

Geochemical Report  
On The  
Friday Property  
Fri-1 to 8 YC61144 to YC61151  
Fri-9 to 10 YC61156 to YC61157  
Work Period September 7<sup>th</sup> to September 9<sup>th</sup> 2010

Located In  
Dawson Mining District  
On  
NTS 115-O-15  
63° 47' Latitude, 138° 54' Longitude

By  
Bernie Kreft

January 24<sup>th</sup>, 2011

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**Location** - The Friday Project is located in the Dawson Mining District on NTS mapsheet 115-O-15 at approximately 63° 47' north and 138° 54' east. The area evaluated occurs within the Sulphur Creek drainage basin in the vicinity of left limit tributary Friday Gulch.

**Claim Status Table**

Claim Name	Claim Number	Expiry Date
Fri 1-8	YC61144 to YC61151	2011 Sept 25*
Fri 9-10	YC61156 to YC61157	2011 Sept 25*

\* pending acceptance of this report by the Dawson Mining Recorder

**Access** - Access was achieved by truck from Dawson via the Hunker Creek road and the Sulphur Creek road, a one way distance of about 48 kilometres with a travel time of about 40 minutes.

**Topography And Vegetation** – The property lies within the un-glaciated Klondike Plateau, which is characterized by low rolling hills dissected by deeply incised stream valleys. This region experienced strong surficial weathering during the early to mid-Tertiary; as a result, natural bedrock exposures are rare, and generally restricted to steep slopes, with the effects of surface weathering extending to depths of as much as 80 metres or more. Overburden and regolithic material appears to average approximately 1.0 metre in thickness, but is certainly deeper along the east bank of Sulphur Creek. South facing slopes are generally snow free from early May, with frost leaving the ground by the middle to end of May. North facing slopes are generally free of snow by mid to end of May, with permafrost often remaining year-round. The property is below tree line, with vegetative cover consisting of variable amounts of spruce, poplar, alder and brush, with brush and stunted spruce trees predominating on north facing slopes, higher elevations and in areas of permafrost or poor drainage, while south facing slopes are generally covered by more mature stands of spruce or poplar.

The Sulphur Creek and Friday Gulch valley bottoms are covered by recent placer mining tailings dating from 1950's era dredging and mechanized mining efforts from 1978 onwards. Mining within the claims area is ongoing as of the date of writing.

**History And Previous Work** - Exploration for the source of the placer gold in the Klondike has been of an ebb and flow nature since 1898. Although numerous significant discoveries such as Lone Star and Hunker Dome have been made, the source of the majority of the placer gold remains an enigma. This is due to thick overburden, abundant vegetative cover and a variable thickness of regolithic material rendering historical methods of prospecting of limited use and effect. Exploration in the beds of placer mined streams is even more difficult due to the presence of thick layers of disturbed gravel and muck rendering silt and soil sampling ineffective, groundwater flow issues limiting the effectiveness of trenching, as well as a constantly changing surficial environment as placer mining weaves up and down the valleys. This has led to a situation where almost all of the known hardrock showings are located on ridge crests or hilltops even though streambeds are a logical place to explore for a gold source.

During the spring of 2006 the author conducted a literature search of recent placer mining efforts along Sulphur Creek, with a view towards assessing whether any of the data would be helpful in



Friday Gulch Project

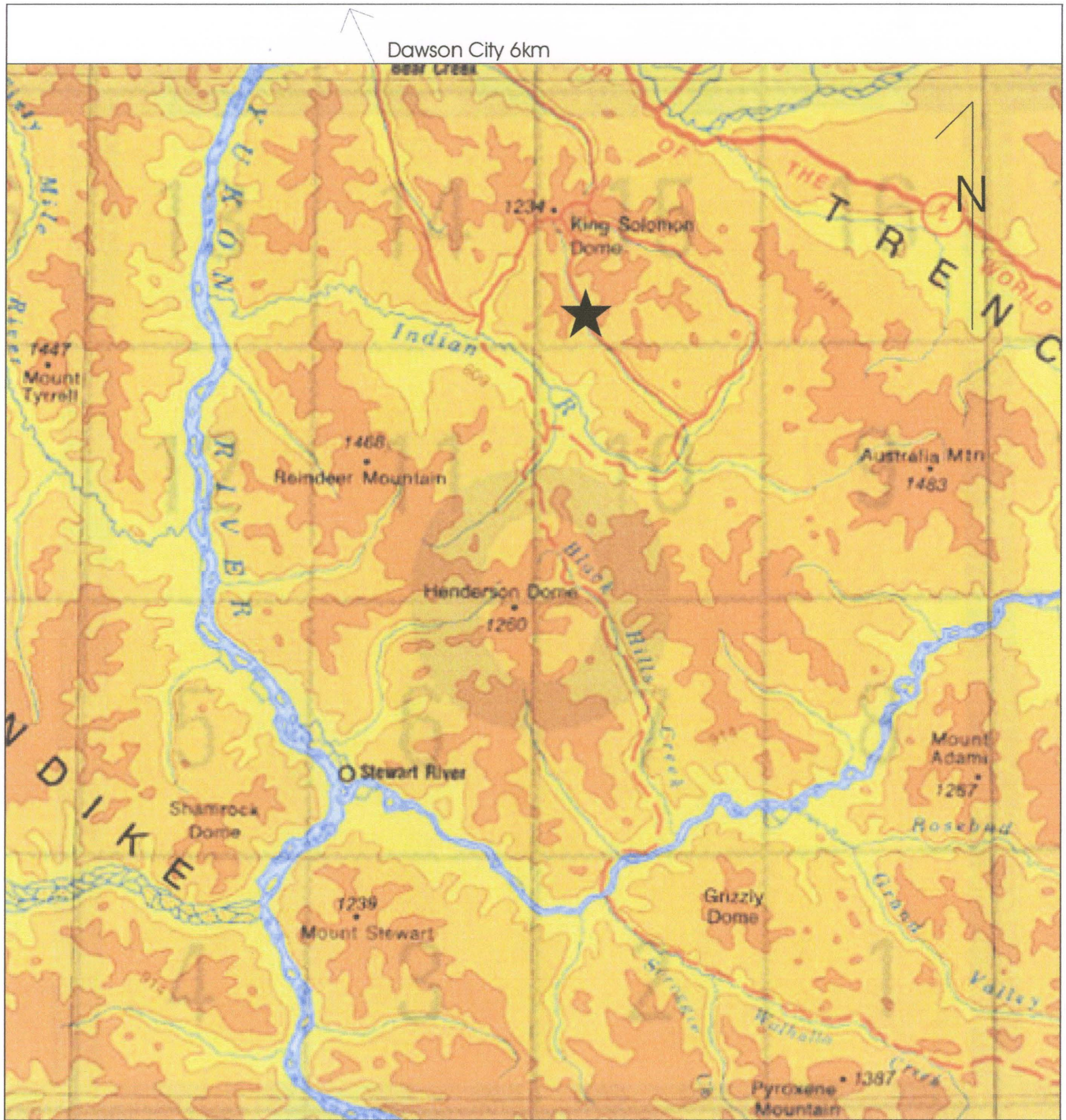


To Accompany: 2011 Friday Gulch Report

January 23rd, 2011

By: Bernie Kreft

Figure 1



Regional Map - Friday Property   
 Fig.2

Scale approx. 1:600,000

directing hardrock exploration. Reported gold production from Sulphur Creek for the period 1978-2002 totaled 116,000 ounces, with Sulphur often rating as one of the top 5 gold producers in the Klondike. This work also detailed operations located at the mouth of Friday Gulch which were recovering gold in an area of decomposed bedrock (YPMI 78-82 p.140). This information was thought to be suggestive of a gold source being located at the mouth of Friday Gulch, and a one-day trip was planned to prospect this area.

