

Geochemical Report
On The
Liberty Project
Asb-01 to Asb-54: YE67301 to YE67354
Quartz Claims

Work Period June 1st to October 15th, 2012

Located In
Dawson Mining District
On
NTS 116-C-07
64° 26' Latitude, 140° 37' Longitude

By
Bernie Kreft

January 4th, 2013

Table Of Contents

Location	Page 1
Access	Page 1
Claims And Land Status	Page 1
Topography And Vegetation	Page 1
History And Previous Work	Page 1
Yukon Map (figure 1)	Page 2
Regional Map (figure 2)	Page 3
Geology And Mineralization	Page 4
Current Work And Results	Page 6
Conclusions	Page 7
Recommendations	Page 7
Geology Map (figure 3)	Page 8
Sample Location Map (figure 4)	Page 9
Gold Map	Page 10
Statement of Qualifications	Page 11
Statement Of Costs	Page 12
Assay Spreadsheets	At Back
Assay Certificates	At Back

Location – The Liberty Project is located in the Dawson Mining District on NTS mapsheet 116-C-07 centred at approximately 64° 26' north and 140° 37' east. The project is comprised of the Asb-1 to 54 quartz claims which have a total surface area of approximately 10.9 square kilometres, and which are located east of the abandoned Clinton Creek Mine, southwest of the Yukon River and north of the Fortymile River.

Access – The access road to the abandoned Clinton Creek asbestos mine passes within 400 metres of the southwest boundary of the claim block, making foot access feasible to nearby portions of the claim block. Helicopter support was used to gain access to more remote sections of the project, with the total flight distance from Dawson about 80.0 kilometres with a one-way flight time of about 30 minutes.

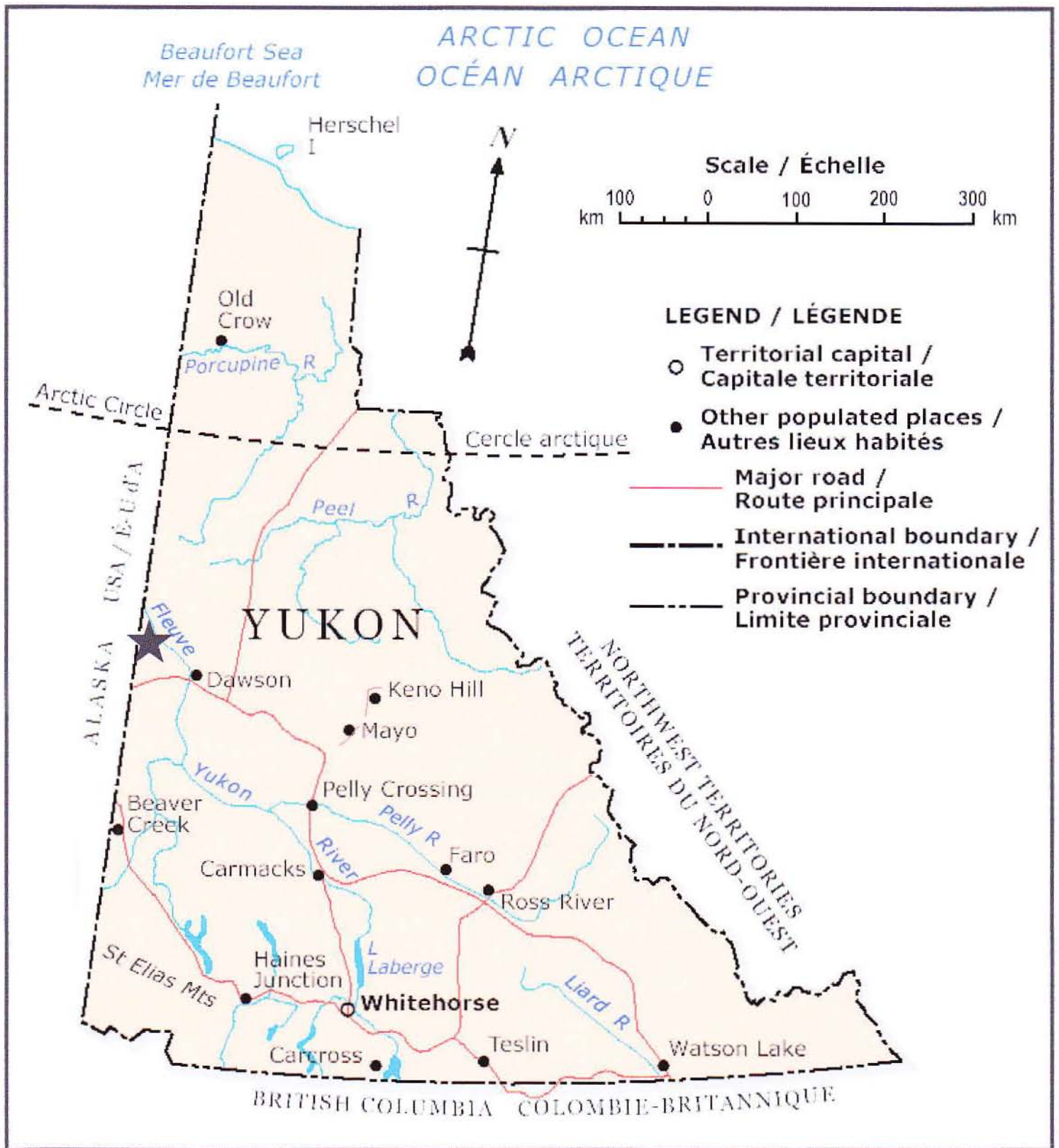
Claims And Land Status – Adjacent to the southeast edge of the project claims are the Magnum claims which are owned by Archer Cathro and which were staked for base-metal VMS potential. Recently lapsed placer gold claims cover the un-named tributary to Clinton Creek central to the project claim block. Signs of placer exploration along the creek are limited to small amounts of trenching and staking.

An approximately 12 square kilometre area surrounding the abandoned Clinton Creek mine, located just to the west of the project area, has been withdrawn from staking. There are no native land claim blocks within the area.

Topography And Vegetation – The project 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 surficial weathering extending to depths of as much as 80 metres or more. Overburden and eluvial-regolithic material appears to average approximately 1.0 metre in thickness, but is certainly deeper in some spots. 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 project 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. Several recent forest fires have swept through the area, leaving large areas devoid of moss and vegetative cover resulting in more rock exposure and better soil sampling conditions due to at least partial destruction of permafrost in these areas, but also resulting in increased difficulties for ground traversing due to wind-fall.

An extensive high-level fluvial gravel bench of unknown thickness blankets many of the topographically flat areas. The bench appears to be consistent between the 2050ft-2250ft contour lines, but based on topography may exist as low as 1800ft and as high as 2350ft. Care should be taken when designing soil sampling programs as this bench is certainly thick enough to mask the geochemical signature of bedrock, and has a soil profile similar in appearance to a typical Dawson eluvial soil profile.

History and Previous Work – Exploration for the source of the placer gold in the Klondike region has been of an ebb and flow nature since 1898. Although historical prospecting efforts resulted in several interesting discoveries such as Lone Star and King Solomons Dome, many more discoveries (Underworld, Ten Mile, Coffee) have occurred since the development and subsequent improvement of exploration methods such as soil sampling, trace element geochemistry and geophysics. The “oldtimers” were often unsuccessful likely due to poorly understood geology and controls on mineralization, thick overburden, abundant vegetative cover and a variable thickness of regolithic material all conspiring to make historical methods of prospecting of limited use and effect. Modern discoveries have come about through the usage of soil geochemistry in combination with mechanized trenching. These discoveries span a variety of deposit types including



