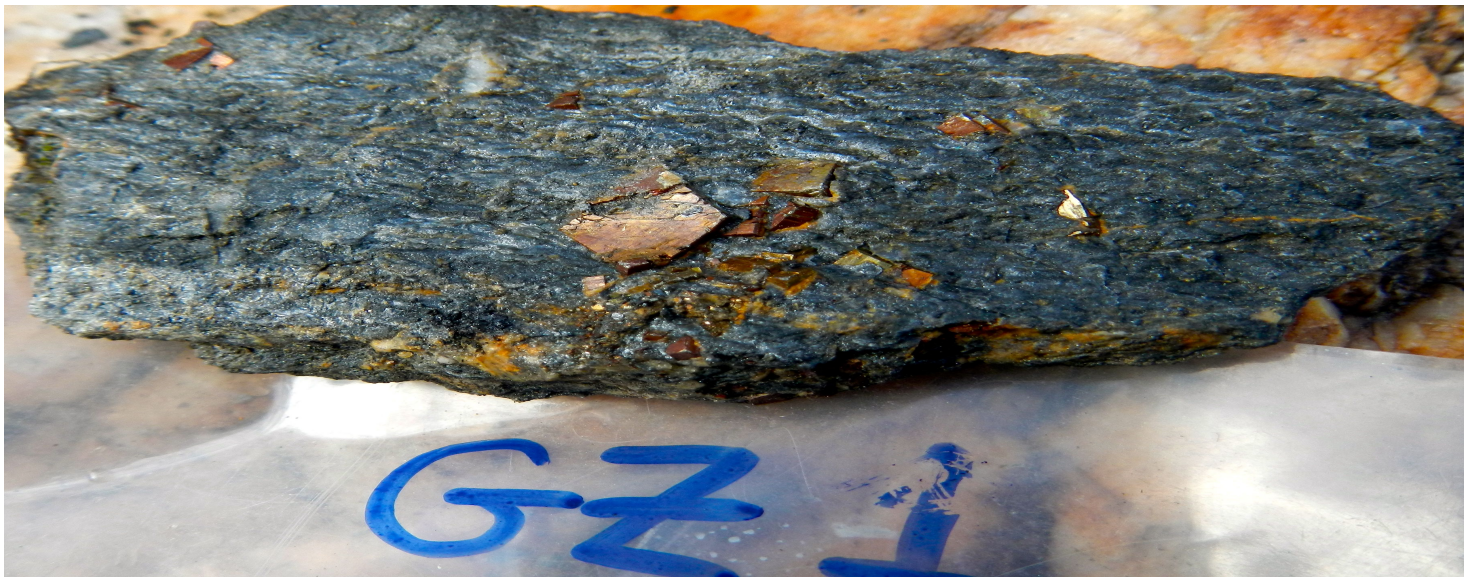
Hand Testing Trench: 3 meters long x 1 meter wide x 0.5 meters deep into bedrock bordering Hester Creek on the west side. Stripped to bedrock by placer mining during 2011, exposing a zone of graphite bedrock 85 meters long along creek bed (20 meters wide). Sampling done over 2 meters at a depth of 0.5 meters below surface into the decomposing hard-rock lithology exposed by the creek runoff.

#### Samples:

**GZ1-** Decomposing shale like, greasy looking black graphite holding pockets & veins of pyrite as well as highly orange oxidized quartz veinlets (up to 3cm wide) and white calcite veinlets (2mm wide) traveling perpendicular to schist-like graphite bedding.

**GZ2-** Bordering 1 upstream. Dense, fine-grained grey "graphite". 60% silica. Quartz veins (up to 4cm wide) running with the bedding. Orange-brown oxidizing quartz veinlets (up to 5 mm wide) crosscut the bedded veins. Cubic pyrite pockets throughout, from (1cm-3cm squares). Gold showings in pannings from decomposed specimens of GZ2. (More work needed with bulk & assay sampling in this location, as permitted.)

\*Up hillside above this west bank of Hester are large quartz in graphite floats of similar composition to the Waste7 vein main rock. Placer tailings of Hester creek to mouth and Hunker, are noticeably predominately of black broken rock.



## 2013 sampling selected for assay by Erini Petroutsas.

Grab samples taken from test trench locations as noted in trench descriptions.

Representative chips all from the same location of each sample, and from definitive bed-rock structure.

Total sample weight split into alphabetic sub-samples to test full rock amount, assayed with Neutron

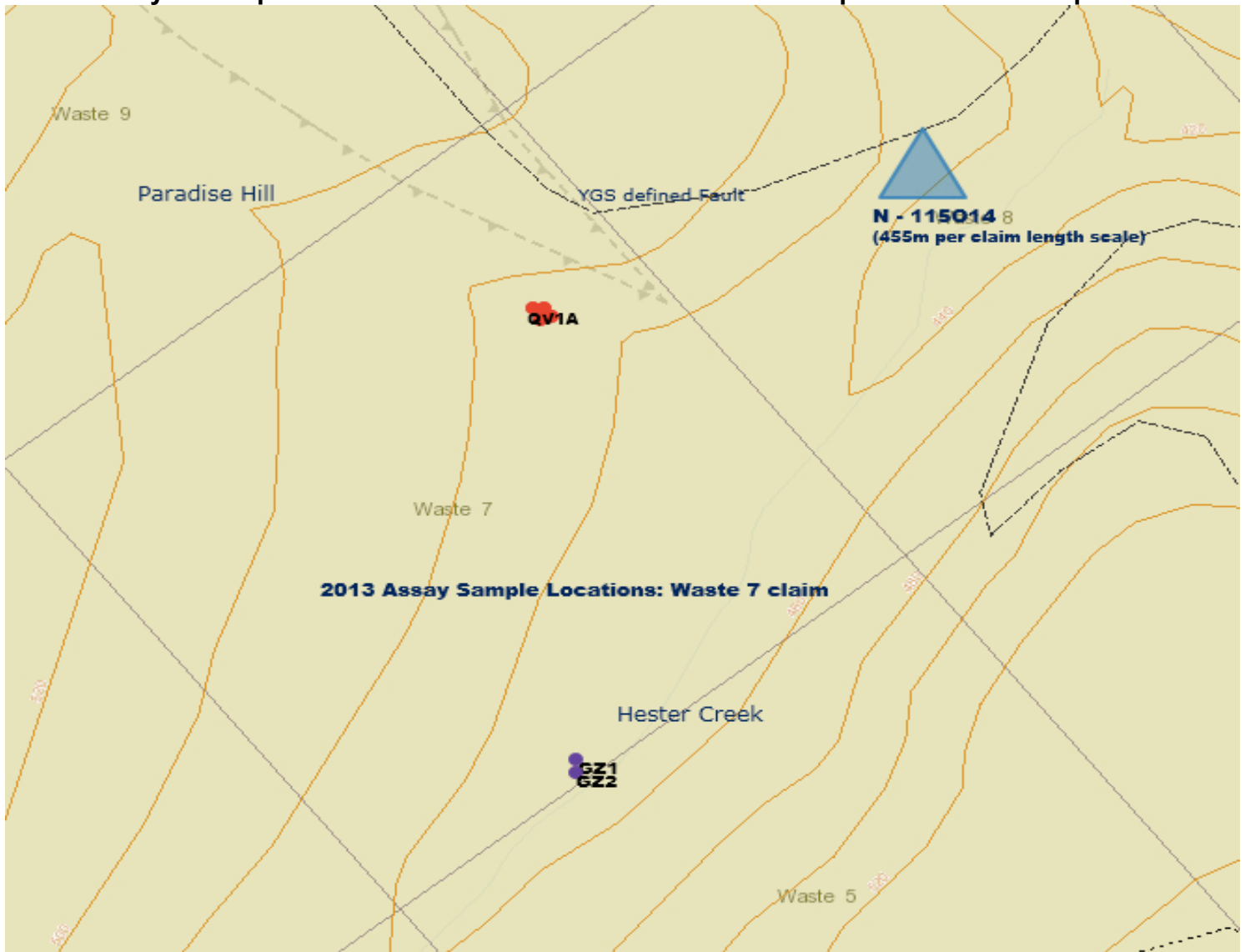
Activation by Bequerel Laboratories.