Prospecting of tailings at the mouth of Friday Gulch encountered abundant variably pyritic carbonate altered and veined schist. A total of 8 grab samples were taken, 4 returning values ranging from 210-634 ppb Au along with anomalous arsenic. Follow-up at Friday Gulch consisted of auger drilling in an attempt to sample bedrock beneath the tailings. This work resulted in 7 auger holes, 2 of which (2007-03; 2007-06) encountered heavily decomposed schist with moderate amounts of pyrite (3-5%) and several fragments with quartz-carbonate veinlets and fuchsite. Gouge samples were weakly anomalous in arsenic to 42 ppm and gold to 24 ppb. A 12.5m step-out north from the gouge area (2007-07) encountered hard grey schist anomalous in arsenic to 75 ppm and gold to 58 ppb. All other auger hole samples returned less than 14 ppm arsenic and 5 ppb gold.

**Geology** - The project is situated on the southwest side of the Tintina Fault, within Yukon Tanana Terrane strata. The Y.T.T. has proven to be an under-explored, yet highly prospective belt of rocks, as witnessed by the recent world-class discoveries at Wolverine, Kudz Ze Kayah and Pogo. The potential for Pogo type occurrences (along with other bulk-tonnage gold targets) has been recognized in the Yukon portion of the Y.T.T., with the area from Dawson, west to Alaska, receiving considerable attention during 1993-2004 from numerous companies, including Newmont, Teck, Kennecott and Phelps Dodge. The 2008 discovery by Underworld Resources at the White Gold project further highlights the under-explored nature of this belt of rocks.

The vast majority of Sulphur Creek valley bottom is covered in a 2-15 metre thick blanket of tailings from placer mining, with the only bedrock exposures found within the bottom of active placer mining pits. The common practice is for miners to expose bedrock while mining, and then to backfill these exposures with waste from subsequent operations; therefore the exposures often only occur during a short window and are subsequently covered. Due to the paucity of outcrop much of the "mapping" and prospecting relies on angular tailings likely representing material scraped from bedrock during placer mining. Given that mining commonly proceeds in an upstream direction, it would be expected that the movement of tailings would result in their current resting place being downstream (generally within 100 metres) of their actual source. Mining methods employed in the Sulphur Creek basin include recent efforts using bulldozers and excavators, as well as historical bucket-line dredging operations. Dredge tailings are moss covered, have poor to moderate re-growth, and have a distinctive repetitive somewhat cylindrical shape. Recent mining efforts are variably re-grown and have no common shape characteristics. Common practice was for the dredges to excavate through the gravel and into the underlying bedrock as much as 6-8 metres depending on its hardness (Lance Gibson pers. comm.), while recent operations are more selective and commonly only process 1-2 metres of bedrock irrespective of its hardness. These differences result in dredge tailings often containing large



## LEGEND

### LATE CRÉTACEOUS TO EARLY TERTIARY

#### Felsic Intrusive and volcanic rocks

FI	FIa	light coloured quartz-feldspar rhyolite porphyry and rhyolite
	FIb	tan coloured latite and biotite-quartz latite porphyry
	FIc	latitic lapilli tuff
	FI d	monolithic rhyolite
	FIe	heterolithic rhyolite breccia
	FI f	layered rhyolitic lapilli tuff

#### Intermediate intrusive and volcanic rocks, and associated sedimentary rocks

II	IIa	massive dark grey weathering intrusive andesite
	IIb	massive chocolate brown weathering extrusive andesite
	IIc	andesitic lapilli tuff
	IId	siltstone, greywacke, and conglomerate
	IIe	tan coloured dacite and amphibole-feldspar latite porphyry

### EARLY CRÉTACEOUS AND / OR OLDER

#### Diabase dykes

DD	DD	dark brown diabase
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### TRIASSIC OR OLDER

#### Rocks of varying metamorphic grade and degree and style of deformation

#### Felsic plutonic rocks

FP,QS	FPa	foliated equigranular biotite granodiorite
	FPb	foliated coarse grained granodiorite
	QSa	blocky weathering light grey to pinkish feldspar-quartz schist
	QSh	pink and green banded muscovite-feldspar-quartz gneiss
	FPc	porphyritic quartz monzonite and augen gneiss
	FPd	foliated fine to coarse grained quartz monzonite

#### Intermediate plutonic rocks

IP	IPa	weakly foliated chlorite metadiorite
	IPb	strongly foliated chlorite metadiorite

#### Mafic plutonic rocks

MP	MPa	weakly foliated amphibolite
	MPb	strongly foliated amphibolite

#### Quartzofeldspathic schistose rocks

QS	Qsb	buff to pale green weathering well foliated muscovite-feldspar-quartz schist with quartz and feldspar porphyroclasts, and lithic fragments
	QSc	buff weathering well foliated muscovite-feldspar-quartz schist with quartz porphyroclasts
	Qsd	buff weathering well foliated muscovite-feldspar-quartz schist
	QSe	light green weathering hornblende/muscovite-feldspar-quartz schist
	Qsf	silvery grey weathering séricite-quartz schist
	Qsg	buff to khaki weathering massive muscovite-feldspar-quartz cataclasite
	Qsj	white to dark grey weathering well foliated feldspar-quartz mylonite with or without quartz porphyroblasts
	Qsj	muscovite-quartz schist with more than 5% garnet, and with or without chlorite
	Qsk	biotite-quartz schist, with or without calcite
	Qsl	quartzite
	Qsm	kyanite-garnet-muscovite-quartz schist

#### Carbonaceous rocks

CS	CSa	massive to foliated dark grey to black carbonaceous quartzite and muscovite-quartz schist
	CSb	black carbonaceous marble and carbonaceous muscovite-quartz-calcite schist
	CSc	muscovite-feldspar-quartz schist with carbonaceous wisps
	CSd	silty carbonaceous schist with mafic tuffaceous component

#### MB

#### Marble

MBa	cream and grey banded marble, with or without minor quartz, muscovite, and garnet
MBb	massive cream to light grey marble
MBc	marble with more than 5% garnets
MBd	grey to dark grey muscovite-quartz-calcite schist, with or without garnet

#### MV

#### Mafic metavolcanic rocks

MVa	andesitic tuff to tuff breccia
MVb	massive andesitic greenstone
MVc	foliated andesitic greenstone

#### MS

#### Mafic schistose rocks

MSa	light to medium green and buff weathering chlorite-quartz schist
MSb	dark green weathering chlorite schist
MSc	silvery green weathering actinolite-chlorite schist
MSd	grey-brown weathering quartz-amphibole schist
MSe	light to medium green and buff weathering calcareous chlorite-quartz schist; calcite may be disseminated, in thin layers, or as small pink blebs
MSf	silvery green weathering muscovite-chlorite-quartz schist with bluish quartz porphyroclasts
MSg	garnet-feldspar-chlorite schist
MSh	garnet-feldspar-amphibole schist
MSi	mottled green and black biotite-epidote schist

#### UM

#### Ultramafic rocks

UMA	massive dark green serpentinite
UMB	foliated dark green serpentinite
UMc	foliated weakly altered serpentinite with or without chrysotile
UMd	foliated strongly altered serpentinite, including talc schist and listwanite
UME	coarsely crystalline rusty weathering white marble

### SYMBOLS

x	rock in rubble piles, felsenmeer and soil; small outcrop; area of outcrop.
—	geological boundary
—	f <sub>2</sub> event thrust fault
—	f <sub>3</sub> event thrust fault
~ ~ ~ ~ ~	fault or lineament
— DD	dyke.
x — x	bedding, top unknown (horizontal, inclined, vertical).
x — x	foliation (f <sub>1</sub> or indeterminate) (horizontal, inclined, vertical).
# — #	foliation (apparent f <sub>2</sub> ) (horizontal, inclined, vertical).
# — #	foliation (apparent f <sub>3</sub> ) (horizontal, inclined, vertical).
—	lineation
—	axial plane of small scale folds (inclined, vertical, with plunging fold axis).
x — x	joint (horizontal, inclined, vertical).
Au	mineral occurrence (see list of occurrences).