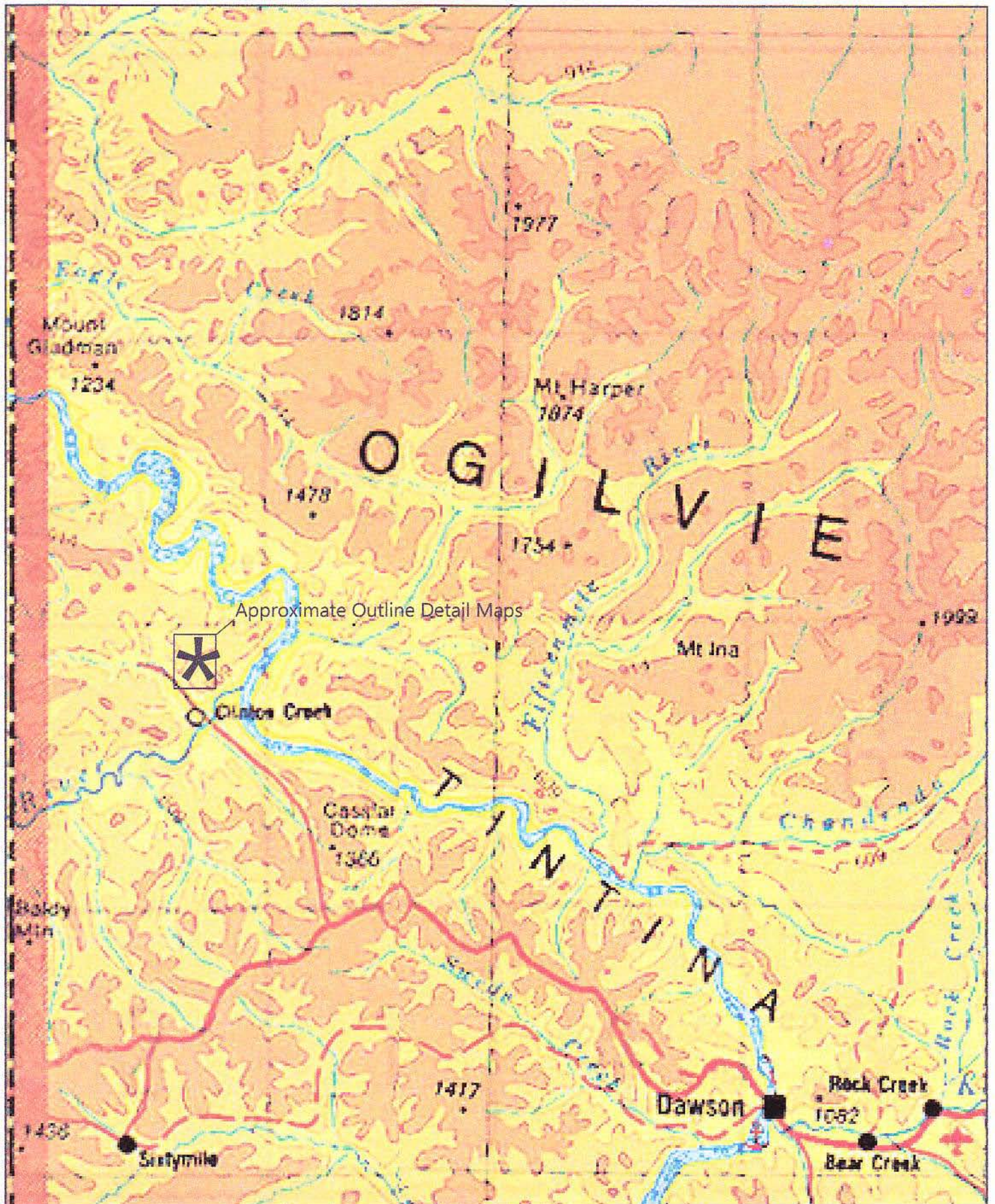
Target Area ★

To Accompany: 2013 Liberty Report

January 10th, 2013

By: Bernie Kreft

Figure 1



Liberty Project
 116-C (east half) and 116-B (west half) *
 1:500,000 (approximately)
 Fig2

structurally related quartz veins and associated auriferous alteration haloes, areas of brecciation and silicification related to intrusives or faults, and intrusive hosted gold; providing a much broader spectrum of target types than the simple quartz veins historically thought to be the source of the Klondike gold.

The entire Clinton Creek area, including the project claims, was heavily explored for asbestos mineralization during the period 1957-1983, with this work resulting in the discovery and subsequent exploitation of the Clinton Creek asbestos deposit. Exploration outboard from the deposit area encountered numerous serpentized ultramafic bodies, many of which contain un-economic grades of asbestos fibre. Signs of this work are present throughout project area. Significantly, several assessment reports describe the presence of silica carbonate alteration as envelopes or complete replacements of the ultramafic rocks, as well as later dioritic intrusives, but no attempt appears to have been made to assess this area for gold potential until 2004 when prospector Brian Sauer explored the immediate vicinity of the Clinton Creek mine-site.

A rough summary of the "Sauer" report (AR 094475) follows: Serpentinized ultramafic bodies are found cutting Nasina Series metasedimentary rocks. Several zones of quartz-carbonate alteration up to 30.5 metres wide were noted as envelopes surrounding small dioritic to ultramafic intrusive bodies in this area. The presence of hematite, chalcedony, talc and fuchsite was noted, with the various occurrences of this alteration assemblage thought to be controlled by faulting. Of the 28 rock samples taken, a maximum value of 11 ppb Au was returned.

The geological trends and rock units within the project area are part of a belt of rocks extending across much of the Dawson area and into adjacent sections of Alaska. Given that geology, and by default the associated potential for mineralization, does not stop at borders, research on targets within the portion of Alaska in the general vicinity of the Liberty Project was conducted, yielding the following data (Alaska Resource Data File) pertaining to auriferous showings in this area:

At the South Liberty Prospect (ARDF; EA072 and EA073) gold in soil values of up to 7,517 ppb have been found in an area underlain by greenstone and quartz muscovite schist cut by iron-stained quartz carbonate veins. Best gold values are associated with highly anomalous arsenic and antimony, with the mineralization bearing numerous similarities to Motherlode type gold targets.

Dome Creek (ARDF; EA078 and EA079) is a significant large-scale placer gold deposit, concentrates from which contain pyrite, galena and cinnabar. Bedrock within the placer pits consists of Nasina Series rocks and serpentized greenstone, both of which are cut by numerous quartz veins and shears containing pyrite, galena and arsenopyrite.

Nugget Gulch (ARDF: EA081) consists of gold in silt anomalies of up to 1,081 ppb within an area underlain by Nasina series sediments and ultramafic units intruded by Mesozoic granitic rocks. Areas of silicification, quartz carbonate alteration and pyritic quartz veins have been noted. Potential for Motherlode style gold mineralization was said to exist.

Geology And Mineralization – The project is situated on the southwest side of the Tintina Fault, within the Tintina Gold Belt (TGB), a geological and geochemical environment favorable for locating economic gold deposits. Significant discoveries within the TGB include Donlin Creek, Pogo and Fort Knox, while significant Yukon occurrences include Brewery Creek, Dublin Gulch, Coffee, Rau and Underworld. Mineralization at these deposits covers a wide spectrum of high-grade mesothermal veins, intrusion hosted sheeted veins, large-tonnage and low-grade disseminations and stockworks, skarns and mantos, with much of the mineralization intrusion related or having a strong structural control. A recent significant surge in local exploration activity has occurred since the discovery by Underworld Resources of the Golden Saddle and

Arc deposits at the White Gold Project. This “rush” is ongoing as of the date of writing and, due to more recent discoveries by Kaminak at Coffee and Atac at Rau, shows no sign of slowing.

At Golden Saddle, intrusion-related gold mineralization is preferentially hosted within metamorphosed felsic intrusive units, as well as felsic and mafic metavolcanic rocks, with the principal host rock a granitoid that has been metamorphosed to augen gneiss. Gold is associated with quartz veins, stockwork and breccia zones, as well as pyrite veinlets and disseminations, with better-grade mineralization found in proximity to ultramafic units. The alteration assemblage includes pervasive albite, carbonate, sericite and silicification. The main mineralized zone strikes to the northeast, with a gentle to moderate dip to the northwest. The generally lower grade and smaller Arc Deposit is hosted by metasedimentary rocks (quartzite), and is typified by hydrothermal breccias and silicification, with mineralization associated with arsenic and antimony, which is distinct to the Golden Saddle deposit which contains only limited amounts of sulphides. At Coffee, gold mineralization has been found within schist and gneiss units as well as granitic intrusives. Gold values are associated with zones of shearing, brecciation, silicification, clay a/o sericite alteration mineralized with variable amounts of fresh to fully oxidized sulphides occurring within micro-fracture networks, veins and in the matrix of breccias. A correlation between gold values and several pathfinder elements, including arsenic, antimony, molybdenum, mercury and barium has been noted. Structure is reportedly the key control on mineralization at Coffee.

The geological environment of the Liberty Project is permissible for the development of ophiolite hosted or related (Motherlode) bulk-tonnage and high-grade gold targets. Well known examples of this style of mineralization are found within the Cassiar, Atlin, Wells-Barkerville, Bralorne and California Goldfields.

At Cassiar, gold-quartz veins and related auriferous wallrock alteration haloes are hosted by a gently dipping thrust zone, 300 to 400 metres thick, which immediately underlies Late Triassic sedimentary rocks. This thrust zone comprises a sequence of narrow imbricated metabasaltic slices, roughly 100 metres thick, separated by thinner, discontinuous tectonic slivers of variably listwanite (silica-carbonate) altered ultramafic rocks. Significant amounts of auriferous mineralization have been outlined in the Taurus-88 Hill area where an estimated resource of about 3,900,000 ounces of gold occurs within a pyritic quartz vein swarm and associated extensive pyritization and ankeritization/carbonate alteration of the host basalt and associated volcanic rocks. Auriferous zones are commonly associated with anomalous values of arsenic and silver, lesser antimony and copper along with potassium enrichment and sodium depletion. The nearby Cusac-Table Mountain-Erickson Mines have reported sporadic production totalling approximately 300,000 ounces of gold from a series of high-grade, discontinuous, quartz vein deposits averaging between 10 to 30 g/t gold.