RESULTS OF ANALYSES OF SOLID																	Maxxam Job Number: B533723	
Acme Analytical Laboratories Ltd.																		
Client Project #: WHI15000003																		
Maxxam ID		ZQ6868	ZQ6873	ZQ6877	ZQ6880	ZQ6882	ZQ6883	ZQ6884	ZQ6885	ZQ6886	ZQ6887	ZQ6888	ZQ6889	ZQ6890	ZQ6891	ZQ6892		
	Units	GZ1A	GZ1B	GZ1C	GZ2A	GZ2B	GZ2C	GZ2D	GZ2E	GZ2F	GZ2G	GZ2H	GZ2I	GZ2J	GZ2K	GZ2L	RDL	QC Batt
Bromine	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	393354
Antimony (Sb)	ppm	<0.1	<0.1	<0.1	<0.1	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	393354
Arsenic (As)	ppm	148	158	151	57.8	64.0	54.5	56.2	68.2	64.4	54.0	62.7	61.1	55.2	57.3	65.7	0.5	393354
Barium (Ba)	ppm	450	480	500	460	530	460	540	510	500	470	520	490	480	480	460	50	393354
Calcium (Ca)	ppm	17000	19000	19000	110000	120000	110000	120000	120000	110000	120000	120000	120000	110000	120000	120000	10000	393354
Cerium (Ce)	ppm	15	16	18	18	20	18	18	19	18	18	21	18	18	19	18	3	393354
Cesium (Cs)	ppm	1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	393354
Chromium (Cr)	ppm	22	25	22	10	12	11	12	12	12	12	15	11	12	11	10	5	393354
Cobalt (Co)	ppm	10	11	10	6	6	6	6	6	7	6	7	6	6	6	6	1	393354
Europium (Eu)	ppm	0.6	0.6	0.5	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.2	393354
Gold (Au)	ppm	0.004	0.007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	393354
Hafnium (Hf)	ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	393354
Iridium (Ir)	ppm	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	393354
Iron (Fe)	ppm	30400	31800	31600	36400	37400	35800	37400	38700	37600	35700	38700	36300	36200	36500	37100	100	393354
Lanthanum (La)	ppm	7.4	7.6	7.4	9.3	10.0	9.0	9.5	10.0	10.0	9.3	10.0	9.0	8.8	9.3	9.2	0.5	393354
Lutetium (Lu)	ppm	0.25	0.26	0.25	0.27	0.28	0.26	0.27	0.28	0.27	0.27	0.30	0.27	0.26	0.29	0.28	0.05	393354
Mercury (Hg)	ppm	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	393354
Molybdenum (Mo)	ppm	22	20	23	9	9	7	9	11	10	9	12	10	9	10	10	1	393354
Neodymium (Nd)	ppm	10	10	9	8	9	8	9	11	6	10	12	8	7	10	9	5	393354
Nickel (Ni)	ppm	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	100	393354
Rubidium (Rb)	ppm	26	26	17	15	17	17	<15	<15	<15	15	16	16	16	17	15	15	393354
Samarium (Sm)	ppm	2.1	2.2	2.1	2.2	2.2	2.1	2.2	2.3	2.2	2.2	2.4	2.2	2.2	2.2	2.1	0.1	393354
Scandium (Sc)	ppm	3.5	3.8	3.7	3.5	3.7	3.6	3.8	3.8	3.7	3.6	3.8	3.6	3.6	3.6	3.7	0.1	393354
Selenium (Se)	ppm	4	4	4	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3	393354
Silver (Ag)	ppm	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	393354
Sodium (Na)	ppm	7600	8200	8000	2000	2100	2000	2000	2000	2000	2000	2000	2000	2100	2100	2000	100	393354
Strontium (Sr)	ppm	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	500	393354
Tantalum (Ta)	ppm	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	393354
Terbium (Tb)	ppm	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	393354
Thorium (Th)	ppm	2.4	2.3	2.3	2.5	2.6	2.4	2.6	2.7	2.7	2.6	2.8	2.7	2.4	2.7	2.7	0.2	393354
Tin (Sn)	ppm	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	100	393354
Tungsten (W)	ppm	2	<1	<1	<1	<1	<1	<1	<1	<1	1	2	<1	2	<1	<1	1	393354
Uranium (U)	ppm	1.7	2.0	1.6	2.6	2.4	2.3	2.4	2.6	2.3	2.6	2.5	2.3	2.0	2.4	3.4	0.5	393354
Ytterbium (Yb)	ppm	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.5	1.7	1.6	1.5	1.6	1.6	0.2	393354
Zinc (Zn)	ppm	<50	<50	50	98	96	92	110	93	100	98	100	100	100	100	94	50	393354

### Data Interpretation

Possible carbon interference Issue with the Neutron Activation test – Test with a different assay method in the future for gold. Arsenic, chromium & cobalt in noticeable numbers.

## Assayed sample locations 2013 ~ Waste7 claim – Grab samples from creek exposure.



### **Conclusion & Recommendations Paradise Hill, Hester Waste7 Vein & Nugget Hill**

Preliminary prospect findings have indicated “Waste7 vein/main rock” to be “paying”. Also the surrounding altered black schist containing pyrite veins and large orogenic cubes of chalcopyrite and various other sulfides have been indicating an area of interest for gold gram-age per ton. More detailed sampling and bedrock mapping is necessary to understand the basic geology of “Syl Vein Area” and the vein or remnant “main rock waste7 vein”.

The “Black Schist’s” turn to a more solid shale & even more solid black silt-stone, containing cross-cutting quartz/calcite veinlet’s and sulfide concentrations, as we go down in elevation to solid bed-rock exposed by previous placer mining on Hester creek. This type of rock remains a target for more detailed assay and geological analysis.

Test trenching on Paradise Hill has exposed bed-rock that should be professionally analyzed and mapped by a P.Geo. Continued testing of Paradise Hill by test trenching into stripped exposed bedrock recommended to further test individual rock types with bulk sampling and mill testing as well as professional objective assay sampling.

## Statement of Qualifications

### Sylvain Montreuil:

Quartz & placer prospector in the Klondike drainage and Indian River, also 60 Mile, Stewart, Peel and Porcupine rivers for over 20 years. Has been involved in the targeting, prospecting, finds and mining of successful small scale mines all over the Klondike Plateau.

Professionally called upon to stake claims, perform surveys, carry out soil & rock sampling programs and assist geologists with scintillometer and magnometer surveys. For clients as well as on his own ventures, he has been responsible for claim recording and groupings, exploration programs and general property management to maintain claims in good standing by shafting, trenching or drilling.

A ticketed heavy equipment mechanic, welder and millwright. Former partners and employers include Joel White, A1Cat mining, Dave Farley (family), Marty Knutsen, Bob Canamol and most recently Mark Pocklington of GoldBank mining, for whom Sylvain helped target, stake and lead an exploration program on the Leota claim block, that led to the projects successful listing on the TSX venture exchange as GoldBank Mining Corp.

### Erini Petroutsas:

Has been employed 9 consecutive summers in the Dawson area as a gold prospector in the field and as geo-tech for drilling projects.

Employment experiences have included being assistant to: Joanna Hodge PhD Geology; Erin O'Brian Masters Geology; Ken Galambos Geologist; Chris Ashe Masters Ultramafic Geology; Keven Brewer MBA & Geologist. References can be requested from any of the above professionals.

### Expense

#### Expenditures July 9<sup>th</sup> – 18<sup>th</sup>, 2013

6 days of testing work with Hoe & operator working 10 hour days at \$100/hour fuel included.

July 9 – July 14

6000

8 days of prospecting and test trench recording. Erini Petroutsas July 9 – 14, 16, 18<sup>th</sup>. \$350/day including camp & daily field expenses.

2800

12 samples selected for assay by AcmeLabs. \$40/each including shipping.

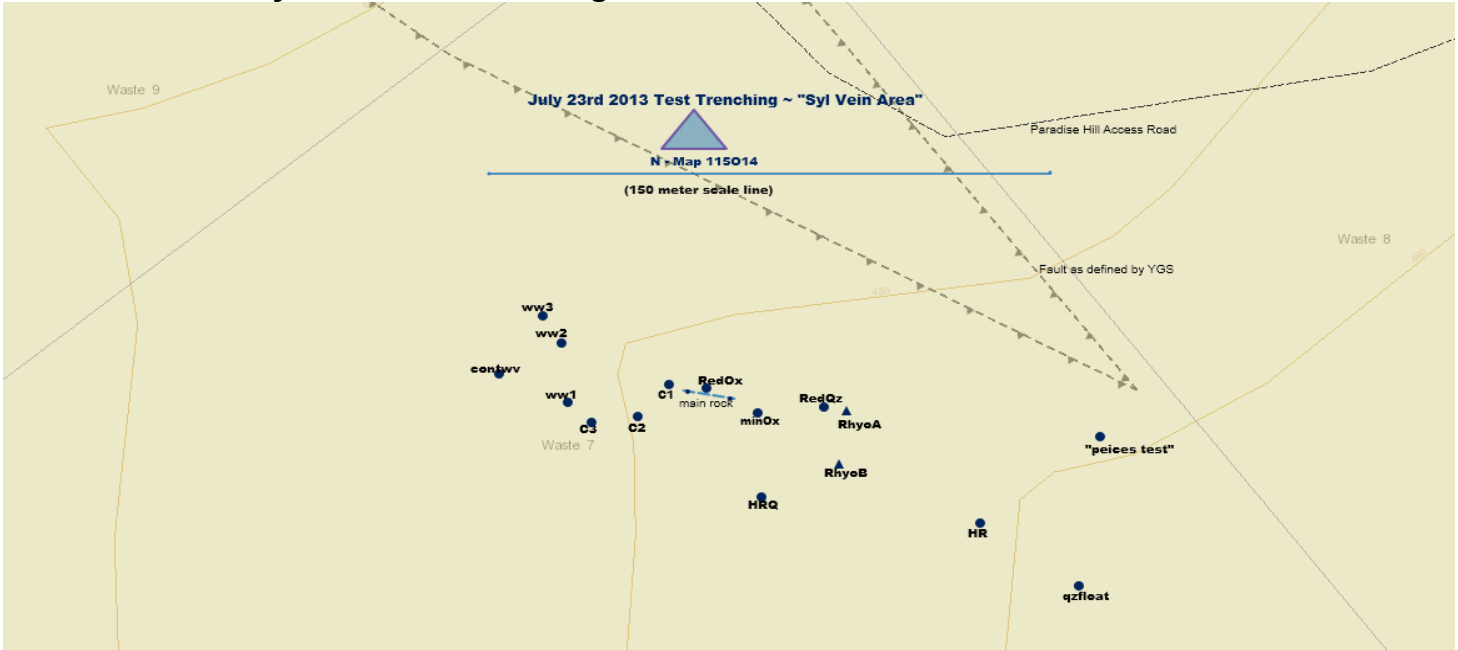
480

Truck & ATV. \$90/day for 8 days.