Geology by R.L. Debicki and G. Baldwin, 1984.

It is recommended that reference to this report be made in the following form:

Debicki, R.L. 1985. Bedrock geology and mineralization of the Klondike Area (east), 1150-9, 10, 11, 14, 15, 16, and 116B-2, Exploration and Geological Services Division Yukon; Indian and Northern Affairs Canada, Open File 1: 50,000 scale map with marginal notes.



amounts of bedrock material suitable for “mapping” and prospecting, while recent tailings have only very limited use in this respect due to their lack of common structure and reduced amounts of bedrock material.

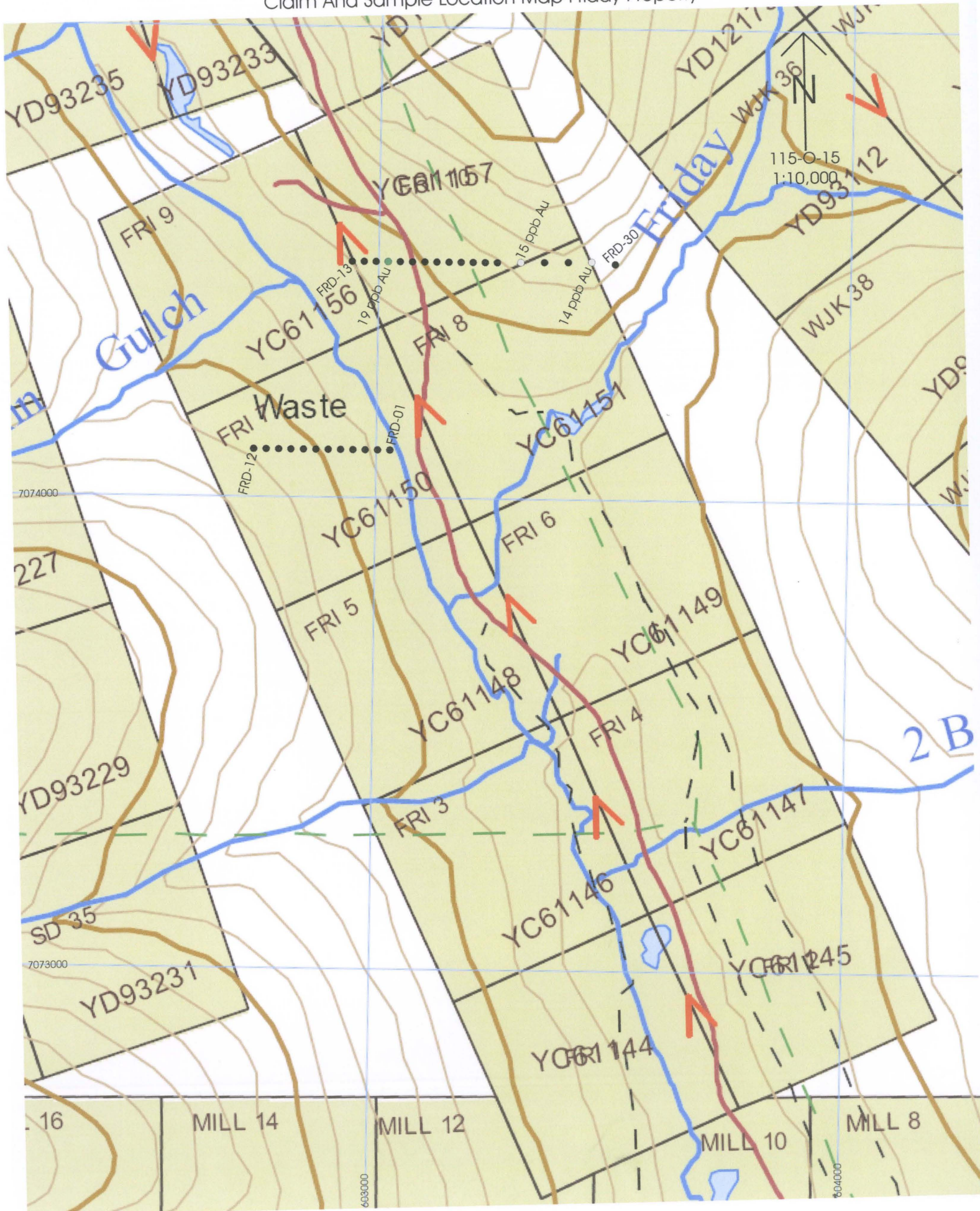
Based on mapping and prospecting, it appears that Sulphur Creek valley bottom is underlain by schist consisting of variable amounts of muscovite, quartz, chlorite and sericite with occasional quartz porphyroclasts. Minor amounts of amphibolite and serpentinite have also been noted. Based on geological studies by others in the Klondike (Debicki: 1984; Mortenson and Ash: recent) it is postulated that the serpentinite units noted by Debicki represent the surface trace of a regional scale thrust fault occurring along Sulphur Creek valley bottom for much of its length. The effects of hydrothermal alteration are common and include: variable carbonate alteration and associated quartz carbonate veining, as well as areas of talc alteration occasionally intense enough to obliterate all primary rock characteristics and produce “gouge” zones extending a minimum of 6-8 metres into bedrock. Fuchsite/mariposite has been noted in numerous areas, commonly within or near either carbonate or talc altered zones, or associated with more mafic units. Mineralization commonly consists of pyrite, with the presence of arsenopyrite inferred from geochemical results. The highly talc altered areas are occasionally gold and arsenic enriched, and are likely correlative with the area of “pyritic saprolite” with highly anomalous gold values discovered at Green Gulch by United Keno Hill Mines.

**Current Work And Results** - The 2010 field program consisted of reconnaissance soil lines on the east and west slopes of Sulphur Creek just upstream from its confluence with Friday Gulch. A total of 30 soil samples were taken at between 25m to 50m intervals. Sampled material was taken from the C horizon, found at a depth of from 45-120 centimetres, using hand held augers. Soil sampling conditions were good, apart from several areas of deep overburden along the east slope of the creek and abundant groundwater flow near the end of the line west of the creek. All sample sites were marked in the field using flagging inscribed with the sample code, with sample medium placed in industry standard soil sample envelopes. Samples were analyzed by Chemex using their Au-AA23 method (30g fire assay) and their ME-ICP41 (35 element aqua regia) package.

**Conclusions** - Previous work has encountered significant gold values associated with alteration zones located in the valley bottom. Although controls on gold mineralization are poorly understood, it appears that better gold values commonly occur within heavily talc? altered rock at the contact with less altered rock, and are invariably associated with anomalous arsenic and quartz carbonate veinlets. The vast majority of Sulphur Creek valley bottom is covered by placer mining tailings which limit the effectiveness of traditional prospecting methods. Soil sampling east of the valley bottom returned a weak arsenic soil anomaly with values up to 76 ppm arsenic, several samples grading up to 19 ppb gold are found within this arsenic anomaly. The gold-arsenic signature noted within soils is the same signature that has been found associated with bedrock gold values beneath the tailings in the valley bottom. Potential exists for a hydrothermal system within the claims area, likely covered by valley bottom tailings, and partially on the east bank of the creek.

**Recommendations** - Further work is recommended and should consist of detailed soil sampling on the east bank of the creek, several reconnaissance soil lines on the west bank of the creek, as well as auger drilling or excavator trenching in an effort to sample bedrock beneath the valley bottom tailings.