Bedrock underlying the Liberty Project consists of Nasina (Devonian-Mississippian) series micaceous quartzite, quartz-mica schist, graphitic or carbonaceous schist and limestone, as well as Slide Mountain Terrane (Permian) greenstone, quartz-chlorite-muscovite schist and scattered occurrences of ultramafic rocks. Intrusive to these units are mid to late Cretaceous (112ma to 105ma and 85ma to 64.9ma) granodiorite to quartz diorite stocks. Large intrusive bodies occur 10.0 km to the northwest and 15.0 km to the southeast while a small 64.9 ma stock is located just west of the target area. Given the amount of cover it is likely that Cretaceous intrusive bodies are more widespread than currently mapped. Faulting is common within the target area, and consists of regular as well as thrust faults.

The ultramafic bodies are invariably at least moderately serpentinized and range from massive to highly sheared. Further altering the serpentinized ultramafics is a silica-carbonate (listwanite) assemblage consisting of varying amounts of quartz, chalcedony and magnesite with lesser ankerite, dolomite and mariposite. Some small serpentinite bodies are completely altered while larger bodies are generally only altered in sheared areas.

The outline of the geological units on the various maps attached to this report has been copied from Map Viewer Online. Although the location and extent of these units was found to be generally acceptable from a grassroots exploration standpoint, advanced exploration work will likely require re-mapping of the area to provide a more accurate geological framework. A potentially significant source of detailed geological data exists within a Masters Thesis completed by Myat Htoon titled: Geology Of The Clinton Creek Asbestos Deposit. Although the geology as mapped by this thesis is generally comparable with that which is detailed on Map Viewer online, there are several variations especially regarding the size and location of ultramafic bodies. A re-jigging of the geology of this area is beyond the scope of this initial phase of work and therefore the geology as exists on Map Viewer online will be used.

Current Work And Results – Work consisted of prospecting along with rock, silt and soil sampling, in an effort to confirm and further define anomalies located during 2011. A total of 58 soil samples averaging 0.29 kg in weight were taken at an average 50 metre interval on randomly oriented lines. Sampled material was taken from the C horizon, found at an average depth of 30-80 centimetres, using hand held augers. Soil sampling conditions were good, apart from very steep slopes or at high elevations where soil development is limited. A total of 28 rock samples were collected from rare outcrops or from float/talus occurrences. A total of 10 silt samples, weighing an average of 0.41kg, were taken from active stream channels varying in size from small side streams to main stem regular stream channel; care was taken to standardize silt sample sites based on medium (medium gravel to very fine sand: 16mm to 62.5µm) and location (as close to center of the stream channel as possible). Two silt samples were taken at each silt sample site in an effort to test the reproducibility of assays and to provide duplication which would provide more certainty to results. All sample sites were marked in the field using flagging inscribed with the sample code, with the sample placed in industry standard soil sample envelopes for soils, or poly rock bags for rocks and silts. Samples were analyzed by Chemex using their Au-AA23 (30g fire assay) and their ME-ICP41 (35 element aqua regia) packages.

An analysis of the results from the 2011 silt geochemical sampling resulted in the definition of 4 distinct areas with gold potential, 3 of which were deemed significant enough to be explored during the 2012 field program.

Area 5 – 2011 work yielded 4 silt samples, from two different drainage basins draining the same hill, assays of which returned highly anomalous gold values of between 0.022 to 0.046 ppm Au. The presence of silica-carbonate alteration and fuchsite within outcrops proximal to the anomalous silt sample sites suggested potential for a motherlode style system.

This area was prospected during the 2012 field program yielding 4 silt samples, 15 soil samples and 7 rock samples. Silt sampling failed to extend the 2011 anomalies in an upstream direction suggesting the source area for the 2011 silt anomalies is along the lower reaches of the creeks. Of the 15 soil samples taken, 2 adjacent samples (ASD-25/26), located along the lower reaches of one creek, returned values of 0.023 ppm gold which is considered weakly to moderately anomalous. Rock sampling and prospecting further defined a sizeable moderate to heavily quartz-carbonate-mariposite altered outcrop near the lower end of the other creek (samples BSAR-10 to 13), unfortunately the samples taken of it were not anomalous in gold.

Area 7 – Consists of 5 silt samples sourced from two creeks and a small side-hill seep. Values range from 0.011 ppm Au to 0.119 ppm Au, along with highly anomalous arsenic, lead and antimony. Pathfinder element geochemistry and the presence of serpentinized ultramafics and silica-carbonate altered rocks within stream float suggest that motherlode style mineralization is a possible source for these silt anomalies.

This area was prospected during the 2012 field program yielding 1 silt sample, 19 soil samples and 13 rock

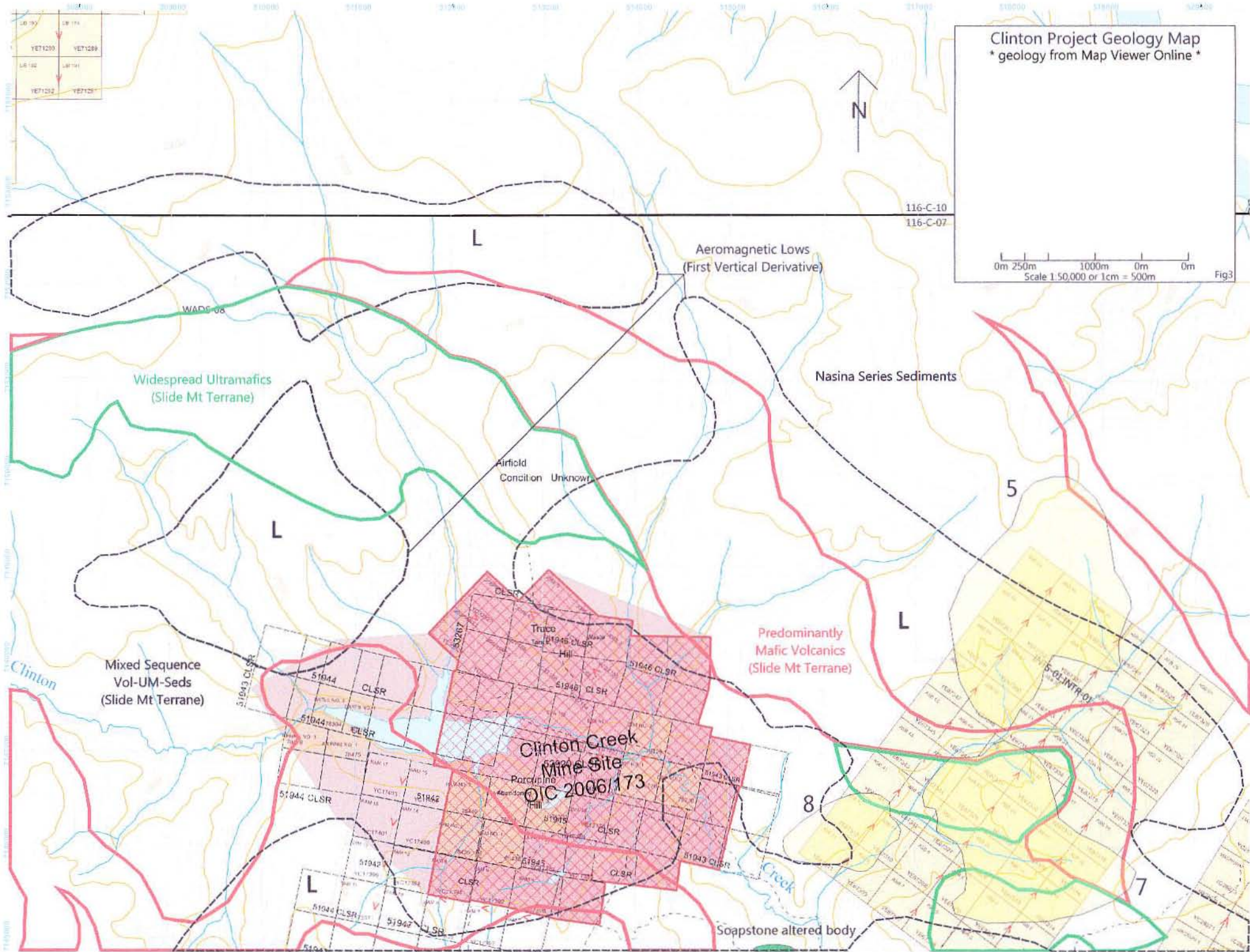
samples. Silt sampling (BSAS-03) returned up to 0.055 ppm Au from a creek which had yielded up to 0.033 ppm gold during 2012 silt sampling. None of the 19 soil samples taken returned significantly anomalous values requiring follow-up prospecting. Rock sampling encountered several areas with quartz-carbonate +/- mariposite alteration unfortunately gold values were not anomalous.