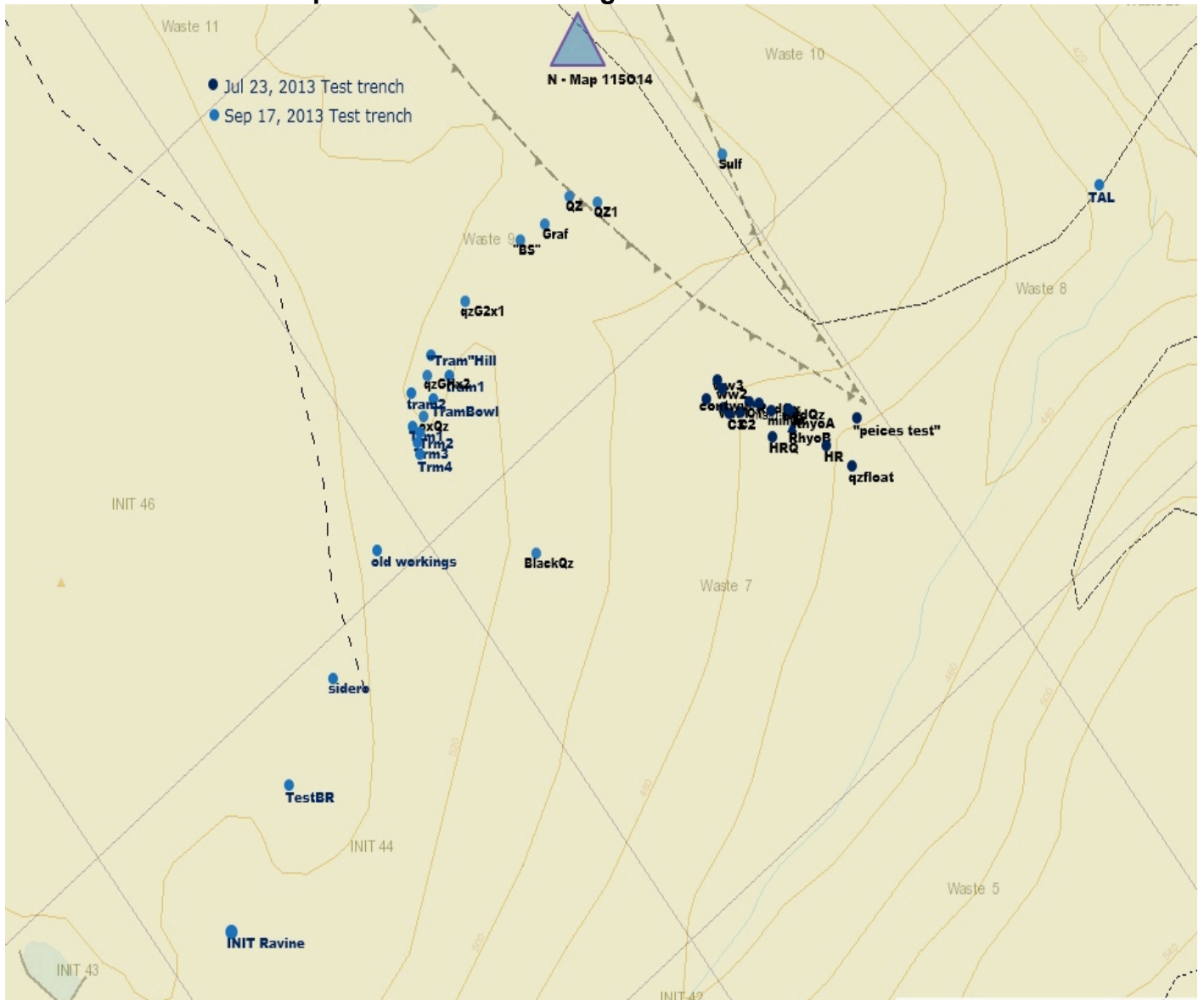
720

Investment Expenditure July 2013: \$10,000

## July 2013 Test Trenching Locations "Waste7 vein-main rock" area



## Sept. 2013 Test Trenching Locations Paradise Hill



**Appendix A – Gps Co-ordinates 2013  
2013 Assay Sample Locations**

Name	Zone	Easting	Northing	Altitude	
QV1A	07	V	0595344	7097042	
QV1B	07	V	0595351	7097043	477.9
QV1-2	07	V	0595356	7097038	
RedQz#4668985	07	V	0595349	7097034	
GZ1	07	V	0595422	7096688	444.4
GZ1 2	07	V	0595422	7096678	444.2

**2013 Test Trench Notes & Locations  
September 2013 Test Trenching Locations**

Name	Zone	Easting	Northing	Altitude	
WasteWest1	07	V	0595285	7097035	442.6
WW2	07	V	0595280	7097052	479.5
WW3	07	V	0595274	7097059	489.2
C1	07	V	0595310	7097044	
C2	07	V	0595303	7097034	482.2
C3A	07	V	0595302	7097031	470.0
C3B	07	V	0595291	7097030	489.8
CONTWV	07	V	0595264	7097041	484.0
MINOX	07	V	0595335	7097039	472.7
REDQZ	07	V	0595351	7097043	477.9
QVB	07	V	0595346	7097045	478.2
1Q13	07	V	0595332	7097043	477.6
2Q13	07	V	0595343	7097040	477.6
3Q13	07	V	0595340	7097048	474.9
RedQV1T	07	V	0595346	7097042	474.6
RQV1Q13	07	V	0595332	7097043	477.6
RQV213	07	V	0595343	7097040	477.6
3Q13	07	V	0595340	7097048	474.9
Pieces trench	07	V	0595428	7097045	456.9
redOxLine	07	V	0595321	7097044	
RhyoTrA	07	V	0595359	7097043	
RhyoTrEndB	07	V	0595359	7097028	
Sulf	07	V	0595251	7097263	509.0
BLACQV	07	V	0595101	7096878	520.3
BlackSchist	07	V	0595045	7097157	522.4
Graph	07	V	0595069	7097175	524.0
QZ	07	V	0595092	7097203	520.0
QZ1	07	V	0595123	7097201	519.4
QZG2X1	07	V	0594994	7097093	519.4
QZGHX2	07	V	0594962	7097022	519.1

**Application for Renewal Certificate July 23<sup>rd</sup>, 2013 Test Trench Notes**  
**Work Detail**  
**July 9 – July 18, 2013**  
**Quartz Claims – IN Grouping**  
**Waste7, 9 & 5**

July 9- Mobilization of Hoe (27C Rubber Track, John Deere, 2 ton) to Hester Creek and Waste7 vein site.

Digging to bedrock at W7-11 Location – **Pieces Pit**. Large chunks of rock exactly like “MainRock”. Assayed at 754 ppb Au when chipped from largest of the 10 pieces which are from ½ to 1.5 meters wide. Neuron Activation Acme Labs job# WHI12000989. (12 Nov. 2012 result).

99.5 meters and 90 degrees east of “MainRocs End”.

**Test pit Dimesions: 6 meters long x 2 meters wide x 2 meters deep.**

**Graphite wall to right continues under “Pieces”**. Exposed graphite appears to be highly altered Klondike Schist permeated with vivid red realgar staining indicating arsenopyrite. Schist fold is horizontal, indicating further metamorphism. Picture of realgar? “MainRock Floats” may have come downhill from the “MainRock” as further quartz of type not found at a depth of 2 meters.

July 10- **MinOx** Locations. Testing with hoe to bedrock. Test pit dimensions: **15 meters long x 5 meters wide x 5 meters deep on a NorthSouth Axis**. Bulk sample testing on horizons – Dereck’s sample taken for assay. **7 meters long x 4 meters wide x 5 meters deep on an EastWest Axis**. Main outcrop of mineralized highly altered quartz, schist & carbonate rock. Pic.