Claim And Sample Location Map Friday Property



## **Statement Of Qualifications**

I, Bernie Kreft, conducted the exploration work described herein.

I have over 23 years prospecting experience in the Yukon.

This report is based on fieldwork conducted or witnessed by myself, and includes information from various publicly available assessment reports.

This report is based on fieldwork completed during the 2010 field season.

This report is based on fieldwork completed on the Fri Claims at Sulphur Creek in the Dawson Goldfields.

Respectfully Submitted,

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Bernie Kreft

## Statement Of Costs

Truck Costs For 1 Round-Trip, Whitehorse-Dawson (1026km x \$0.60/km)	=	\$615.60
Room And Board (2 man-days x \$100/day)	=	\$200.00
Analysis on 30 soils (Au + ICP)	=	\$845.04
Wages Bernie Kreft (1 day x \$350/day)	=	\$350.00
Wages Jarret Kreft (1 days x \$225/day)	=	\$225.00
Report Preparation And Duplication	=	<u>\$1200.00</u>
	<b>TOTAL</b>	<b>\$3435.64</b>

Sample	Type	NAD83/E	NAD83/N	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41
				Recvd Wt.	Au	Ag	Al	As
				kg	ppm	ppm	%	ppm
				0.02	0.005	0.2	0.01	2
FRD-01	Soil	603023	7074102	0.2	0.006	0.3	1.3	29
FRD-02	Soil	602997	7074100	0.48	<0.005	0.2	1.38	6
FRD-03	Soil	602971	7074100	0.28	<0.005	<0.2	1.17	25
FRD-04	Soil	602945	7074102	0.48	<0.005	0.2	1.25	7
FRD-05	Soil	602920	7074100	0.3	0.008	0.2	1.03	5
FRD-06	Soil	602894	7074100	0.44	<0.005	<0.2	1.42	7
FRD-07	Soil	602868	7074100	0.36	<0.005	<0.2	1.26	5
FRD-08	Soil	602842	7074100	0.42	<0.005	<0.2	1.28	3
FRD-09	Soil	602816	7074101	0.32	<0.005	<0.2	1.25	4
FRD-10	Soil	602791	7074102	0.36	<0.005	<0.2	1.04	6
FRD-11	Soil	602765	7074100	0.4	<0.005	<0.2	1.18	4
FRD-12	Soil	602739	7074100	0.5	0.006	<0.2	1.28	7
FRD-13	Soil	602957	7074501	0.36	0.006	0.2	1.57	38
FRD-14	Soil	602979	7074500	0.48	0.008	0.3	1.78	54
FRD-15	Soil	602999	7074500	0.34	0.01	0.2	1.31	62
FRD-16	Soil	603024	7074499	0.36	0.019	0.2	1.3	43
FRD-17	Soil	603050	7074500	0.22	0.006	0.2	1.36	38
FRD-18	Soil	603076	7074500	0.38	<0.005	<0.2	1.34	39
FRD-19	Soil	603100	7074500	0.26	0.01	<0.2	1.4	48
FRD-20	Soil	603126	7074500	0.32	0.007	0.2	1.38	31
FRD-21	Soil	603150	7074501	0.36	0.015	0.2	1.16	49
FRD-22	Soil	603175	7074500	0.34	<0.005	0.3	1.28	19
FRD-23	Soil	603202	7074501	0.36	0.006	<0.2	1.41	38
FRD-24	Soil	603226	7074500	0.42	0.014	<0.2	1.32	31
FRD-25	Soil	603250	7074500	0.32	0.005	0.2	1.79	40
FRD-26	Soil	603300	7074500	0.3	0.008	<0.2	1.92	26
FRD-27	Soil	603351	7074501	0.28	<0.005	0.3	1.47	76
FRD-28	Soil	603400	7074500	0.32	<0.005	0.2	1.95	14
FRD-29	Soil	603452	7074500	0.28	<0.005	0.2	1.72	10
FRD-30	Soil	603500	7074500	0.3	<0.005	<0.2	1.44	75

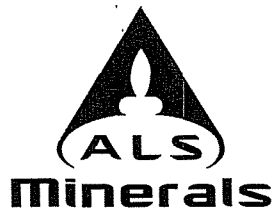
ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
10	10	0.5	2	0.01	0.5	1	1	1
<10	250	<0.5	<2	0.39	<0.5	8	41	31
<10	390	<0.5	<2	0.3	<0.5	5	21	21
<10	320	<0.5	<2	0.32	<0.5	6	24	26
<10	360	<0.5	<2	0.34	<0.5	6	21	21
<10	300	<0.5	<2	0.26	<0.5	5	16	15
<10	310	<0.5	<2	0.18	<0.5	6	20	14
<10	360	<0.5	<2	0.24	<0.5	5	21	20
<10	280	<0.5	<2	0.19	<0.5	6	18	16
<10	370	<0.5	<2	0.25	<0.5	6	19	15
<10	370	<0.5	<2	0.19	<0.5	5	16	17
<10	410	<0.5	<2	0.32	<0.5	7	16	16
<10	370	<0.5	<2	0.27	<0.5	6	19	15
<10	300	0.5	<2	0.48	<0.5	9	29	35
<10	260	<0.5	<2	0.38	<0.5	8	27	42
<10	280	<0.5	<2	0.33	<0.5	7	19	27
<10	290	<0.5	<2	0.48	<0.5	6	18	20
<10	410	0.5	<2	0.32	<0.5	7	22	20
<10	370	0.5	<2	0.22	<0.5	6	21	19
<10	370	0.5	<2	0.21	<0.5	6	21	19
<10	340	<0.5	<2	0.27	<0.5	6	22	22
<10	190	<0.5	<2	0.38	<0.5	7	26	38
<10	330	<0.5	<2	0.32	<0.5	6	24	23
<10	270	<0.5	<2	0.38	<0.5	8	30	42
<10	270	<0.5	<2	0.36	<0.5	9	35	46
<10	330	0.5	<2	0.35	<0.5	9	39	52
<10	340	0.5	<2	0.21	<0.5	8	35	33
<10	160	<0.5	<2	0.24	<0.5	12	31	33
<10	390	0.6	<2	0.3	<0.5	10	36	32
<10	270	0.5	<2	0.16	<0.5	6	20	22
<10	330	0.6	<2	0.25	<0.5	7	23	22

ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na
%	ppm	ppm	%	ppm	%	ppm	ppm	%
0.01	10	1	0.01	10	0.01	5	1	0.01
2.73	<10	<1	0.05	20	0.78	368	1	0.01
2.09	<10	<1	0.04	20	0.4	181	<1	0.01
2.44	<10	<1	0.04	20	0.41	251	<1	0.01
2.19	<10	<1	0.04	20	0.42	236	1	0.01
2.02	<10	<1	0.04	10	0.37	175	1	0.01
2.37	10	<1	0.04	10	0.4	209	1	0.01
2.15	<10	<1	0.04	20	0.45	214	<1	0.01
2.16	<10	<1	0.04	20	0.39	210	<1	0.01
2.17	<10	<1	0.04	20	0.39	228	<1	0.01
2.02	<10	<1	0.04	20	0.3	179	1	0.01
2.18	<10	<1	0.04	20	0.36	219	1	0.01
2.12	<10	<1	0.04	10	0.4	196	<1	0.01
2.7	10	<1	0.07	20	0.65	315	<1	0.01
2.82	<10	<1	0.1	20	0.57	287	1	0.01
2.68	10	<1	0.13	20	0.5	448	1	0.01
2.38	<10	1	0.14	30	0.43	337	<1	0.01
2.41	10	<1	0.07	20	0.41	323	1	0.01
2.3	<10	<1	0.07	20	0.4	244	<1	0.01
2.39	10	<1	0.07	20	0.4	212	<1	0.01
2.31	<10	<1	0.07	20	0.44	251	<1	0.01
2.66	<10	<1	0.09	30	0.65	347	<1	0.01
2.21	<10	<1	0.06	20	0.46	248	<1	0.01
2.87	<10	<1	0.06	20	0.65	357	<1	0.01
2.94	<10	<1	0.05	20	0.64	387	1	0.01
3.27	<10	<1	0.05	20	0.88	391	<1	0.01
2.92	<10	<1	0.06	20	0.69	255	<1	0.01
3	<10	<1	0.09	10	0.71	524	1	<0.01
3.18	10	<1	0.08	40	0.94	345	1	0.01
2.86	<10	<1	0.25	30	0.71	277	<1	<0.01
2.89	10	<1	0.14	20	0.54	281	1	<0.01



ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
1	10	2	0.01	2	1	1	20	0.01
30	1080	10	<0.01	<2	5	17	<20	0.04
13	470	9	<0.01	<2	4	20	<20	0.05
19	660	8	0.01	<2	5	21	<20	0.05
14	520	10	<0.01	<2	4	20	<20	0.05
10	410	12	<0.01	<2	4	14	<20	0.04
12	330	9	<0.01	<2	3	13	<20	0.05
12	440	9	<0.01	<2	5	17	<20	0.05
10	390	10	<0.01	<2	4	12	<20	0.05
11	440	10	<0.01	<2	4	16	<20	0.05
9	360	10	<0.01	<2	4	12	<20	0.04
10	450	11	<0.01	<2	4	16	<20	0.05
12	450	8	<0.01	<2	4	16	<20	0.05
26	610	12	0.01	<2	6	32	<20	0.05
33	490	22	0.01	<2	6	26	<20	0.06
19	560	18	<0.01	2	5	24	<20	0.05
15	390	16	0.02	<2	5	35	<20	0.05
16	250	13	0.01	<2	4	29	<20	0.05
15	220	12	<0.01	<2	4	18	<20	0.05
15	200	12	<0.01	<2	4	17	<20	0.06
16	310	11	<0.01	<2	4	20	<20	0.06
28	760	11	<0.01	<2	6	21	<20	0.05
19	400	9	<0.01	<2	4	23	<20	0.05
32	630	10	<0.01	2	7	23	<20	0.05
39	780	13	<0.01	<2	7	21	<20	0.05
39	560	10	<0.01	<2	8	22	<20	0.06
30	230	11	0.01	<2	5	17	<20	0.05
27	900	9	0.01	<2	5	14	<20	0.04
28	210	18	0.01	<2	8	22	<20	0.1
21	220	16	<0.01	<2	5	20	<20	0.06
20	280	16	<0.01	<2	8	22	<20	0.03

ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
Tl	U	V	W	Zn
ppm	ppm	ppm	ppm	ppm
10	10	1	10	2
<10	<10	38	<10	77
<10	<10	36	<10	47
<10	<10	37	<10	65
<10	<10	35	<10	55
<10	<10	28	<10	45
<10	<10	42	<10	46
<10	<10	36	<10	47
<10	<10	35	<10	45
<10	<10	37	<10	44
<10	<10	31	<10	42
<10	<10	33	<10	48
<10	<10	39	<10	46
<10	<10	41	<10	65
<10	<10	40	<10	74
<10	<10	32	<10	73
<10	<10	28	<10	59
<10	<10	38	<10	48
<10	<10	36	<10	43
<10	<10	36	<10	46
<10	<10	36	<10	47
<10	<10	33	<10	65
<10	<10	39	<10	42
<10	<10	41	<10	66
<10	<10	36	<10	67
<10	<10	52	<10	71
<10	<10	51	<10	60
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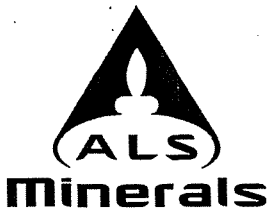
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**CERTIFICATE OF ANALYSIS VA10138405**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	Au-AA23 Au Check 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
DMD-25		0.22	0.055	0.005	<0.2	2.54	5	<10	30	<0.5	<2	0.14	0.5	20	31	95
DMD-26		0.38	0.035		0.7	2.90	10	<10	30	<0.5	3	0.15	0.9	28	53	190
DMD-27		0.30	0.024		<0.2	3.40	<2	<10	70	<0.5	<2	0.12	<0.5	21	73	57
DMD-28		0.30	<0.005		<0.2	0.81	8	<10	320	<0.5	<2	0.16	<0.5	3	13	10
DMD-29		0.36	<0.005		<0.2	0.80	8	<10	250	<0.5	<2	0.14	<0.5	4	12	8
DMD-30		0.42	<0.005		0.2	1.31	8	<10	580	<0.5	<2	0.19	<0.5	6	19	13
DMD-31		0.24	0.007		0.2	1.03	6	<10	600	<0.5	<2	0.21	<0.5	7	26	21
DMD-32		0.40	0.007		<0.2	0.73	14	<10	410	<0.5	<2	0.18	<0.5	4	14	13
DMD-33		0.38	<0.005		<0.2	1.00	36	<10	360	<0.5	<2	0.18	<0.5	5	16	13
DMD-34		0.34	<0.005		<0.2	0.87	4	<10	320	<0.5	<2	0.13	<0.5	4	13	13
DMD-35		0.36	<0.005		<0.2	0.84	3	<10	430	<0.5	<2	0.12	<0.5	4	12	13
DMD-36		0.30	<0.005		<0.2	0.69	3	<10	450	<0.5	<2	0.12	<0.5	5	10	12
DMD-37		0.32	<0.005		<0.2	0.84	6	<10	160	<0.5	<2	0.12	<0.5	4	13	12
DMD-38		0.32	<0.005		<0.2	0.96	4	<10	210	<0.5	<2	0.12	<0.5	5	13	11
DMD-39		0.30	<0.005		0.2	0.47	<2	<10	530	<0.5	<2	0.19	<0.5	3	7	8
DMD-40		0.30	<0.005		1.9	0.73	4	<10	140	<0.5	<2	0.10	<0.5	6	18	24
DMD-41		0.38	<0.005		0.2	1.13	2	<10	370	0.6	<2	0.32	<0.5	12	42	23
DMD-42		0.48	<0.005		0.3	0.68	2	<10	770	<0.5	<2	0.21	<0.5	2	12	15
DMD-43		0.30	<0.005		0.3	0.35	2	<10	360	<0.5	<2	0.11	0.9	2	8	9
DMD-44		0.42	<0.005		0.2	1.46	2	<10	230	<0.5	<2	0.33	<0.5	13	96	28
DMD-45		0.34	0.014		<0.2	2.19	<2	<10	120	<0.5	<2	0.46	<0.5	31	190	81
DMD-46		0.38	<0.005		0.2	3.67	7	<10	210	0.5	<2	0.35	<0.5	32	243	101
DMD-47		0.38	<0.005		0.2	3.20	5	<10	190	<0.5	<2	0.55	<0.5	27	248	88
FRD-01		0.20	0.006		0.3	1.30	29	<10	250	<0.5	<2	0.39	<0.5	8	41	31
FRD-02		0.48	<0.005		0.2	1.38	6	<10	390	<0.5	<2	0.30	<0.5	5	21	21
FRD-03		0.28	<0.005		<0.2	1.17	25	<10	320	<0.5	<2	0.32	<0.5	6	24	26
FRD-04		0.48	<0.005		0.2	1.25	7	<10	360	<0.5	<2	0.34	<0.5	6	21	21
FRD-05		0.30	0.008		0.2	1.03	5	<10	300	<0.5	<2	0.26	<0.5	5	16	15
FRD-06		0.44	<0.005		<0.2	1.42	7	<10	310	<0.5	<2	0.18	<0.5	6	20	14
FRD-07		0.36	<0.005		<0.2	1.26	5	<10	360	<0.5	<2	0.24	<0.5	5	21	20
FRD-08		0.42	<0.005		<0.2	1.28	3	<10	280	<0.5	<2	0.19	<0.5	6	18	16
FRD-09		0.32	<0.005		<0.2	1.25	4	<10	370	<0.5	<2	0.25	<0.5	6	19	15
FRD-10		0.36	<0.005		<0.2	1.04	6	<10	370	<0.5	<2	0.19	<0.5	5	16	17
FRD-11		0.40	<0.005		<0.2	1.18	4	<10	410	<0.5	<2	0.32	<0.5	7	16	16
FRD-12		0.50	0.006		<0.2	1.28	7	<10	370	<0.5	<2	0.27	<0.5	6	19	15
FRD-13		0.36	0.006		0.2	1.57	38	<10	300	0.5	<2	0.48	<0.5	9	29	35
FRD-14		0.48	0.008		0.3	1.78	54	<10	260	<0.5	<2	0.38	<0.5	8	27	42
FRD-15		0.34	0.010		0.2	1.31	62	<10	280	<0.5	<2	0.33	<0.5	7	19	27
FRD-16		0.36	0.019		0.2	1.30	43	<10	290	<0.5	<2	0.48	<0.5	6	18	20
FRD-17		0.22	0.006		0.2	1.36	38	<10	410	0.5	<2	0.32	<0.5	7	22	20