Area 8 – Consists of 4 consecutive silt samples with values of from 0.011 ppm Au to 0.434 ppm Au and up to 27 ppm As. Gold values are considered weakly to highly anomalous, while arsenic values are moderately anomalous.

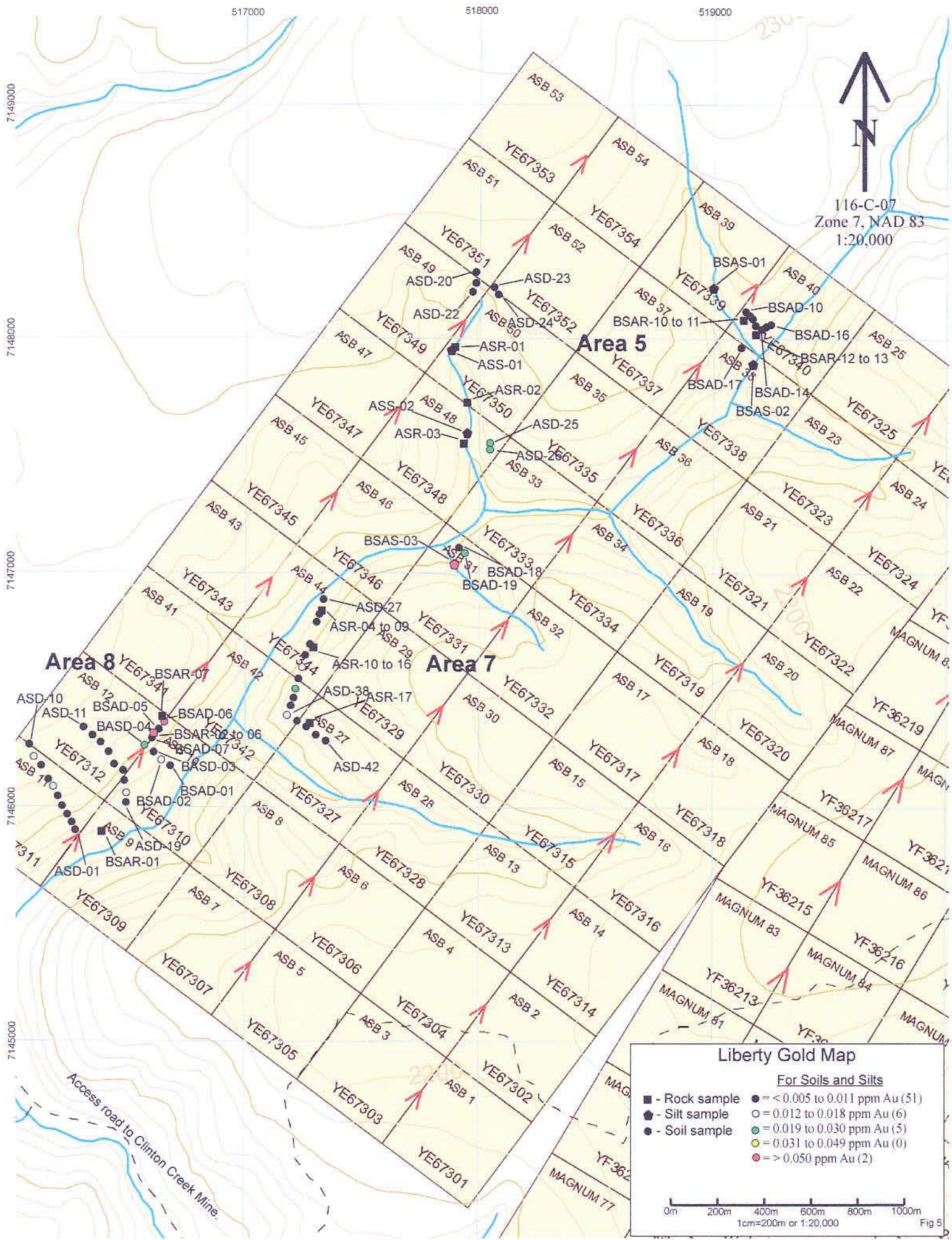
This area was prospected during the 2012 field program yielding 26 soil samples and 7 rock samples. One of the soil samples (BSAD-06) returned a significantly anomalous value of 0.052 ppm Au requiring follow-up prospecting. Rock sampling encountered several areas with quartz-carbonate alteration, one sample of which (BSAR-05) returned 0.144 ppm Au, which is the highest gold in rock value from the property to date. Of significance is the fact that both of these samples are in somewhat close proximity to each other and when taken together they represent an area of increased gold content worthy of follow-up prospecting.

Conclusions – Several areas with anomalous gold values and/or alteration and mineralization requiring further follow-up work have been defined on the property. Prospecting and sampling is required for the quartz-carbonate-mariposite alteration zone located in the west corner of claim ASB-40, the two consecutive gold anomalous soil samples located in the east corner of claim ASB-48, the drainage basin at and upstream of auriferous silt sample BSAS-03 and the auriferous rock and associated soil sample located near the boundary between claims ASB-10 and ASB-12. Potential exists for a motherlode style gold system within the project claims.

Recommendations – A short two-day, 4-man, prospecting and soil sampling program is recommended to follow up the anomalous areas defined in the conclusions section. Further work is dependent on the results of this program.







Statement Of Qualifications

I, Bernie Kreft, directed and participated in the exploration work described herein.

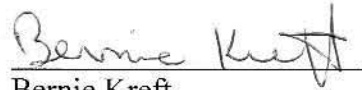
I have over 24 years prospecting experience in the Yukon.

This report is based on fieldwork directed or conducted by the author, and includes information from various publicly available assessment reports and public access websites.

This report is based on fieldwork completed during the 2012 field season.

This report is based on fieldwork completed on the ASB claims, Clinton Creek area.

Respectfully Submitted,

A handwritten signature in cursive script that reads "Bernie Kreft". The signature is written in black ink and is positioned above a horizontal line.

Bernie Kreft

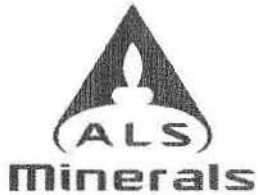
Statement Of Costs

Truck Travel (site visit plus Dawson-Whse return 1264km x \$0.60/km)	\$758.40
Chemex (assaying 58 soils, 10 silts and 28 rocks Au30g + icp41)	\$2,923.10
Report Writing and Duplication	\$900.00
Wages Kyle Eide (2 day x \$210/day)	\$420.00
Wages Jarret Kreft (2 days x \$230/day)	\$460.00
Wages Bernie Kreft (2 days x \$300/day)	\$600.00
Wages Justin Kreft (2 days x \$210/day)	\$420.00
Wages Bernie Kennedy (2 days x \$300/day)	\$600.00
Helicopter: TNTA	\$3,732.75
Food And Camp Supplies (10 man days x \$100/day)	<u>\$1,000.00</u>
Total	\$11,814.25