July 11- Slightly NorthEast of MinOx. **RedQuartz Locations**. Testing with hoe to bedrock. **Test pit dimensions: 2 side by side West Aligned test pits, each 4 meters long x 4 meters wide x 4 meters deep. 2 cross cutting red quartz veins**. Sample both veins and contacts for bulk testing. Peacock sheen? Assay.

July 12- **RhyoliteTrench Location**. Testing with hoe to bedrock. **Test pit dimensions: 20 meters long x 2 meters wide x 3 meters deep. Trench runs on a NorthSouth axis**. Wall of Rhyolite (light tuff) in contact with graphite & quartz/carbonates with sulfides.

July 13- **Cleaning fluff from top (west) of MainRock**. (South side where klk5 sample taken by Kinross geologist 2012). “Vein” is 2 meters wide. Bottom hanging wall contact is an altered graphite schist high in sulfide content.

**TopRock Location test pit dimensions: 2 meters long x 2 meters wide x 4 meters deep.**

TopCross(TopX) Location test pit dimensions: 3 meters long x 1.5 meters wide x 3 meters deep. Graphite & decomposed schist & rhyolite.

July 14- C1 continuation from TopCross to C2 end NorthEast axis. 15 meters long x 1.5 meters wide x 2 meters deep. High sulfide content in decomposing graphite schist. Quartz veinlets with arsenopyrite.

C3a-b Location. Test pit dimensions: 10 meters long x 1.5 meters wide x 1.5 meters deep. EastWest axis. Black shiny, scaly graphite. Rhyolite contact with the altered black schist. Light Brown & Dark Brown sulfide oxidations.

July 17- Looking for the veins continuation up the ravine to Paradise Hill.

**CONTWV Location** (Continuation of Waste Vein?). Directly west of RocEnd. Large float or intrusion of the same WasteVein Material: Quartz, graphite, arsenopyrite, sulfides and probably gold. Chip tested for assay testing. Permanent color marking samples along –quartz – border and graphite contacts- Along middle circumference of CONTWV rock every 1/5 meter along the 4.5 meter width. See testing pics. **Rock Dimensions: 2.3 meters top to bottom x 4.5 meters width.** 54.7 meters from “TopRock”. Shooting East 77 degrees.

July 18- Prospecting W5 2011 result of 366 ppbAu from rock sampled and assayed at AcmeLabs. 3 samples selected from location for retesting. Across Hester Creek on the hillside going up to Nugget Hill. 333 meters South-East of RocEnd (297degrees NW). Hand dug outcrop of Bull Quartz, ½ meter around. Broken Quartz continues down to the creek in contact with a black platy dense graphite. Nose abruptly drops 15 meters 85 meters before the creek **QNOSDP**.

### Appendix B

#### 2012-2011 Assay Result Sample Locations

(See Assessment Reports 2011 and 2012 for full assay certificates.)

1 & 5-2, 9 & 32gm/tonAU	07	V	0595317	7097040
2	07	V	0595309	7097045
4-10+gm/tonAU	07	V	0595311	7097047
6-10&12gm/tonAU	07	V	0595316	7096991
9	07	V	0595305	7097046
10- 3gm/tonAU	07	V	0595314	7097035
12- 1.39gm/tonAU	07	V	0595312	7097042
w7-754 & 610ppbAU(12)	07	V	0595428	7097045
W5 (12)	07	V	0595629	7096908
klk5- 8 & 9gm/tonAU	07	V	0595320	7097037
W7rNW (12)	07	V	0595316	7097046

#### 2012 recording of test pit work on Waste7 Vein.

Mathias MacDonel, (Junior Geologist), August 13<sup>th</sup> 2012, analysis of “WasteVein”

##### Test Pits 2012

“Main Rock”- “Big Boulder Quartz Vein”: Pyrite, chalcopyrite, arsenopyrite, oxidizing on surface. Quartz is white, clear, crystallized and fractured in areas. Vein cross cuts its graphite bedding on bottom, indicating a younger age than the graphitic occurrence. Graphite is also high in sulfides & other mineralization.

##### Recording Descriptions of Test Pits 1-5

###### 12m NW 310 long x 2m wide x 2m deep. SW side of “main rock”.

1 – Large “wall” of graphite containing: quartz veins up to 40 cm thick, veinlets of calcite & sulfuric quartz, pyrite cubes of brassy well-formed squares both in place and oxidized. Pockets of well formed arsenopyrite triangles, chalcopyrite, possible visible gold. **07V 0595338/7097036**

###### 3m long 90 degrees east x 1m wide x 1m deep

2 – This decomposing bedrock contains small white minerals that appear as qz/calcite or plagio. The aspect of the rock is like gabbro though it is hard to say if it is a gabbro, hard graphite or type of schist. The black minerals are foliated and easy to scratch. No magnetic minerals.

**07V 0595335/7097045**

###### 3 test pits each: 2m long North 50 degrees x 2m wide x 2m deep.

A – Graphite, black or greyish. A lot of sulfides, some in the graphite, some in quartz veinlets. Square sulfides of pyrite/chalcopyrite that are well formed and up to 5cm wide.

**B** – Veins & lenses of crispy, very fine-grained red/green/brown decomposing dyke that is still hard. Vein of up to 10cm running east-west, with a dip of 18degree to the east. Other veins are of calcite & quartz containing sulfides arsenopyrite and brassy colored well-formed pyrite cubes. Whole zone seems to have been “penetrated” by oxides.

**C** – Wall of Rhyolite. Seems to run in veins on either side of Quartz Vein. Seems to be younger and is of a light porous quality at contact with the graphite, indicating hydrothermal activity. May be younger than graphitic occurrence.

**7m long 85degrees east x 1m wide x 2m deep**

**3** – Around the quartz boulders on side of “ravine”. A big quartz vein (up to 1meter thick) running almost south-north with a dip 20degree to the east. Some mineralization close to the vein (arseno, py, cpy). A vivid red mineralization, opaque and oxidized is all through the quartz.

**07V 0595344/7097042**

**5m long 318 degrees NW x 2m wide x 2m deep**

**4** – Another of the same vein type 2 meters below 135 degrees SE of 1<sup>st</sup>. Same size and mineralization going in the same direction. Contacts of graphite on both sides containing discordant quartz veins & veinlets going in all directions through the older graphitically altered bedrock (chlorite schist?) **07V 0595356/7097038**

**5m long NW 340 x 1m wide x 1.5m deep**

**5** – Very altered graphite, with yellow/orange/brown/red/purple stains. Alterations. Near to a rhyolite zone with more of the same alterations and various quartz veins up to 50cm thick, going in various directions throughout.

**07V 595374/7097045**

**References:**

2002 Gold Potential Appraisal Map. Lowey, Deforest & Lipovsky. Stuart River Placer Project

EMR Yukon, online Mapping, Library and Min-file Catalogue

**Full 2013 Assay Certificates**

See PDF Attachment

Your P.O. #: 9126  
Your Project #: WHI15000003

**Attention: Susie Woo**

Acme Analytical Laboratories Ltd.  
9050 Shaughnessy Street  
Vancouver, BC  
Canada V6P 6E5

**Report Date: 2015/03/27**  
Report #: R3374115  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B533723**

**Received: 2015/02/25, 10:00**

Sample Matrix: SOLID  
# Samples Received: 60

<b>Analyses</b>	<b>Quantity</b>	<b>Date Extracted</b>	<b>Date Analyzed</b>	<b>Laboratory Method</b>	<b>Reference</b>
Trace Metals by Neutron Activation	60	N/A	2015/03/13	BQL SOP-00001	Neutron Activation

**Remarks:**

Becquerel is an ISO 17025 accredited laboratory for certain tests listed within the scope of accreditation. This test report shall not be reproduced, except in full, without written approval of Becquerel Laboratories Inc.  
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Simona Vatamanescu,  
Email: SVatamanescu@maxxam.ca  
Phone# (905)826-3080

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**RESULTS OF ANALYSES OF SOLID**