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**CERTIFICATE OF ANALYSIS VA10138405**

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	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
DMD-25		3.64	<10	<1	0.01	<10	2.30	1115	<1	<0.01	21	480	17	<0.01	<2	7
DMD-26		4.32	<10	<1	0.01	<10	2.50	1620	<1	<0.01	29	630	212	<0.01	<2	7
DMD-27		4.43	10	1	0.01	10	2.96	1055	<1	<0.01	35	260	5	<0.01	<2	15
DMD-28		1.47	<10	<1	0.06	20	0.18	140	<1	<0.01	6	330	18	0.01	<2	2
DMD-29		1.60	<10	<1	0.06	20	0.18	239	1	<0.01	7	370	21	<0.01	<2	2
DMD-30		2.13	<10	<1	0.06	30	0.29	253	1	0.01	12	450	20	0.01	<2	3
DMD-31		1.92	<10	<1	0.05	30	0.27	176	1	0.01	14	440	16	0.01	<2	4
DMD-32		1.72	<10	<1	0.09	40	0.19	309	1	0.01	9	330	21	<0.01	<2	3
DMD-33		1.92	<10	<1	0.07	30	0.25	198	1	<0.01	10	370	19	0.01	<2	2
DMD-34		1.68	<10	<1	0.07	30	0.22	177	1	0.01	8	340	18	0.01	<2	2
DMD-35		1.74	<10	<1	0.07	30	0.31	242	1	0.01	9	320	25	0.01	<2	2
DMD-36		1.88	<10	<1	0.07	40	0.19	204	1	0.02	6	320	24	0.08	<2	2
DMD-37		1.96	<10	<1	0.08	30	0.19	268	1	<0.01	8	400	33	<0.01	<2	3
DMD-38		2.13	<10	<1	0.08	20	0.21	299	1	<0.01	8	390	31	<0.01	<2	3
DMD-39		1.24	<10	<1	0.08	80	0.14	150	2	<0.01	5	370	27	0.01	<2	3
DMD-40		2.10	<10	<1	0.12	30	0.33	333	3	<0.01	8	430	210	0.01	<2	3
DMD-41		3.19	<10	<1	0.19	40	0.67	480	1	<0.01	27	930	23	<0.01	<2	9
DMD-42		1.52	<10	<1	0.05	20	0.17	96	2	0.01	7	210	71	0.01	<2	2
DMD-43		1.05	<10	<1	0.07	30	0.10	163	1	<0.01	5	130	32	<0.01	<2	2
DMD-44		2.61	<10	<1	0.08	20	1.11	499	<1	<0.01	56	460	13	0.01	<2	7
DMD-45		3.13	<10	<1	0.01	<10	2.47	564	<1	<0.01	104	750	<2	0.01	<2	4
DMD-46		5.47	10	1	0.08	30	3.74	1095	<1	0.01	276	930	13	<0.01	<2	14
DMD-47		4.80	10	<1	0.19	30	3.79	726	<1	0.01	261	820	11	<0.01	<2	11
FRD-01		2.73	<10	<1	0.05	20	0.78	368	1	0.01	30	1080	10	<0.01	<2	5
FRD-02		2.09	<10	<1	0.04	20	0.40	181	<1	0.01	13	470	9	<0.01	<2	4
FRD-03		2.44	<10	<1	0.04	20	0.41	251	<1	0.01	19	660	8	0.01	<2	5
FRD-04		2.19	<10	<1	0.04	20	0.42	236	1	0.01	14	520	10	<0.01	<2	4
FRD-05		2.02	<10	<1	0.04	10	0.37	175	1	0.01	10	410	12	<0.01	<2	4
FRD-06		2.37	10	<1	0.04	10	0.40	209	1	0.01	12	330	9	<0.01	<2	3
FRD-07		2.15	<10	<1	0.04	20	0.45	214	<1	0.01	12	440	9	<0.01	<2	5
FRD-08		2.16	<10	<1	0.04	20	0.39	210	<1	0.01	10	390	10	<0.01	<2	4
FRD-09		2.17	<10	<1	0.04	20	0.39	228	<1	0.01	11	440	10	<0.01	<2	4
FRD-10		2.02	<10	<1	0.04	20	0.30	179	1	0.01	9	360	10	<0.01	<2	4
FRD-11		2.18	<10	<1	0.04	20	0.36	219	1	0.01	10	450	11	<0.01	<2	4
FRD-12		2.12	<10	<1	0.04	10	0.40	196	<1	0.01	12	450	8	<0.01	<2	4
FRD-13		2.70	10	<1	0.07	20	0.65	315	<1	0.01	26	610	12	0.01	<2	6
FRD-14		2.82	<10	<1	0.10	20	0.57	287	1	0.01	33	490	22	0.01	<2	6
FRD-15		2.68	10	<1	0.13	20	0.50	448	1	0.01	19	560	18	<0.01	2	5
FRD-16		2.38	<10	1	0.14	30	0.43	337	<1	0.01	15	390	16	0.02	<2	5
FRD-17		2.41	10	<1	0.07	20	0.41	323	1	0.01	16	250	13	0.01	<2	4