Name	Type	Interval	Notes	Easting	Northing	Weight kg	Au ppm	Ag ppm	As ppm	Bi ppm	Cr ppm	Sb ppm
ASR-01	Rock	grab	Chlorite schist with Qtz vn stkwrk	517939	7147971	0.56	<0.005	<0.2	<2	<2	3	<2
ASR-02	Rock	grab	Schist with Qtz stwrk	518005	7147714	0.34	<0.005	<0.2	<2	3	53	<2
ASR-03	Rock	grab	Qtz carb altr ? Rock	518017	7147557	0.6	<0.005	<0.2	<2	<2	29	<2
ASR-04	Rock	grab	Iron carb altr rock cut by vuggy banded Qtz vn	517325	7146841	0.34	<0.005	<0.2	2	<2	24	<2
ASR-05	Rock	grab	Iron carb altr rock cut by hairline qtz vns trace mariposite	517325	7146841	0.3	<0.005	<0.2	<2	<2	247	<2
ASR-06	Rock	grab	Iron carb altr rock with abundant mariposite and a qtz vn	517325	7146841	0.28	<0.005	<0.2	18	<2	208	<2
ASR-07	Rock	grab	Qtz carb mariposite vn	517317	7146850	0.16	0.007	<0.2	345	<2	221	<2
ASR-08	Rock	grab	Argillite cut by sheeted Qtz carb vns trace mariposite argillite	517319	7146846	0.28	<0.005	<0.2	60	<2	792	<2
ASR-09	Rock	grab	Qtz carb altr rock cut by stkwrk of vuggy qtz calcite vns	517319	7146846	0.36	0.008	<0.2	6	<2	11	<2
ASR-10	Rock	grab	Fe carb altr? Rock cut by rare qtz vns	517277	7146711	0.36	<0.005	<0.2	10	2	622	<2
ASR-11	Rock	grab	Qtz mariposte limonite vn?	517281	7146714	0.28	<0.005	<0.2	25	<2	246	<2
ASR-12	Rock	grab	As per 10 no obvious qtz vns	517278	7146712	0.52	0.02	0.3	150	3	629	4
ASR-13	Rock	grab	Limonite and iron-carb altd fine black rock with trace mariposite	517268	7146695	0.3	0.017	<0.2	83	<2	300	6
ASR-14	Rock	grab	As per 12 heavily leached	517268	7146695	0.42	0.046	<0.2	16	<2	482	<2
ASR-15	Rock	grab	Iron carb altr? Rock cut by stkwrk fine qtz vnlets	517268	7146695	0.5	0.046	<0.2	84	<2	405	7
ASR-16	Rock	grab	Iron carb altd? Rock with mariposite one qtz lined vug	517268	7146695	0.5	0.005	<0.2	78	2	577	6
ASR-17	Rock	grab	Serpentinized ultramafic	517241	7146354	0.36	<0.005	<0.2	54	<2	997	9
BSAR-01	Rock	grab	Sandstone trace py, cut by manganese stained/lined fractures	516388	7145894	0.4	<0.005	0.5	4	2	8	<2
BSAR-02	Rock	grab	Silicic sed with wk hematitic altr, wkly BRX rare chalcidonic vn	516613	7146313	0.66	<0.005	<0.2	<2	2	291	2
BSAR-03	Rock	grab	Limonitic and silicified banded sed rock cobble in old rd	516621	7146319	0.32	<0.005	<0.2	<2	4	60	2
BSAR-04	Rock	grab	qtz and iron-carb altd rock with rare chalcidonic vns trac py	516634	7146335	0.4	<0.005	<0.2	<2	<2	200	<2
BSAR-05	Rock	grab	qtz and iron-carb alt serpentinized grnstone, several qtz vnlets	516634	7146335	0.78	0.144	<0.2	<2	<2	268	<2
BSAR-06	Rock	grab	As per 04 more iron-carb altr same chalcidonic vns trace py	516634	7146335	0.68	0.032	<0.2	<2	<2	394	2
BSAR-07	Rock	grab	as per BSAR-04	516653	7146364	0.32	<0.005	<0.2	4	<2	394	9
BSAR-10	Rock	grab	BRX Qtz carb rock	519135	7148085	0.16	<0.005	<0.2	39	<2	197	4
BSAR-11	Rock	grab	Qtz carb altr sericite schist	519135	7148085	0.28	<0.005	<0.2	123	3	53	3
BSAR-12	Rock	grab	Rusty Qtz carb rock with minor vugs and trace black sulphides	519205	7148040	0.42	<0.005	<0.2	254	<2	641	46
BSAR-13	Rock	grab	sandstone with mod carb alteration cut by qtz-py vn	519194	7148015	0.34	0.09	0.2	116	5	40	8
ASS-01	Silt			517939	7147971	0.6	0.012	<0.2	7	<2	48	2
ASS-02	Silt			518012	7147571	0.34	0.007	0.3	14	<2	35	<2
ASS-03	Silt		Duplicate of ASS-01	517939	7147971	0.6	0.005	0.2	9	<2	50	<2
ASS-04	Silt		Duplicate of ASS-02	518012	7147571	0.4	<0.005	0.2	15	<2	34	2
BSAS-01	Silt		Solid stream flow, fine to med material with rare large cobbles	519059	7148214	0.4	0.019	<0.2	7	<2	45	<2
BSAS-02	Silt		Duplicate of 2011 silt sample (2011 = 0.033 ppm Au)	519193	7147896	0.34	<0.005	<0.2	12	<2	26	<2
BSAS-03	Silt		on creek above small land-slide serpentinized cobbles	517966	7147033	0.28	0.021	<0.2	52	<2	39	2
BSAS-04	Silt		Duplicate of BSAS-01	519059	7148214	0.42	<0.005	0.2	7	<2	42	<2
BSAS-05	Silt		Duplicate of BSAS-02	519193	7147896	0.32	<0.005	<0.2	8	<2	23	<2
BSAS-06	Silt		Duplicate of BSAS-03	517966	7147033	0.36	0.055	<0.2	46	<2	39	2
ASD-01	Soil			516279	7145896	0.22	0.008	0.4	14	<2	124	4
ASD-02	Soil			516257	7145930	0.4	<0.005	1.3	19	<2	20	19
ASD-03	Soil			516239	7145965	0.34	0.005	1.4	10	<2	18	6

Name	Type	Interval	Notes	Easting	Northing	Weight	Au	Ag	As	Bi	Cr	Sb
ASD-04	Soil			516211	7146004	0.22	<0.005	0.7	9	<2	22	<2
ASD-05	Soil			516195	7146046	0.34	0.007	1.2	16	<2	18	4
ASD-06	Soil			516176	7146088	0.24	0.014	0.2	20	<2	218	5
ASD-07	Soil			516156	7146118	0.38	0.007	0.2	10	<2	356	6
ASD-08	Soil			516126	7146176	0.28	<0.005	<0.2	13	<2	54	6
ASD-09	Soil			516093	7146214	0.44	0.013	<0.2	15	<2	52	<2
ASD-10	Soil			516072	7146267	0.24	0.007	<0.2	10	<2	38	<2
ASD-11	Soil			516307	7146342	0.34	0.006	<0.2	18	<2	47	2
ASD-12	Soil			516346	7146306	0.24	0.005	0.9	11	<2	37	2
ASD-13	Soil			516382	7146277	0.3	0.006	1.5	14	<2	40	2
ASD-14	Soil			516414	7146234	0.3	0.008	0.9	20	<2	213	4
ASD-15	Soil			516439	7146183	0.3	<0.005	0.6	17	<2	159	3
ASD-16	Soil			516478	7146158	0.24	0.01	0.9	27	<2	118	4
ASD-17	Soil			516482	7146114	0.32	0.008	0.8	19	<2	124	4
ASD-18	Soil			516481	7146065	0.22	0.012	2.1	15	<2	46	2
ASD-19	Soil			516485	7146021	0.32	0.011	0.6	15	<2	40	2
ASD-20	Soil			517985	7148286	0.4	<0.005	0.3	15	<2	122	<2
ASD-21	Soil			517985	7148239	0.46	0.005	0.6	7	<2	78	<2
ASD-22	Soil			517973	7148216	0.28	0.006	0.3	10	<2	83	<2
ASD-23	Soil			518059	7148223	0.36	0.008	1.3	30	<2	26	5
ASD-24	Soil			518079	7148190	0.24	0.009	0.8	25	<2	36	<2
ASD-25	Soil			518042	7147557	0.24	0.023	<0.2	63	<2	10	6
ASD-26	Soil			518045	7147539	0.42	0.023	<0.2	37	<2	14	<2
ASD-27	Soil			517329	7146899	0.24	0.005	<0.2	22	<2	95	<2
ASD-28	Soil			517317	7146838	0.32	<0.005	<0.2	33	<2	268	3
ASD-29	Soil			517305	7146803	0.36	<0.005	<0.2	117	<2	511	7
ASD-30	Soil		frost, no sample taken	517289	7146757							
ASD-31	Soil			517277	7146699	0.28	<0.005	<0.2	84	<2	177	8
ASD-32	Soil			517257	7146650	0.34	0.005	<0.2	14	<2	74	<2
ASD-33	Soil			517244	7146604	0.3	0.018	<0.2	119	<2	672	4
ASD-34	Soil			517228	7146551	0.34	0.008	<0.2	116	<2	375	4
ASD-35	Soil			517214	7146516	0.3	0.021	<0.2	76	<2	452	4
ASD-36	Soil			517208	7146481	0.34	0.006	0.6	38	<2	181	5
ASD-37	Soil			517194	7146442	0.3	<0.005	0.7	15	<2	32	4
ASD-38	Soil			517179	7146394	0.36	0.015	0.6	48	<2	103	4
ASD-39	Soil			517219	7146367	0.32	<0.005	<0.2	22	<2	83	2
ASD-40	Soil			517264	7146346	0.32	<0.005	<0.2	183	<2	396	6
ASD-41	Soil			517303	7146310	0.3	<0.005	<0.2	31	<2	99	2
ASD-42	Soil			517348	7146287	0.34	<0.005	<0.2	13	<2	45	<2
BASD-03	Soil			516598	7146236	0.12	<0.005	0.3	10	<2	29	<2
BASD-04	Soil			516562	7146266	0.28	0.025	0.3	16	<2	63	2
BSAD-01	Soil			516679	7146177	0.2	0.005	0.7	19	<2	42	3