Maxxam ID		ZQ6831	ZQ6832	ZQ6833	ZQ6834	ZQ6835	ZQ6836	ZQ6837		
Sampling Date										
	Units	CHRYSA	CHRYSB	CHRYSC	CHRYSD	CHRYSE	CHRYSF	CHRYSG	RDL	QC Batch
Bromine	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Antimony (Sb)	ppm	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3933548
Arsenic (As)	ppm	171	169	166	202	185	163	156	0.5	3933548
Barium (Ba)	ppm	<50	<50	<50	<50	<50	<50	<50	50	3933548
Calcium (Ca)	ppm	<10000	<10000	<10000	<10000	<10000	<10000	<10000	10000	3933548
Cerium (Ce)	ppm	<3	<3	<3	<3	<3	<3	<3	3	3933548
Cesium (Cs)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Chromium (Cr)	ppm	<5	<5	<5	<5	<5	<5	<5	5	3933548
Cobalt (Co)	ppm	5	4	4	5	5	4	4	1	3933548
Europium (Eu)	ppm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3933548
Gold (Au)	ppm	0.005	0.006	0.005	0.005	0.006	0.006	0.004	0.002	3933548
Hafnium (Hf)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Iridium (Ir)	ppm	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	19000	18000	18000	20100	19300	17300	15700	100	3933548
Lanthanum (La)	ppm	1.1	0.8	0.9	1.1	1.1	0.8	0.8	0.5	3933548
Lutetium (Lu)	ppm	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	3933548
Mercury (Hg)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Neodymium (Nd)	ppm	<5	<5	<5	<5	<5	<5	<5	5	3933548
Nickel (Ni)	ppm	<100	<100	<100	<100	<100	<100	<100	100	3933548
Rubidium (Rb)	ppm	<15	<15	<15	<15	<15	<15	<15	15	3933548
Samarium (Sm)	ppm	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.1	3933548
Scandium (Sc)	ppm	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.1	3933548
Selenium (Se)	ppm	6	6	6	6	6	5	5	3	3933548
Silver (Ag)	ppm	<5	<5	<5	<5	<5	<5	<5	5	3933548
Sodium (Na)	ppm	220	210	220	190	220	180	150	100	3933548
Strontium (Sr)	ppm	<500	<500	<500	<500	<500	<500	<500	500	3933548
Tantalum (Ta)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Thorium (Th)	ppm	0.5	0.3	0.4	0.3	0.4	0.3	0.3	0.2	3933548
Tin (Sn)	ppm	<100	<100	<100	<100	<100	<100	<100	100	3933548
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Uranium (U)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Ytterbium (Yb)	ppm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3933548
Zinc (Zn)	ppm	<50	<50	<50	<50	<50	<50	<50	50	3933548

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**RESULTS OF ANALYSES OF SOLID**

Maxxam ID		ZQ6838	ZQ6839	ZQ6840	ZQ6841	ZQ6842	ZQ6843	ZQ6844		
Sampling Date										
	Units	CHRYSH	WQV1A	WQV1B	WQV1-2A	WQV1-2B	WQV1-2C	WQV1-2D	RDL	QC Batch
Bromine	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Antimony (Sb)	ppm	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.1	3933548
Arsenic (As)	ppm	178	32.0	34.0	10.0	10.0	10.0	10.0	0.5	3933548
Barium (Ba)	ppm	<50	<50	<50	<50	<50	<50	<50	50	3933548
Calcium (Ca)	ppm	<10000	<10000	<10000	<10000	<10000	<10000	<10000	10000	3933548
Cerium (Ce)	ppm	<3	<3	<3	<3	<3	<3	<3	3	3933548
Cesium (Cs)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Chromium (Cr)	ppm	<5	<5	<5	<5	<5	<5	<5	5	3933548
Cobalt (Co)	ppm	5	3	3	<1	<1	<1	<1	1	3933548
Europium (Eu)	ppm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	3933548
Gold (Au)	ppm	0.006	0.007	0.006	<0.002	<0.002	<0.002	<0.002	0.002	3933548
Hafnium (Hf)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Iridium (Ir)	ppm	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	19000	11900	12600	6500	6900	6400	6600	100	3933548
Lanthanum (La)	ppm	1.1	0.6	0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Lutetium (Lu)	ppm	<0.05	0.13	0.13	<0.05	<0.05	<0.05	<0.05	0.05	3933548
Mercury (Hg)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Neodymium (Nd)	ppm	<5	<5	<5	<5	<5	<5	<5	5	3933548
Nickel (Ni)	ppm	<100	<100	<100	<100	<100	<100	<100	100	3933548
Rubidium (Rb)	ppm	<15	<15	<15	<15	<15	<15	<15	15	3933548
Samarium (Sm)	ppm	0.3	0.2	0.2	<0.1	<0.1	<0.1	<0.1	0.1	3933548
Scandium (Sc)	ppm	0.4	0.5	0.6	0.2	0.2	0.2	0.2	0.1	3933548
Selenium (Se)	ppm	7	5	5	<3	<3	<3	<3	3	3933548
Silver (Ag)	ppm	<5	<5	<5	<5	<5	<5	<5	5	3933548
Sodium (Na)	ppm	190	110	100	<100	<100	<100	<100	100	3933548
Strontium (Sr)	ppm	<500	<500	<500	<500	<500	<500	<500	500	3933548
Tantalum (Ta)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Thorium (Th)	ppm	0.3	0.6	0.6	0.4	0.4	0.4	0.4	0.2	3933548
Tin (Sn)	ppm	<100	<100	<100	<100	<100	<100	<100	100	3933548
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Uranium (U)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Ytterbium (Yb)	ppm	<0.2	0.4	0.4	<0.2	<0.2	<0.2	<0.2	0.2	3933548
Zinc (Zn)	ppm	<50	<50	<50	<50	<50	<50	<50	50	3933548

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**RESULTS OF ANALYSES OF SOLID**

Maxxam ID		ZQ6845	ZQ6846	ZQ6847	ZQ6848	ZQ6849	ZQ6850	ZQ6851		
Sampling Date										
	Units	WQV1-2E	WQV1-2F	WQV1-BA	WQV1-BB	WQV1-BC	WQV1-BD	WQV3A	RDL	QC Batch
Bromine	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Antimony (Sb)	ppm	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3933548
Arsenic (As)	ppm	10.0	9.1	19.0	20.0	21.0	18.0	5.3	0.5	3933548
Barium (Ba)	ppm	<50	<50	52	<50	<50	<50	180	50	3933548
Calcium (Ca)	ppm	<10000	<10000	<10000	<10000	<10000	<10000	20000	10000	3933548
Cerium (Ce)	ppm	<3	<3	<3	3	<3	<3	6	3	3933548
Cesium (Cs)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Chromium (Cr)	ppm	<5	<5	<5	6	<5	<5	7	5	3933548
Cobalt (Co)	ppm	<1	<1	4	4	4	3	9	1	3933548
Europium (Eu)	ppm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	0.2	3933548
Gold (Au)	ppm	<0.002	<0.002	0.027	0.021	0.026	0.021	0.374	0.002	3933548
Hafnium (Hf)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Iridium (Ir)	ppm	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	6000	5700	13600	14700	14500	12400	20500	100	3933548
Lanthanum (La)	ppm	<0.5	<0.5	1.0	1.2	1.0	0.8	1.9	0.5	3933548
Lutetium (Lu)	ppm	<0.05	<0.05	0.16	0.18	0.19	0.16	1.40	0.05	3933548
Mercury (Hg)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Neodymium (Nd)	ppm	<5	<5	<5	<5	<5	<5	<5	5	3933548
Nickel (Ni)	ppm	<100	<100	<100	<100	<100	<100	<100	100	3933548
Rubidium (Rb)	ppm	<15	<15	<15	<15	<15	<15	<15	15	3933548
Samarium (Sm)	ppm	<0.1	<0.1	0.3	0.4	0.4	0.3	0.9	0.1	3933548
Scandium (Sc)	ppm	0.2	0.2	0.9	1.0	1.0	0.8	3.6	0.1	3933548
Selenium (Se)	ppm	<3	<3	<3	<3	<3	<3	4	3	3933548
Silver (Ag)	ppm	<5	<5	<5	<5	<5	<5	10	5	3933548
Sodium (Na)	ppm	<100	<100	160	140	180	140	320	100	3933548
Strontium (Sr)	ppm	<500	<500	<500	<500	<500	<500	<500	500	3933548
Tantalum (Ta)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Thorium (Th)	ppm	0.4	0.3	1.1	1.2	1.1	1.2	1.6	0.2	3933548
Tin (Sn)	ppm	<100	<100	<100	<100	<100	<100	<100	100	3933548
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Uranium (U)	ppm	<0.5	<0.5	0.5	0.5	0.5	0.6	1.6	0.5	3933548
Ytterbium (Yb)	ppm	<0.2	<0.2	0.6	0.7	0.7	0.6	5.5	0.2	3933548
Zinc (Zn)	ppm	<50	<50	<50	<50	<50	<50	<50	50	3933548

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**RESULTS OF ANALYSES OF SOLID**