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr ppm 1	Th ppm 20	Ti % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
DMD-25		4	<20	0.04	<10	<10	73	<10	200
DMD-26		3	<20	0.03	<10	<10	67	<10	528
DMD-27		4	<20	0.01	<10	<10	104	<10	71
DMD-28		15	<20	0.03	<10	<10	27	<10	35
DMD-29		11	<20	0.02	<10	<10	23	<10	39
DMD-30		17	<20	0.02	<10	<10	32	<10	52
DMD-31		18	<20	0.03	<10	<10	31	<10	46
DMD-32		15	<20	0.02	<10	<10	19	<10	51
DMD-33		18	<20	0.03	<10	<10	28	<10	49
DMD-34		12	<20	0.03	<10	<10	24	<10	45
DMD-35		12	<20	0.03	<10	<10	20	<10	59
DMD-36		17	<20	0.02	<10	<10	18	<10	46
DMD-37		10	<20	0.02	<10	<10	23	<10	57
DMD-38		10	<20	0.02	<10	<10	24	<10	56
DMD-39		13	30	0.01	<10	<10	10	<10	63
DMD-40		8	20	0.04	<10	<10	25	<10	98
DMD-41		16	20	0.02	<10	<10	48	<10	76
DMD-42		12	<20	0.02	<10	<10	18	<10	76
DMD-43		8	20	0.01	<10	<10	8	<10	118
DMD-44		16	<20	0.04	<10	<10	50	<10	53
DMD-45		17	<20	0.13	<10	<10	62	<10	41
DMD-46		26	<20	0.02	<10	<10	98	<10	135
DMD-47		25	<20	0.14	<10	<10	95	<10	118
FRD-01		17	<20	0.04	<10	<10	38	<10	77
FRD-02		20	<20	0.05	<10	<10	36	<10	47
FRD-03		21	<20	0.05	<10	<10	37	<10	65
FRD-04		20	<20	0.05	<10	<10	35	<10	55
FRD-05		14	<20	0.04	<10	<10	28	<10	45
FRD-06		13	<20	0.05	<10	<10	42	<10	46
FRD-07		17	<20	0.05	<10	<10	36	<10	47
FRD-08		12	<20	0.05	<10	<10	35	<10	45
FRD-09		16	<20	0.05	<10	<10	37	<10	44
FRD-10		12	<20	0.04	<10	<10	31	<10	42
FRD-11		16	<20	0.05	<10	<10	33	<10	48
FRD-12		16	<20	0.05	<10	<10	39	<10	46
FRD-13		32	<20	0.05	<10	<10	41	<10	65
FRD-14		26	<20	0.06	<10	<10	40	<10	74
FRD-15		24	<20	0.05	<10	<10	32	<10	73
FRD-16		35	<20	0.05	<10	<10	28	<10	59
FRD-17		29	<20	0.05	<10	<10	38	<10	48



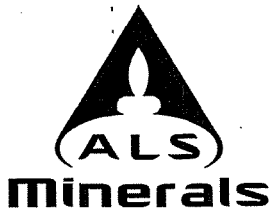
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Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
FRD-18		0.38	<0.005		<0.2	1.34	39	<10	370	0.5	<2	0.22	<0.5	6	21	19
FRD-19		0.26	0.010		<0.2	1.40	48	<10	370	0.5	<2	0.21	<0.5	6	21	19
FRD-20		0.32	0.007		0.2	1.38	31	<10	340	<0.5	<2	0.27	<0.5	6	22	22
FRD-21		0.36	0.015		0.2	1.16	49	<10	190	<0.5	<2	0.38	<0.5	7	26	38
FRD-22		0.34	<0.005		0.3	1.28	19	<10	330	<0.5	<2	0.32	<0.5	6	24	23
FRD-23		0.36	0.006		<0.2	1.41	38	<10	270	<0.5	<2	0.38	<0.5	8	30	42
FRD-24		0.42	0.014		<0.2	1.32	31	<10	270	<0.5	<2	0.36	<0.5	9	35	46
FRD-25		0.32	0.005		0.2	1.79	40	<10	330	0.5	<2	0.35	<0.5	9	39	52
FRD-26		0.30	0.008		<0.2	1.92	26	<10	340	0.5	<2	0.21	<0.5	8	35	33
FRD-27		0.28	<0.005		0.3	1.47	76	<10	160	<0.5	<2	0.24	<0.5	12	31	33
FRD-28		0.32	<0.005		0.2	1.95	14	<10	390	0.6	<2	0.30	<0.5	10	36	32
FRD-29		0.28	<0.005		0.2	1.72	10	<10	270	0.5	<2	0.16	<0.5	6	20	22
FRD-30		0.30	<0.005		<0.2	1.44	75	<10	330	0.6	<2	0.25	<0.5	7	23	22
CC10S-161		0.28	0.011		0.2	1.87	41	<10	120	<0.5	<2	0.95	<0.5	24	41	125
CC10S-162		0.40	0.018		<0.2	1.53	48	<10	130	<0.5	<2	0.43	<0.5	20	36	85
CC10S-163		0.32	0.027		0.2	1.19	76	<10	160	<0.5	<2	0.37	<0.5	17	28	74
CC10S-164		0.46	0.019		0.3	1.39	50	<10	200	<0.5	<2	0.34	<0.5	15	29	50
CC10S-165		0.26	0.027		0.2	1.23	78	<10	180	<0.5	<2	0.22	<0.5	12	23	31
CC10S-166		0.42	0.035		<0.2	1.01	89	<10	140	<0.5	<2	0.20	<0.5	14	19	43
CC10S-167		0.36	0.057		<0.2	1.04	135	<10	100	0.5	<2	0.11	<0.5	11	17	24
CC10S-168		0.36	0.032		<0.2	1.18	74	<10	80	<0.5	<2	0.09	<0.5	6	21	18
CC10S-169		0.30	0.018		<0.2	1.18	43	<10	150	<0.5	<2	0.10	<0.5	7	19	23
CC10S-170		0.44	0.028		<0.2	0.83	67	<10	80	<0.5	<2	0.05	<0.5	8	13	27
CC10S-171		0.26	0.023		<0.2	0.85	52	<10	170	<0.5	<2	0.13	<0.5	10	16	25
CC10S-172		0.42	0.024		<0.2	1.31	52	<10	120	<0.5	<2	0.07	<0.5	7	22	18
CC10S-173		0.32	0.022		<0.2	1.39	73	<10	130	<0.5	<2	0.07	<0.5	8	23	19
CC10S-174		0.40	0.030		<0.2	1.17	78	<10	110	<0.5	<2	0.06	<0.5	6	20	21
CC10S-175		0.40	0.026		<0.2	1.40	71	<10	110	<0.5	<2	0.07	<0.5	7	22	20
CC10S-176		0.34	0.013		<0.2	1.22	33	<10	140	0.5	<2	0.14	<0.5	10	24	25
CC10S-177		0.24	0.005		<0.2	1.87	14	<10	150	<0.5	<2	0.12	<0.5	8	29	16
CC10S-178		0.40	0.031		<0.2	1.33	80	<10	120	0.5	<2	0.09	<0.5	8	21	23
CC10S-179		0.38	0.083		<0.2	1.22	132	<10	170	<0.5	<2	0.14	<0.5	9	21	22
CC10S-180		0.42	0.081		<0.2	1.37	172	<10	140	0.5	<2	0.12	<0.5	9	22	27
CC10S-181		0.28	0.059		<0.2	1.08	124	<10	90	<0.5	<2	0.10	<0.5	6	18	16
CC10S-182		0.38	0.072		<0.2	1.20	135	<10	140	<0.5	<2	0.15	<0.5	8	20	20
CC10S-183		0.30	0.027		<0.2	0.81	111	<10	110	0.5	<2	0.08	<0.5	10	16	30
CC10S-184		0.40	0.021		<0.2	1.26	99	<10	90	<0.5	<2	0.06	<0.5	6	21	22
CC10S-185		0.36	0.027		<0.2	1.22	125	<10	170	<0.5	<2	0.09	<0.5	9	22	26
CC10S-186		0.44	0.032		<0.2	1.22	191	<10	100	0.5	<2	0.06	<0.5	8	23	26
GRD-01		0.32	<0.005		<0.2	1.80	2	<10	70	<0.5	<2	0.17	<0.5	11	11	40



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**CERTIFICATE OF ANALYSIS VA10138405**