Name	Type	Interval	Notes	Easting	Northing	Weight	Au	Ag	As	Bi	Cr	Sb
BSAD-02	Soil			516636	7146202	0.2	0.013	0.6	24	<2	34	3
BSAD-05	Soil			516634	7146335	0.24	0.007	0.3	25	<2	1015	<2
BSAD-06	Soil			516653	7146364	0.22	0.052	0.2	24	2	1295	5
BSAD-07	Soil			516610	7146296	0.24	0.007	1.3	19	<2	79	3
BSAD-10	Soil			519138	7148116	0.28	0.006	<0.2	61	<2	197	8
BSAD-11	Soil			519152	7148104	0.24	0.007	0.3	49	<2	226	7
BSAD-12	Soil			519160	7148090	0.24	<0.005	<0.2	8	<2	29	<2
BSAD-13	Soil			519178	7148057	0.28	<0.005	<0.2	344	<2	1055	8
BSAD-14	Soil			519205	7148040	0.2	<0.005	0.2	261	2	48	3
BSAD-15	Soil			519217	7148039	0.2	0.011	<0.2	298	<2	125	10
BSAD-16	Soil			519242	7148047	0.16	<0.005	<0.2	119	<2	82	5
BSAD-17	Soil			519132	7147981	0.18	<0.005	<0.2	7	<2	68	7
BSAD-18	Soil			517917	7147106	0.12	0.006	0.4	21	<2	14	<2
BSAD-19	Soil			517937	7147084	0.3	0.021	0.5	25	<2	12	<2



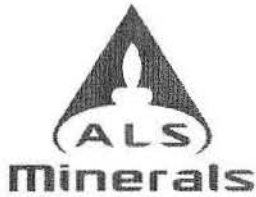
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 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 2 - A
 Total # Pages: 3 (A - C)
 Finalized Date: 4-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199037

Sample Description	Method Analyte Units LOR	WEI-21	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	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
BSAR-01		0.40	<0.005	0.5	0.39	4	<10	2390	<0.5	2	0.07	<0.5	25	8	175	1.99
BSAR-02		0.96	<0.005	<0.2	0.05	<2	<10	380	<0.5	2	21.2	<0.5	29	291	5	2.97
BSAR-03		0.32	<0.005	<0.2	0.03	<2	<10	180	0.6	4	22.0	<0.5	31	60	6	3.11
BSAR-04		0.40	<0.005	<0.2	0.06	<2	<10	50	<0.5	<2	0.53	<0.5	49	200	4	3.02
BSAR-05		0.78	0.144	<0.2	0.04	<2	<10	20	<0.5	<2	0.43	<0.5	51	268	10	2.82
BSAR-06		0.68	0.032	<0.2	0.04	<2	<10	120	<0.5	<2	0.53	<0.5	50	394	4	2.78
BSAR-07		0.32	<0.005	<0.2	0.04	4	<10	760	<0.5	<2	14.2	<0.5	72	394	4	4.35
BSAR-10		0.16	<0.005	<0.2	0.12	39	<10	80	<0.5	<2	11.2	<0.5	87	197	4	3.58
BSAR-11		0.28	<0.005	<0.2	0.02	123	<10	20	<0.5	3	6.32	<0.5	57	53	5	4.64
BSAR-12		0.42	<0.005	<0.2	0.18	254	<10	80	<0.5	<2	4.75	<0.5	39	641	6	3.97
BSAR-13		0.34	0.090	0.2	2.20	116	<10	230	<0.5	5	0.43	0.5	28	40	90	9.38
BkR-01		0.52	<0.005	<0.2	0.08	7	<10	80	<0.5	<2	0.03	<0.5	3	8	14	0.94
BkR-02		0.38	0.008	0.7	0.41	5	<10	40	<0.5	<2	0.06	<0.5	2	18	27	1.59
BkR-03		0.32	0.008	0.5	0.09	8	<10	180	<0.5	<2	0.04	<0.5	2	8	14	0.73
BkR-04		0.56	<0.005	<0.2	0.06	7	<10	60	<0.5	<2	0.01	<0.5	1	8	18	0.62
BkR-05		0.38	<0.005	<0.2	0.08	9	<10	60	<0.5	<2	0.02	<0.5	1	10	14	0.79
BkR-06		0.16	<0.005	<0.2	0.08	6	<10	70	<0.5	<2	0.02	<0.5	1	13	21	0.82
BkR-07		0.38	<0.005	0.2	0.14	<2	<10	70	<0.5	<2	0.22	<0.5	1	4	13	0.47
BkR-08		0.34	0.018	1.5	0.12	384	<10	70	1.2	<2	0.02	<0.5	16	559	8	6.06
BkR-09		0.42	0.009	0.7	0.08	485	<10	180	0.7	<2	0.01	<0.5	40	324	11	4.43
BkR-10		0.36	0.012	0.6	0.04	306	<10	130	<0.5	<2	0.01	<0.5	56	467	8	3.89
BkR-11		0.48	0.022	0.8	0.10	320	<10	100	0.5	<2	0.01	<0.5	33	426	12	6.40
BkR-11A		0.12	<0.005	<0.2	0.43	8	80	10	<0.5	<2	0.01	<0.5	91	1025	13	4.89
BkR-12		0.72	<0.005	0.2	0.12	79	<10	100	<0.5	<2	0.07	<0.5	62	609	9	3.64
BkR-13		0.60	<0.005	0.2	0.13	142	<10	100	<0.5	<2	0.04	<0.5	81	648	8	4.66
BkR-14		0.68	0.005	1.0	0.08	772	<10	110	<0.5	<2	0.05	<0.5	88	494	12	5.65
BkR-15		0.66	<0.005	0.6	0.11	599	<10	110	0.6	<2	0.02	<0.5	79	497	11	5.05
BkR-16		0.64	<0.005	0.3	0.11	412	<10	100	0.7	<2	0.02	<0.5	73	521	10	4.29
BkR-17		0.58	<0.005	0.3	0.11	244	<10	100	<0.5	<2	0.02	<0.5	63	631	11	4.81
BkR-18		0.66	0.006	0.4	0.11	329	<10	120	0.7	<2	0.02	<0.5	68	564	9	4.87
BkR-19		0.66	<0.005	0.2	0.02	112	<10	90	0.5	<2	0.01	<0.5	47	464	5	2.73
BkR-20		0.30	<0.005	<0.2	0.03	18	<10	30	<0.5	<2	4.01	<0.5	15	50	1	0.98
BkR-21		0.50	0.012	0.6	0.04	1505	<10	100	<0.5	<2	0.03	<0.5	155	340	12	4.66
BkR-22		0.68	0.006	0.2	0.02	186	<10	30	<0.5	<2	0.01	<0.5	28	164	4	1.35
BBR-01		0.48	<0.005	<0.2	0.01	3	<10	10	<0.5	<2	0.01	<0.5	1	10	3	0.26
BBR-02		0.46	0.005	0.2	0.27	7	<10	180	<0.5	<2	0.02	<0.5	3	17	34	0.66
BBR-03		0.68	0.298	0.8	0.15	11	<10	70	<0.5	2	<0.01	<0.5	3	11	20	0.44
BBR-04		1.20	0.005	<0.2	0.08	5	<10	50	<0.5	<2	0.01	<0.5	2	22	11	0.34
BBR-05		0.56	0.015	0.2	0.05	7	<10	20	<0.5	<2	<0.01	<0.5	5	11	11	0.36
BBR-06		0.82	<0.005	<0.2	0.18	7	<10	110	<0.5	<2	0.01	<0.5	6	7	33	2.81



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 #1 LOCUST PLACE
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Page: 2 - B
 Total # Pages: 3 (A - C)
 Finalized Date: 4-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199037