Maxxam ID		ZQ6852		ZQ6853		ZQ6854		ZQ6855		ZQ6856		
Sampling Date												
	Units	WQV3B	RDL	WQV3C	RDL	PURPJA	RDL	PURJSB	RDL	PURJSC	RDL	QC Batch
Bromine	ppm	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	3933548
Antimony (Sb)	ppm	<0.1	0.1	<0.1	0.1	0.3	0.1	0.2	0.1	0.2	0.1	3933548
Arsenic (As)	ppm	5.0	0.5	3.8	0.5	19.0	0.5	19.0	0.5	22.0	0.5	3933548
Barium (Ba)	ppm	150	50	140	50	1500	50	1600	50	1600	50	3933548
Calcium (Ca)	ppm	21000	10000	20000	10000	<10000	10000	<10000	10000	<10000	10000	3933548
Cerium (Ce)	ppm	6	3	5	3	110	3	110	3	110	3	3933548
Cesium (Cs)	ppm	<1	1	<1	1	7	1	6	1	6	1	3933548
Chromium (Cr)	ppm	7	5	6	5	98	5	99	5	98	5	3933548
Cobalt (Co)	ppm	9	1	8	1	19	1	18	1	19	1	3933548
Europium (Eu)	ppm	0.4	0.2	0.5	0.2	1.9	0.2	1.9	0.2	2.1	0.2	3933548
Gold (Au)	ppm	0.434	0.002	0.306	0.002	<0.002	0.002	0.008	0.002	<0.002	0.002	3933548
Hafnium (Hf)	ppm	<1	1	<1	1	6	1	7	1	7	1	3933548
Iridium (Ir)	ppm	<0.005	0.005	<0.005	0.005	<0.005	0.005	<0.005	0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	19800	100	18400	100	46400	100	46400	100	47700	100	3933548
Lanthanum (La)	ppm	1.8	0.5	1.6	0.5	47.0	0.5	47.0	0.5	49.0	0.5	3933548
Lutetium (Lu)	ppm	1.70	0.05	1.50	0.05	0.55	0.05	0.56	0.05	0.59	0.05	3933548
Mercury (Hg)	ppm	<1	1	<1	1	<1	1	<1	1	<1	1	3933548
Molybdenum (Mo)	ppm	<2.7	2.7	<2.4	2.4	<3.2	3.2	<2.7	2.7	<5.1	5.1	3933548
Neodymium (Nd)	ppm	5	5	<5	5	41	5	41	5	41	5	3933548
Nickel (Ni)	ppm	<100	100	<100	100	<100	100	<100	100	<100	100	3933548
Rubidium (Rb)	ppm	<15	15	<15	15	150	15	140	15	140	15	3933548
Samarium (Sm)	ppm	0.9	0.1	0.8	0.1	9.2	0.1	9.3	0.1	10.0	0.1	3933548
Scandium (Sc)	ppm	3.8	0.1	3.4	0.1	19.6	0.1	19.8	0.1	20.2	0.1	3933548
Selenium (Se)	ppm	<3	3	4	3	<3	3	5	3	7	3	3933548
Silver (Ag)	ppm	11	5	10	5	<5	5	<5	5	<5	5	3933548
Sodium (Na)	ppm	300	100	280	100	10000	100	10000	100	10100	100	3933548
Strontium (Sr)	ppm	<500	500	<500	500	<500	500	<500	500	<500	500	3933548
Tantalum (Ta)	ppm	<0.5	0.5	<0.5	0.5	1.9	0.5	1.4	0.5	0.9	0.5	3933548
Terbium (Tb)	ppm	<0.5	0.5	<0.5	0.5	1.3	0.5	1.3	0.5	1.3	0.5	3933548
Thorium (Th)	ppm	1.6	0.2	1.3	0.2	14.0	0.2	14.0	0.2	15.0	0.2	3933548
Tin (Sn)	ppm	<100	100	<100	100	<100	100	<100	100	<100	100	3933548
Tungsten (W)	ppm	<1	1	<1	1	24	1	23	1	24	1	3933548
Uranium (U)	ppm	1.4	0.5	1.3	0.5	3.7	0.5	3.8	0.5	3.5	0.5	3933548
Ytterbium (Yb)	ppm	6.2	0.2	5.5	0.2	3.6	0.2	3.7	0.2	3.6	0.2	3933548
Zinc (Zn)	ppm	<50	50	<50	50	120	50	110	50	110	50	3933548

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**RESULTS OF ANALYSES OF SOLID**

Maxxam ID		ZQ6857	ZQ6858	ZQ6859	ZQ6860		ZQ6861		ZQ6862		
Sampling Date											
	Units	PURPQA	PURPQB	PURPQC	PURPQD	RDL	WAGABA	RDL	WAGABB	RDL	QC Batch
Bromine	ppm	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	3933548
Antimony (Sb)	ppm	<0.1	<0.1	0.1	0.1	0.1	0.2	0.1	<0.1	0.1	3933548
Arsenic (As)	ppm	25.0	24.0	24.0	29.0	0.5	17.0	0.5	16.0	0.5	3933548
Barium (Ba)	ppm	140	140	120	160	50	130	50	77	50	3933548
Calcium (Ca)	ppm	14000	14000	14000	13000	10000	37000	10000	32000	10000	3933548
Cerium (Ce)	ppm	6	6	6	7	3	44	3	46	3	3933548
Cesium (Cs)	ppm	<1	<1	<1	<1	1	<1	1	<1	1	3933548
Chromium (Cr)	ppm	8	7	8	11	5	60	5	60	5	3933548
Cobalt (Co)	ppm	11	10	10	11	1	20	1	20	1	3933548
Europium (Eu)	ppm	0.3	0.3	0.2	0.3	0.2	1.4	0.2	1.4	0.2	3933548
Gold (Au)	ppm	0.150	0.086	0.075	0.089	0.002	0.005	0.002	0.006	0.002	3933548
Hafnium (Hf)	ppm	<1	<1	<1	<1	1	5	1	5	1	3933548
Iridium (Ir)	ppm	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	27800	27900	26900	29700	100	35300	100	34000	100	3933548
Lanthanum (La)	ppm	2.3	2.3	2.1	2.7	0.5	20.0	0.5	19.0	0.5	3933548
Lutetium (Lu)	ppm	1.00	1.00	1.00	1.10	0.05	0.42	0.05	0.42	0.05	3933548
Mercury (Hg)	ppm	<1	<1	<1	<1	1	<1	1	<1	1	3933548
Molybdenum (Mo)	ppm	<1	<1	<1	<1	1	<4.2	4.2	<4.4	4.4	3933548
Neodymium (Nd)	ppm	<5	<5	<5	<5	5	18	5	18	5	3933548
Nickel (Ni)	ppm	<100	<100	<100	<100	100	<100	100	<100	100	3933548
Rubidium (Rb)	ppm	<15	<15	<15	<15	15	<15	15	<15	15	3933548
Samarium (Sm)	ppm	0.9	0.9	0.8	0.9	0.1	4.8	0.1	4.8	0.1	3933548
Scandium (Sc)	ppm	3.2	3.2	2.9	3.2	0.1	4.1	0.1	3.9	0.1	3933548
Selenium (Se)	ppm	7	6	7	7	3	4	3	<3	3	3933548
Silver (Ag)	ppm	6	6	7	<5	5	<5	5	<5	5	3933548
Sodium (Na)	ppm	490	440	410	550	100	50200	100	49600	100	3933548
Strontium (Sr)	ppm	<500	<500	<500	<500	500	<500	500	<500	500	3933548
Tantalum (Ta)	ppm	<0.5	<0.5	<0.5	<0.5	0.5	2.0	0.5	2.2	0.5	3933548
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	<0.5	0.5	1.3	0.5	1.0	0.5	3933548
Thorium (Th)	ppm	2.1	2.1	1.9	2.3	0.2	8.0	0.2	7.9	0.2	3933548
Tin (Sn)	ppm	<100	<100	<100	<100	100	<100	100	<100	100	3933548
Tungsten (W)	ppm	<1	<1	<1	<1	1	6	1	4	1	3933548
Uranium (U)	ppm	1.3	1.4	1.3	1.4	0.5	5.5	0.5	5.3	0.5	3933548
Ytterbium (Yb)	ppm	3.9	3.8	3.6	4.0	0.2	2.6	0.2	2.6	0.2	3933548
Zinc (Zn)	ppm	<50	<50	<50	<50	50	58	50	82	50	3933548

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**RESULTS OF ANALYSES OF SOLID**