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	
		Fe % 0.01	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1
FRD-18		2.30	<10	<1	0.07	20	0.40	244	<1	0.01	15	220	12	<0.01	<2	4
FRD-19		2.39	10	<1	0.07	20	0.40	212	<1	0.01	15	200	12	<0.01	<2	4
FRD-20		2.31	<10	<1	0.07	20	0.44	251	<1	0.01	16	310	11	<0.01	<2	4
FRD-21		2.66	<10	<1	0.09	30	0.65	347	<1	0.01	28	760	11	<0.01	<2	6
FRD-22		2.21	<10	<1	0.06	20	0.46	248	<1	0.01	19	400	9	<0.01	<2	4
FRD-23		2.87	<10	<1	0.06	20	0.65	357	<1	0.01	32	630	10	<0.01	2	7
FRD-24		2.94	<10	<1	0.05	20	0.64	387	1	0.01	39	780	13	<0.01	<2	7
FRD-25		3.27	<10	<1	0.05	20	0.88	391	<1	0.01	39	560	10	<0.01	<2	8
FRD-26		2.92	<10	<1	0.06	20	0.69	255	<1	0.01	30	230	11	0.01	<2	5
FRD-27		3.00	<10	<1	0.09	10	0.71	524	1	<0.01	27	900	9	0.01	<2	5
FRD-28		3.18	10	<1	0.08	40	0.94	345	1	0.01	28	210	18	0.01	<2	8
FRD-29		2.86	<10	<1	0.25	30	0.71	277	<1	<0.01	21	220	16	<0.01	<2	5
FRD-30		2.89	10	<1	0.14	20	0.54	281	1	<0.01	20	280	16	<0.01	<2	8
CC10S-161		5.28	10	<1	0.09	10	0.69	775	<1	0.01	48	590	11	0.04	22	14
CC10S-162		4.22	<10	<1	0.06	10	0.68	570	<1	0.01	42	570	8	0.02	49	9
CC10S-163		4.43	<10	<1	0.05	10	0.46	592	<1	0.01	38	520	9	0.02	42	8
CC10S-164		3.65	<10	<1	0.06	20	0.45	462	<1	0.01	32	690	11	0.02	24	8
CC10S-165		3.29	<10	<1	0.05	20	0.33	478	<1	0.01	24	610	13	0.01	21	4
CC10S-166		3.50	<10	<1	0.06	20	0.28	489	<1	0.01	30	610	15	0.01	37	5
CC10S-167		2.94	<10	<1	0.06	30	0.24	453	<1	0.01	23	540	20	0.01	19	2
CC10S-168		2.68	10	<1	0.05	20	0.29	205	<1	<0.01	16	470	11	0.01	12	2
CC10S-169		2.27	<10	<1	0.05	20	0.27	229	<1	0.01	16	490	13	0.01	7	3
CC10S-170		2.55	<10	<1	0.04	30	0.19	258	<1	<0.01	19	260	17	0.01	17	2
CC10S-171		2.54	<10	<1	0.05	30	0.25	353	<1	0.01	20	350	13	<0.01	10	3
CC10S-172		2.67	<10	<1	0.05	10	0.28	201	<1	<0.01	16	280	12	0.01	10	2
CC10S-173		2.79	<10	<1	0.05	20	0.26	302	1	<0.01	16	360	17	0.01	62	3
CC10S-174		2.39	<10	<1	0.05	20	0.26	169	<1	<0.01	15	310	14	0.01	13	2
CC10S-175		2.58	<10	<1	0.05	20	0.30	194	1	<0.01	17	320	16	0.01	9	3
CC10S-176		2.75	<10	<1	0.06	20	0.34	316	<1	0.01	26	510	13	0.01	10	3
CC10S-177		2.89	<10	<1	0.05	10	0.38	327	1	0.01	17	620	12	0.01	<2	4
CC10S-178		2.76	<10	<1	0.07	20	0.27	232	1	<0.01	18	340	20	0.01	9	3
CC10S-179		2.47	<10	<1	0.06	20	0.34	349	<1	0.01	21	580	11	0.01	5	3
CC10S-180		2.75	<10	1	0.07	20	0.34	297	1	0.01	22	570	21	0.01	10	3
CC10S-181		2.46	<10	<1	0.06	20	0.24	273	<1	0.01	14	540	17	0.01	9	1
CC10S-182		2.49	<10	<1	0.06	20	0.31	304	1	0.01	19	640	16	0.01	8	3
CC10S-183		3.16	<10	<1	0.05	40	0.22	274	1	0.01	25	330	17	0.01	19	3
CC10S-184		2.80	<10	<1	0.04	30	0.27	153	1	<0.01	17	300	12	0.01	8	2
CC10S-185		2.88	<10	1	0.05	30	0.33	251	<1	<0.01	21	300	11	<0.01	7	3
CC10S-186		3.12	<10	1	0.05	30	0.29	215	<1	<0.01	19	320	15	0.01	9	3
GRD-01		3.21	<10	<1	0.02	<10	1.20	867	<1	<0.01	10	540	2	<0.01	2	5



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CERTIFICATE OF ANALYSIS VA10138405

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr ppm 1	Th ppm 20	Tl % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
FRD-18		18	<20	0.05	<10	<10	36	<10	43
FRD-19		17	<20	0.06	<10	<10	36	<10	46
FRD-20		20	<20	0.06	<10	<10	36	<10	47
FRD-21		21	<20	0.05	<10	<10	33	<10	65
FRD-22		23	<20	0.05	<10	<10	39	<10	42
FRD-23		23	<20	0.05	<10	<10	41	<10	66
FRD-24		21	<20	0.05	<10	<10	36	<10	67
FRD-25		22	<20	0.06	<10	<10	52	<10	71
FRD-26		17	<20	0.05	<10	<10	51	<10	60
FRD-27		14	<20	0.04	<10	<10	39	<10	65
FRD-28		22	<20	0.10	<10	<10	46	<10	65
FRD-29		20	<20	0.06	<10	<10	26	<10	69
FRD-30		22	<20	0.03	<10	<10	35	<10	64
CC105-161		41	<20	0.01	<10	<10	67	<10	82
CC105-162		21	<20	0.02	<10	<10	53	<10	80
CC105-163		21	<20	0.01	<10	<10	45	<10	85
CC105-164		23	<20	0.02	<10	<10	46	<10	90
CC105-165		17	<20	0.02	<10	<10	37	<10	74
CC105-166		18	<20	0.02	<10	<10	32	<10	80
CC105-167		15	<20	0.02	<10	<10	29	<10	78
CC105-168		10	<20	0.03	<10	<10	36	<10	54
CC105-169		12	<20	0.03	<10	<10	34	<10	50
CC105-170		9	<20	0.02	<10	<10	26	<10	60
CC105-171		15	<20	0.03	<10	<10	28	<10	56
CC105-172		9	<20	0.03	<10	<10	40	<10	46
CC105-173		10	<20	0.04	<10	<10	41	<10	50
CC105-174		9	<20	0.03	<10	<10	34	<10	46
CC105-175		10	<20	0.03	<10	<10	38	<10	52
CC105-176		13	<20	0.03	<10	<10	35	<10	56
CC105-177		12	<20	0.05	<10	<10	50	<10	58
CC105-178		12	<20	0.03	<10	<10	38	<10	53
CC105-179		14	<20	0.04	<10	<10	35	<10	62
CC105-180		12	<20	0.04	<10	<10	37	<10	70
CC105-181		11	<20	0.03	<10	<10	33	<10	54
CC105-182		14	<20	0.04	<10	<10	34	<10	61
CC105-183		15	<20	0.02	<10	<10	24	<10	61
CC105-184		8	<20	0.03	<10	<10	33	<10	47
CC105-185		12	<20	0.04	<10	<10	33	<10	56
CC105-186		9	<20	0.04	<10	<10	33	<10	61
GRD-01		7	<20	0.01	<10	<10	36	<10	80