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga 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	Sr ppm 1
BSAR-01		<10	<1	0.06	10	0.04	27600	4	0.01	108	330	35	0.01	<2	3	303
BSAR-02		<10	<1	0.01	<10	12.30	705	<1	<0.01	1155	20	3	<0.01	2	3	787
BSAR-03		<10	<1	<0.01	<10	13.50	289	<1	0.01	1390	20	<2	0.06	2	4	683
BSAR-04		<10	<1	<0.01	<10	13.40	361	<1	<0.01	600	20	<2	<0.01	<2	2	17
BSAR-05		<10	<1	<0.01	<10	15.70	165	<1	<0.01	990	10	3	<0.01	<2	2	13
BSAR-06		<10	<1	<0.01	<10	14.20	469	<1	<0.01	943	20	<2	<0.01	2	2	18
BSAR-07		<10	<1	<0.01	<10	15.05	908	<1	<0.01	1585	10	<2	<0.01	9	4	842
BSAR-10		<10	<1	<0.01	<10	13.60	349	<1	<0.01	1655	10	4	<0.01	4	5	565
BSAR-11		<10	<1	<0.01	<10	18.25	1950	<1	<0.01	735	<10	69	<0.01	3	4	869
BSAR-12		<10	<1	<0.01	<10	14.45	735	<1	<0.01	1070	20	2	<0.01	46	6	236
BSAR-13		10	<1	0.02	20	1.05	2450	21	<0.01	292	770	71	0.74	8	11	28
BkR-01		<10	<1	0.03	<10	0.06	456	1	<0.01	17	120	7	<0.01	<2	1	10
BkR-02		<10	<1	0.06	10	0.17	97	<1	0.04	16	340	36	0.03	<2	1	7
BkR-03		<10	<1	0.07	<10	0.03	40	<1	0.01	12	50	6	0.47	<2	<1	4
BkR-04		<10	<1	0.03	<10	0.01	61	<1	0.01	2	60	3	<0.01	<2	1	5
BkR-05		<10	<1	0.04	<10	0.01	123	<1	0.01	3	90	3	<0.01	<2	1	6
BkR-06		<10	<1	0.05	<10	0.01	113	<1	0.01	3	80	2	<0.01	<2	1	6
BkR-07		<10	<1	<0.01	<10	0.02	256	<1	0.09	3	50	31	0.04	<2	1	31
BkR-08		<10	<1	0.05	<10	0.05	87	<1	0.01	568	60	16	0.01	317	1	2
BkR-09		<10	1	0.05	<10	0.05	567	<1	0.01	950	40	7	0.01	396	4	2
BkR-10		<10	<1	0.02	<10	0.09	718	<1	0.01	1260	30	3	0.01	223	4	2
BkR-11		<10	1	0.06	<10	0.06	163	<1	0.01	865	30	8	0.01	253	2	2
BkR-11A		<10	<1	<0.01	<10	21.1	570	<1	0.01	2030	20	<2	<0.01	3	9	1
BkR-12		<10	<1	0.02	<10	1.85	526	<1	0.01	1330	40	<2	<0.01	54	4	4
BkR-13		<10	<1	0.02	<10	1.80	902	<1	0.01	2030	50	<2	0.01	91	5	3
BkR-14		<10	1	0.02	<10	2.58	1180	<1	0.01	2650	30	2	0.01	469	7	4
BkR-15		<10	1	0.02	<10	0.40	1145	<1	0.01	2540	40	2	0.01	409	7	2
BkR-16		<10	1	0.02	<10	0.42	922	<1	0.01	2010	40	2	0.01	331	6	2
BkR-17		<10	1	0.02	<10	0.35	751	<1	0.01	2180	40	<2	0.01	258	7	2
BkR-18		<10	1	0.03	<10	0.25	949	<1	0.01	1800	40	2	0.01	277	7	2
BkR-19		<10	1	<0.01	<10	0.04	422	<1	0.01	751	20	<2	0.01	105	2	1
BkR-20		<10	<1	<0.01	<10	2.45	256	<1	0.01	1475	20	<2	<0.01	14	1	58
BkR-21		<10	1	0.02	<10	0.09	1050	<1	0.01	3030	30	3	0.01	644	4	2
BkR-22		<10	<1	0.01	<10	0.04	324	<1	0.01	656	10	<2	<0.01	103	1	1
BBR-01		<10	<1	<0.01	<10	0.01	42	<1	0.01	14	<10	<2	<0.01	<2	<1	<1
BBR-02		<10	<1	0.07	<10	0.13	80	1	0.01	25	90	9	0.01	3	1	7
BBR-03		<10	<1	0.05	<10	0.05	43	<1	0.01	12	30	9	0.03	2	<1	2
BBR-04		<10	<1	0.02	<10	0.03	133	<1	0.01	7	20	5	0.01	<2	<1	1
BBR-05		<10	<1	0.01	<10	0.02	165	<1	<0.01	8	10	9	<0.01	<2	<1	1
BBR-06		<10	<1	0.03	<10	0.01	204	1	<0.01	20	60	2	0.01	2	3	2



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Page: 2 - C
 Total # Pages: 3 (A - C)
 Finalized Date: 4-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199037

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
BSAR-01		<20	<0.01	<10	20	8	<10	247
BSAR-02		<20	<0.01	<10	<10	16	<10	10
BSAR-03		<20	<0.01	<10	<10	22	<10	8
BSAR-04		<20	<0.01	<10	<10	6	<10	6
BSAR-05		<20	<0.01	<10	<10	8	<10	4
BSAR-06		<20	<0.01	<10	<10	5	<10	3
BSAR-07		<20	<0.01	<10	<10	19	<10	9
BSAR-10		<20	<0.01	<10	<10	14	<10	23
BSAR-11		<20	<0.01	<10	<10	2	<10	13
BSAR-12		<20	<0.01	<10	<10	12	<10	18
BSAR-13		<20	0.01	<10	<10	205	<10	263
BkR-01		<20	<0.01	<10	<10	2	<10	19
BkR-02		<20	<0.01	<10	<10	8	<10	31
BkR-03		<20	<0.01	<10	<10	3	<10	6
BkR-04		<20	<0.01	<10	<10	2	<10	4
BkR-05		<20	<0.01	<10	<10	3	<10	6
BkR-06		<20	<0.01	<10	<10	3	<10	4
BkR-07		<20	<0.01	<10	<10	1	<10	37
BkR-08		<20	<0.01	<10	<10	37	<10	25
BkR-09		<20	<0.01	<10	<10	23	<10	14
BkR-10		<20	<0.01	<10	<10	13	<10	5
BkR-11		<20	<0.01	<10	<10	20	<10	14
BkR-11A		<20	0.01	<10	<10	32	<10	17
BkR-12		<20	<0.01	<10	<10	18	<10	21
BkR-13		<20	<0.01	<10	<10	21	<10	17
BkR-14		<20	<0.01	<10	<10	19	<10	6
BkR-15		<20	<0.01	<10	<10	28	<10	16
BkR-16		<20	<0.01	<10	<10	31	<10	19
BkR-17		<20	<0.01	<10	<10	30	<10	11
BkR-18		<20	<0.01	<10	<10	31	<10	16
BkR-19		<20	<0.01	<10	<10	12	<10	31
BkR-20		<20	<0.01	<10	<10	4	<10	5
BkR-21		<20	<0.01	<10	<10	20	<10	12
BkR-22		<20	<0.01	<10	<10	10	<10	11
BBR-01		<20	<0.01	<10	<10	<1	<10	<2
BBR-02		<20	<0.01	<10	<10	7	<10	24
BBR-03		<20	<0.01	<10	<10	4	<10	13
BBR-04		<20	<0.01	<10	<10	2	<10	12
BBR-05		<20	<0.01	<10	<10	1	<10	10
BBR-06		<20	<0.01	<10	<10	5	<10	43



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To: KREFT, BERNIE
 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 3 - A
 Total # Pages: 3 (A - C)
 Finalized Date: 4-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199037

Sample Description	Method Analyte Units LOR	WEI-21	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	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
BBR-07		0.46	0.007	<0.2	0.27	12	<10	180	<0.5	<2	0.05	<0.5	5	11	10	3.42
BBR-08		0.74	<0.005	<0.2	0.02	4	<10	10	<0.5	<2	0.01	<0.5	1	11	2	0.63
BBR-09		1.44	0.083	0.2	0.77	21	<10	170	<0.5	<2	0.95	<0.5	18	15	68	3.86
ASR-01		0.56	<0.005	<0.2	0.86	<2	<10	130	<0.5	<2	0.24	<0.5	3	3	11	1.77
ASR-02		0.34	<0.005	<0.2	1.33	<2	<10	80	<0.5	3	20.1	<0.5	11	53	21	2.33
ASR-03		0.60	<0.005	<0.2	0.52	<2	<10	80	<0.5	<2	5.13	<0.5	20	29	9	2.62
ASR-04		0.34	<0.005	<0.2	0.27	2	<10	1480	0.7	<2	15.1	<0.5	12	24	14	6.75
ASR-05		0.30	<0.005	<0.2	0.46	<2	<10	210	<0.5	<2	7.5	<0.5	40	247	66	5.78
ASR-06		0.28	<0.005	<0.2	0.18	18	<10	290	<0.5	<2	6.28	<0.5	38	208	26	4.03
ASR-07		0.16	0.007	<0.2	0.28	345	<10	210	<0.5	<2	16.4	0.5	10	221	29	1.67
ASR-08		0.28	<0.005	<0.2	0.77	60	<10	270	<0.5	<2	7.5	<0.5	77	792	2	6.07
ASR-09		0.36	0.008	<0.2	0.24	6	<10	180	<0.5	<2	10.5	<0.5	5	11	8	3.11
ASR-10		0.36	<0.005	<0.2	0.26	10	<10	3050	0.5	2	23.2	<0.5	35	622	2	5.41
ASR-11		0.28	<0.005	<0.2	0.29	25	<10	210	<0.5	<2	15.9	<0.5	18	246	10	3.07
ASR-12		0.52	0.020	0.3	0.18	150	<10	420	1.0	3	20.3	0.5	69	629	1	4.70
ASR-13		0.30	0.017	<0.2	0.18	83	<10	60	<0.5	<2	11.3	<0.5	52	300	1	2.12
ASR-14		0.42	0.046	<0.2	0.25	16	<10	60	<0.5	<2	>25.0	<0.5	133	482	11	4.59
ASR-15		0.50	0.046	<0.2	0.31	84	<10	310	<0.5	<2	23.3	<0.5	52	405	<1	5.20
ASR-16		0.50	0.005	<0.2	0.19	78	<10	80	<0.5	2	23.9	<0.5	110	577	4	5.75
ASR-17		0.36	<0.005	<0.2	0.52	54	30	10	<0.5	<2	0.36	<0.5	73	997	3	4.35