Maxxam ID		ZQ6865		ZQ6868	ZQ6873	ZQ6877	ZQ6880	ZQ6882		
Sampling Date										
	Units	WAGABC	RDL	GZ1A	GZ1B	GZ1C	GZ2A	GZ2B	RDL	QC Batch
Bromine	ppm	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Antimony (Sb)	ppm	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.1	3933548
Arsenic (As)	ppm	18.0	0.5	148	158	151	57.8	64.0	0.5	3933548
Barium (Ba)	ppm	140	50	450	480	500	460	530	50	3933548
Calcium (Ca)	ppm	30000	10000	17000	19000	19000	110000	120000	10000	3933548
Cerium (Ce)	ppm	47	3	15	16	18	18	20	3	3933548
Cesium (Cs)	ppm	<1	1	1	1	<1	<1	<1	1	3933548
Chromium (Cr)	ppm	60	5	22	25	22	10	12	5	3933548
Cobalt (Co)	ppm	21	1	10	11	10	6	6	1	3933548
Europium (Eu)	ppm	1.6	0.2	0.6	0.6	0.5	0.8	0.8	0.2	3933548
Gold (Au)	ppm	<0.002	0.002	0.004	0.007	<0.002	<0.002	<0.002	0.002	3933548
Hafnium (Hf)	ppm	5	1	1	1	1	1	1	1	3933548
Iridium (Ir)	ppm	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	36700	100	30400	31800	31600	36400	37400	100	3933548
Lanthanum (La)	ppm	20.0	0.5	7.4	7.6	7.4	9.3	10.0	0.5	3933548
Lutetium (Lu)	ppm	0.43	0.05	0.25	0.26	0.25	0.27	0.28	0.05	3933548
Mercury (Hg)	ppm	<1	1	<1	<1	<1	<1	<1	1	3933548
Molybdenum (Mo)	ppm	<4.4	4.4	22	20	23	9	9	1	3933548
Neodymium (Nd)	ppm	17	5	10	10	9	8	9	5	3933548
Nickel (Ni)	ppm	<100	100	<100	<100	<100	<100	<100	100	3933548
Rubidium (Rb)	ppm	<15	15	26	26	17	15	17	15	3933548
Samarium (Sm)	ppm	4.9	0.1	2.1	2.2	2.1	2.2	2.2	0.1	3933548
Scandium (Sc)	ppm	4.3	0.1	3.5	3.8	3.7	3.5	3.7	0.1	3933548
Selenium (Se)	ppm	6	3	4	4	4	<3	<3	3	3933548
Silver (Ag)	ppm	<5	5	<5	<5	<5	<5	<5	5	3933548
Sodium (Na)	ppm	50600	100	7600	8200	8000	2000	2100	100	3933548
Strontium (Sr)	ppm	<500	500	<500	<500	<500	<500	<500	500	3933548
Tantalum (Ta)	ppm	2.0	0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.5	3933548
Terbium (Tb)	ppm	0.9	0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Thorium (Th)	ppm	8.4	0.2	2.4	2.3	2.3	2.5	2.6	0.2	3933548
Tin (Sn)	ppm	<100	100	<100	<100	<100	<100	<100	100	3933548
Tungsten (W)	ppm	5	1	2	<1	<1	<1	<1	1	3933548
Uranium (U)	ppm	5.2	0.5	1.7	2.0	1.6	2.6	2.4	0.5	3933548
Ytterbium (Yb)	ppm	2.6	0.2	1.5	1.4	1.5	1.5	1.5	0.2	3933548
Zinc (Zn)	ppm	71	50	<50	<50	50	98	96	50	3933548
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**RESULTS OF ANALYSES OF SOLID**

Maxxam ID		ZQ6883	ZQ6884	ZQ6885	ZQ6886	ZQ6887	ZQ6888	ZQ6889		
Sampling Date										
	Units	GZ2C	GZ2D	GZ2E	GZ2F	GZ2G	GZ2H	GZ2I	RDL	QC Batch
Bromine	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Antimony (Sb)	ppm	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3933548
Arsenic (As)	ppm	54.5	56.2	68.2	64.4	54.0	62.7	61.1	0.5	3933548
Barium (Ba)	ppm	460	540	510	500	470	520	490	50	3933548
Calcium (Ca)	ppm	110000	120000	120000	110000	120000	120000	120000	10000	3933548
Cerium (Ce)	ppm	18	18	19	18	18	21	18	3	3933548
Cesium (Cs)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Chromium (Cr)	ppm	11	12	12	12	12	15	11	5	3933548
Cobalt (Co)	ppm	6	6	6	7	6	7	6	1	3933548
Europium (Eu)	ppm	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.2	3933548
Gold (Au)	ppm	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	3933548
Hafnium (Hf)	ppm	1	1	1	1	1	1	1	1	3933548
Iridium (Ir)	ppm	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	35800	37400	38700	37600	35700	38700	36300	100	3933548
Lanthanum (La)	ppm	9.0	9.5	10.0	10.0	9.3	10.0	9.0	0.5	3933548
Lutetium (Lu)	ppm	0.26	0.27	0.28	0.27	0.27	0.30	0.27	0.05	3933548
Mercury (Hg)	ppm	<1	<1	<1	<1	<1	<1	<1	1	3933548
Molybdenum (Mo)	ppm	7	9	11	10	9	12	10	1	3933548
Neodymium (Nd)	ppm	8	9	11	6	10	12	8	5	3933548
Nickel (Ni)	ppm	<100	<100	<100	<100	<100	<100	<100	100	3933548
Rubidium (Rb)	ppm	17	<15	<15	<15	15	16	16	15	3933548
Samarium (Sm)	ppm	2.1	2.2	2.3	2.2	2.2	2.4	2.2	0.1	3933548
Scandium (Sc)	ppm	3.6	3.8	3.8	3.7	3.6	3.8	3.6	0.1	3933548
Selenium (Se)	ppm	<3	<3	<3	<3	<3	<3	<3	3	3933548
Silver (Ag)	ppm	<5	<5	<5	<5	<5	<5	<5	5	3933548
Sodium (Na)	ppm	2000	2000	2000	2000	2000	2000	2000	100	3933548
Strontium (Sr)	ppm	<500	<500	<500	<500	<500	<500	<500	500	3933548
Tantalum (Ta)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	3933548
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	0.5	3933548
Thorium (Th)	ppm	2.4	2.6	2.7	2.7	2.6	2.8	2.7	0.2	3933548
Tin (Sn)	ppm	<100	<100	<100	<100	<100	<100	<100	100	3933548
Tungsten (W)	ppm	<1	<1	<1	<1	1	2	<1	1	3933548
Uranium (U)	ppm	2.3	2.4	2.6	2.3	2.6	2.5	2.3	0.5	3933548
Ytterbium (Yb)	ppm	1.5	1.5	1.6	1.6	1.5	1.7	1.6	0.2	3933548
Zinc (Zn)	ppm	92	110	93	100	98	100	100	50	3933548

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**RESULTS OF ANALYSES OF SOLID**

Maxxam ID		ZQ6890	ZQ6891	ZQ6892	ZQ6893		ZQ6894		ZQ6895		
Sampling Date											
	Units	GZ2J	GZ2K	GZ2L	NUG1A	RDL	NUG1B	RDL	NUG1C	RDL	QC Batch
Bromine	ppm	<0.5	<0.5	<0.5	<0.5	0.5	<1	1	<0.5	0.5	3933548
Antimony (Sb)	ppm	<0.1	<0.1	<0.1	1.6	0.1	1.6	0.1	1.4	0.1	3933548
Arsenic (As)	ppm	55.2	57.3	65.7	118	0.5	128	0.5	111	0.5	3933548
Barium (Ba)	ppm	480	480	460	8420	50	8420	50	8530	50	3933548
Calcium (Ca)	ppm	110000	120000	120000	16000	10000	19000	10000	15000	10000	3933548
Cerium (Ce)	ppm	18	19	18	29	3	31	3	27	3	3933548
Cesium (Cs)	ppm	<1	<1	<1	8	1	7	1	8	1	3933548
Chromium (Cr)	ppm	12	11	10	29	5	35	5	27	5	3933548
Cobalt (Co)	ppm	6	6	6	98	1	110	1	99	1	3933548
Europium (Eu)	ppm	0.7	0.7	0.7	0.8	0.2	1.0	0.2	1.0	0.2	3933548
Gold (Au)	ppm	<0.002	<0.002	<0.002	0.012	0.002	0.009	0.002	0.008	0.002	3933548
Hafnium (Hf)	ppm	1	1	2	2	1	2	1	2	1	3933548
Iridium (Ir)	ppm	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	36200	36500	37100	193000	100	204000	100	184000	100	3933548
Lanthanum (La)	ppm	8.8	9.3	9.2	14.0	0.5	15.0	0.5	14.0	0.5	3933548
Lutetium (Lu)	ppm	0.26	0.29	0.28	0.68	0.05	0.68	0.05	0.64	0.05	3933548
Mercury (Hg)	ppm	<1	<1	<1	<1	1	<1	1	<1	1	3933548
Molybdenum (Mo)	ppm	9	10	10	189	1	178	1	188	1	3933548
Neodymium (Nd)	ppm	7	10	9	10	5	13	5	8	5	3933548
Nickel (Ni)	ppm	<100	<100	<100	200	100	370	100	230	100	3933548
Rubidium (Rb)	ppm	16	17	15	64	15	50	15	59	15	3933548
Samarium (Sm)	ppm	2.2	2.2	2.1	2.8	0.1	3.0	0.1	2.8	0.1	3933548
Scandium (Sc)	ppm	3.6	3.6	3.7	5.5	0.1	6.0	0.1	5.4	0.1	3933548
Selenium (Se)	ppm	<3	<3	<3	<3	3	<3	3	<3	3	3933548
Silver (Ag)	ppm	<5	<5	<5	<5	5	<5	5	7	5	3933548
Sodium (Na)	ppm	2100	2100	2000	1900	100	2000	100	1800	100	3933548
Strontium (Sr)	ppm	<500	<500	<500	<500	500	<500	500	<500	500	3933548
Tantalum (Ta)	ppm	<0.5	<0.5	<0.5	<0.5	0.5	0.7	0.5	<0.5	0.5	3933548
Terbium (Tb)	ppm	<0.5	<0.5	0.5	1.0	0.5	0.7	0.5	1.1	0.5	3933548
Thorium (Th)	ppm	2.4	2.7	2.7	4.9	0.2	5.5	0.2	4.7	0.2	3933548
Tin (Sn)	ppm	<100	<100	<100	<100	100	<100	100	<100	100	3933548
Tungsten (W)	ppm	2	<1	<1	11	1	13	1	11	1	3933548
Uranium (U)	ppm	2.0	2.4	3.4	32.0	0.5	36.0	0.5	32.0	0.5	3933548
Ytterbium (Yb)	ppm	1.5	1.6	1.6	3.6	0.2	3.7	0.2	3.5	0.2	3933548
Zinc (Zn)	ppm	100	100	94	1700	50	1700	50	1700	50	3933548

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**RESULTS OF ANALYSES OF SOLID**

Maxxam ID		ZQ6896		ZQ6897	ZQ6898	ZQ6899		ZQ6900		
Sampling Date										
	Units	NUG1D	RDL	NUG2A	NUG2B	NUG2C	RDL	NUG2D	RDL	QC Batch
Bromine	ppm	<0.5	0.5	<1.4	<1.4	<1.4	1.4	<1.5	1.5	3933548
Antimony (Sb)	ppm	1.6	0.1	2.9	2.8	3.0	0.1	2.8	0.1	3933548
Arsenic (As)	ppm	122	0.5	210	218	203	0.5	217	0.5	3933548
Barium (Ba)	ppm	8110	50	6130	6430	5990	50	6260	50	3933548
Calcium (Ca)	ppm	21000	10000	27000	24000	27000	10000	30000	10000	3933548
Cerium (Ce)	ppm	31	3	38	33	47	3	37	3	3933548
Cesium (Cs)	ppm	8	1	11	11	10	1	11	1	3933548
Chromium (Cr)	ppm	32	5	43	42	45	5	41	5	3933548
Cobalt (Co)	ppm	104	1	387	419	383	1	408	1	3933548
Europium (Eu)	ppm	1.1	0.2	1.3	1.2	1.3	0.2	1.1	0.2	3933548
Gold (Au)	ppm	2.74	0.002	0.010	0.012	0.020	0.002	5.68	0.002	3933548
Hafnium (Hf)	ppm	2	1	3	3	3	1	3	1	3933548
Iridium (Ir)	ppm	<0.005	0.005	<0.005	<0.005	<0.005	0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	196000	100	291000	290000	281000	100	291000	100	3933548
Lanthanum (La)	ppm	15.0	0.5	24.0	24.0	23.0	0.5	24.0	0.5	3933548
Lutetium (Lu)	ppm	0.66	0.05	0.53	0.50	0.51	0.05	0.50	0.05	3933548
Mercury (Hg)	ppm	<1	1	<1	<1	<1	1	<1	1	3933548
Molybdenum (Mo)	ppm	177	1	227	255	240	1	235	1	3933548
Neodymium (Nd)	ppm	10	5	19	21	16	5	14	5	3933548
Nickel (Ni)	ppm	260	100	430	380	460	100	290	100	3933548
Rubidium (Rb)	ppm	56	15	65	79	83	15	82	15	3933548
Samarium (Sm)	ppm	2.9	0.1	3.6	3.7	3.6	0.1	3.7	0.1	3933548
Scandium (Sc)	ppm	5.9	0.1	8.1	8.0	8.0	0.1	8.3	0.1	3933548
Selenium (Se)	ppm	<3	3	<3	<3	<3	3	<3	3	3933548
Silver (Ag)	ppm	7	5	17	22	21	5	26	5	3933548
Sodium (Na)	ppm	2000	100	1700	1600	1600	100	1800	100	3933548
Strontium (Sr)	ppm	<500	500	<500	<500	<500	500	<500	500	3933548
Tantalum (Ta)	ppm	<0.5	0.5	0.5	0.7	0.6	0.5	1.1	0.5	3933548
Terbium (Tb)	ppm	0.9	0.5	1.0	1.5	1.3	0.5	1.4	0.5	3933548
Thorium (Th)	ppm	5.2	0.2	6.4	6.0	6.6	0.2	6.2	0.2	3933548
Tin (Sn)	ppm	<100	100	<100	<100	<100	100	<100	100	3933548
Tungsten (W)	ppm	11	1	11	10	11	1	9	1	3933548
Uranium (U)	ppm	33.0	0.5	47.0	47.0	45.0	0.5	47.0	0.5	3933548
Ytterbium (Yb)	ppm	3.6	0.2	3.4	3.3	3.4	0.2	3.1	0.2	3933548
Zinc (Zn)	ppm	1700	50	1600	1600	1600	50	1600	50	3933548
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**RESULTS OF ANALYSES OF SOLID**

Maxxam ID		ZQ6901		ZQ6902		ZQ6903		ZQ6904		
Sampling Date										
	Units	NUG2E	RDL	NUG2F	RDL	NUG2G	RDL	NUG2H	RDL	QC Batch
Bromine	ppm	<1.3	1.3	<1.5	1.5	<1.5	1.5	<1.4	1.4	3933548
Antimony (Sb)	ppm	2.8	0.1	2.9	0.1	2.9	0.1	2.7	0.1	3933548
Arsenic (As)	ppm	203	0.5	220	0.5	216	0.5	209	0.5	3933548
Barium (Ba)	ppm	5870	50	6580	50	6180	50	6110	50	3933548
Calcium (Ca)	ppm	27000	10000	25000	10000	27000	10000	28000	10000	3933548
Cerium (Ce)	ppm	42	3	39	3	49	3	48	3	3933548
Cesium (Cs)	ppm	9	1	10	1	10	1	11	1	3933548
Chromium (Cr)	ppm	42	5	43	5	47	5	49	5	3933548
Cobalt (Co)	ppm	375	1	417	1	409	1	380	1	3933548
Europium (Eu)	ppm	1.3	0.2	1.3	0.2	1.5	0.2	1.1	0.2	3933548
Gold (Au)	ppm	0.012	0.002	0.014	0.002	<0.009	0.009	0.010	0.002	3933548
Hafnium (Hf)	ppm	3	1	3	1	3	1	3	1	3933548
Iridium (Ir)	ppm	<0.005	0.005	<0.005	0.005	<0.005	0.005	<0.005	0.005	3933548
Iron (Fe)	ppm	280000	100	295000	100	292000	100	292000	100	3933548
Lanthanum (La)	ppm	22.0	0.5	24.0	0.5	24.0	0.5	24.0	0.5	3933548
Lutetium (Lu)	ppm	0.52	0.05	0.53	0.05	0.55	0.05	0.60	0.05	3933548
Mercury (Hg)	ppm	<1	1	<1	1	<1	1	<1	1	3933548
Molybdenum (Mo)	ppm	230	1	254	1	254	1	228	1	3933548
Neodymium (Nd)	ppm	13	5	11	5	18	5	18	5	3933548
Nickel (Ni)	ppm	430	100	470	100	450	100	360	100	3933548
Rubidium (Rb)	ppm	78	15	88	15	97	15	97	15	3933548
Samarium (Sm)	ppm	3.4	0.1	3.7	0.1	3.7	0.1	3.7	0.1	3933548
Scandium (Sc)	ppm	7.8	0.1	8.3	0.1	8.2	0.1	8.3	0.1	3933548
Selenium (Se)	ppm	<3	3	<3	3	<3	3	<3	3	3933548
Silver (Ag)	ppm	22	5	25	5	30	5	19	5	3933548
Sodium (Na)	ppm	1600	100	1800	100	1800	100	1600	100	3933548
Strontium (Sr)	ppm	<500	500	<500	500	<500	500	<500	500	3933548
Tantalum (Ta)	ppm	0.9	0.5	0.6	0.5	0.7	0.5	0.9	0.5	3933548
Terbium (Tb)	ppm	0.9	0.5	1.0	0.5	1.6	0.5	1.2	0.5	3933548
Thorium (Th)	ppm	5.9	0.2	6.8	0.2	6.4	0.2	6.4	0.2	3933548
Tin (Sn)	ppm	<100	100	<100	100	<100	100	<100	100	3933548
Tungsten (W)	ppm	7	1	13	1	9	1	10	1	3933548
Uranium (U)	ppm	45.0	0.5	48.0	0.5	46.0	0.5	46.0	0.5	3933548
Ytterbium (Yb)	ppm	3.2	0.2	3.4	0.2	3.5	0.2	3.5	0.2	3933548
Zinc (Zn)	ppm	1600	50	1700	50	1700	50	1600	50	3933548
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										

**GENERAL COMMENTS**

Mo results are interfered with by Mo production from U fission.  
Some samples have elevated detection limits due to elevated Ba and Fe..

**Results relate only to the items tested.**

Report Date: 2015/03/27

Acme Analytical Laboratories Ltd.  
Client Project #: WHI15000003  
Your P.O. #: 9126

**VALIDATION SIGNATURE PAGE**

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Steven Simpson, Becquerel

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.