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To: KREFT, BERNIE
 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 3 - B
 Total # Pages: 3 (A - C)
 Finalized Date: 4-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199037

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
BBR-07		<10	<1	0.05	<10	0.04	2560	9	0.03	10	230	2	0.01	2	4
BBR-08		<10	<1	<0.01	<10	0.01	124	<1	0.01	3	30	<2	0.01	2	<1
BBR-09		<10	<1	0.16	<10	0.22	1075	<1	0.04	27	550	2	0.11	2	3
ASR-01		<10	<1	0.22	10	0.45	304	1	0.03	10	240	17	0.01	<2	3
ASR-02		<10	<1	0.08	10	1.32	1655	<1	0.02	27	380	4	0.01	<2	5
ASR-03		<10	<1	0.05	10	1.98	638	<1	0.01	44	730	2	0.01	<2	20
ASR-04		<10	<1	0.04	<10	5.49	1600	<1	<0.01	13	260	<2	0.03	<2	11
ASR-05		<10	<1	0.01	<10	7.26	1825	<1	0.02	1045	540	<2	<0.01	<2	25
ASR-06		<10	<1	0.01	<10	6.34	952	<1	0.01	782	190	2	0.01	<2	7
ASR-07		<10	<1	0.03	<10	7.94	4140	<1	0.03	165	80	6	0.03	<2	5
ASR-08		<10	<1	<0.01	10	5.10	1435	2	0.03	1240	320	2	<0.01	<2	15
ASR-09		<10	<1	0.11	10	4.61	1005	<1	0.01	34	220	2	<0.01	<2	2
ASR-10		<10	<1	<0.01	<10	0.63	2840	1	<0.01	359	20	7	0.06	<2	7
ASR-11		<10	<1	0.01	<10	7.72	1975	<1	0.01	478	50	3	<0.01	<2	4
ASR-12		<10	<1	<0.01	<10	0.39	2130	<1	0.01	1375	20	3	<0.01	4	7
ASR-13		<10	<1	<0.01	<10	0.43	539	<1	0.01	864	40	<2	<0.01	6	2
ASR-14		<10	<1	0.01	<10	0.50	877	<1	0.01	2670	90	2	<0.01	<2	9
ASR-15		<10	<1	<0.01	<10	0.61	1395	<1	0.01	828	100	<2	0.01	7	10
ASR-16		<10	<1	<0.01	<10	0.63	996	<1	0.01	1950	70	<2	<0.01	6	11
ASR-17		<10	<1	<0.01	<10	13.45	401	<1	<0.01	1440	10	<2	<0.01	9	7



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To: KREFT, BERNIE
 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 3 - C
 Total # Pages: 3 (A - C)
 Finalized Date: 4-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199037

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
BBR-07		<20	<0.01	<10	<10	5	<10	25
BBR-08		<20	<0.01	<10	<10	1	<10	3
BBR-09		<20	<0.01	<10	<10	14	<10	66
ASR-01		<20	0.06	<10	<10	6	<10	49
ASR-02		<20	<0.01	<10	<10	21	<10	37
ASR-03		<20	<0.01	<10	<10	102	<10	23
ASR-04		<20	<0.01	<10	<10	50	<10	38
ASR-05		<20	<0.01	<10	<10	114	<10	71
ASR-06		<20	<0.01	<10	<10	35	<10	63
ASR-07		<20	0.01	<10	<10	18	<10	23
ASR-08		<20	<0.01	<10	<10	85	<10	139
ASR-09		<20	<0.01	<10	<10	20	<10	32
ASR-10		<20	<0.01	<10	10	74	<10	105
ASR-11		<20	0.01	<10	<10	20	<10	48
ASR-12		<20	<0.01	<10	<10	49	<10	127
ASR-13		<20	<0.01	<10	<10	17	<10	36
ASR-14		<20	<0.01	<10	10	29	<10	26
ASR-15		<20	<0.01	<10	10	47	<10	79
ASR-16		<20	<0.01	<10	10	36	<10	45
ASR-17		<20	0.01	<10	<10	30	<10	14



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To: KREFT, BERNIE
 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 3 - A
 Total # Pages: 5 (A - C)
 Finalized Date: 12-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199038

Sample Description	Method Analyte Units LOR	WEI-21	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	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
CLBD-41		0.32	0.007	<0.2	2.63	35	<10	430	<0.5	<2	0.36	<0.5	40	292	61	6.23
CLBD-42		0.36	<0.005	<0.2	3.11	18	<10	340	<0.5	<2	0.48	<0.5	37	231	155	6.37
CLBD-43		0.44	<0.005	<0.2	1.91	19	<10	380	0.5	<2	0.43	<0.5	21	119	59	3.99
CLBD-44		0.36	<0.005	<0.2	2.21	21	<10	330	<0.5	<2	0.57	<0.5	31	147	91	5.15
CLBD-45		0.44	0.008	0.2	1.24	364	<10	510	3.3	<2	0.15	<0.5	165	764	48	10.40
CLBD-46		0.36	0.005	<0.2	2.05	31	<10	360	<0.5	<2	0.32	<0.5	48	239	42	5.44
CLBD-47		0.30	0.012	0.5	1.05	390	20	320	0.7	<2	0.15	<0.5	151	816	29	7.29
CLBD-48		0.26	<0.005	0.2	0.64	101	10	200	<0.5	<2	1.03	<0.5	67	772	15	5.47
CLBD-49		0.28	0.005	<0.2	1.17	23	80	140	<0.5	<2	0.11	<0.5	102	1035	15	3.68
CLBD-50		0.28	<0.005	<0.2	1.27	17	30	180	<0.5	<2	0.23	<0.5	33	510	14	3.08
BkD-01		0.16	<0.005	0.3	1.05	29	<10	410	<0.5	<2	0.18	<0.5	19	20	48	3.80
BkD-02		0.28	0.009	0.2	1.00	23	<10	230	<0.5	<2	0.10	<0.5	11	15	43	3.70
BkD-03		0.34	<0.005	<0.2	0.83	10	<10	170	<0.5	<2	0.20	<0.5	8	18	25	2.84
BkD-04		0.32	<0.005	<0.2	0.74	7	<10	140	<0.5	<2	0.31	<0.5	8	17	33	2.13
BASD-03		0.12	<0.005	0.3	0.95	10	<10	450	<0.5	<2	1.11	0.7	8	29	28	1.95
BASD-04		0.28	0.025	0.3	0.79	16	<10	390	<0.5	<2	2.12	0.6	14	63	26	2.37
BBD-01		0.30	0.009	<0.2	1.55	10	<10	140	<0.5	<2	0.09	<0.5	9	36	34	2.72
BBD-02		0.30	0.008	<0.2	1.32	17	<10	90	<0.5	<2	0.11	<0.5	11	27	53	2.58
BBD-03		0.26	0.026	<0.2	0.91	9	<10	90	<0.5	<2	0.12	<0.5	7	20	38	1.81
BBD-04		0.36	0.021	<0.2	0.94	15	<10	90	<0.5	<2	0.08	<0.5	11	21	57	2.07
BBD-05		0.26	0.017	0.3	1.42	18	<10	150	<0.5	<2	0.07	<0.5	17	25	85	2.57
BBD-06		0.42	0.009	0.5	1.70	21	<10	120	<0.5	<2	0.06	<0.5	17	27	119	3.03
BBD-07		0.32	<0.005	0.2	1.39	12	<10	90	<0.5	<2	0.13	<0.5	8	32	30	2.50
BBD-08		0.34	0.292	<0.2	1.27	15	<10	120	<0.5	<2	0.11	<0.5	11	24	60	2.24
BBD-09		0.34	0.013	<0.2	1.49	14	<10	130	<0.5	<2	0.13	<0.5	11	34	57	2.72
BBD-10		0.40	0.010	<0.2	1.60	13	<10	140	<0.5	<2	0.21	<0.5	11	30	49	2.49
BBD-11		0.32	0.040	<0.2	1.32	16	<10	140	<0.5	<2	0.12	<0.5	12	27	67	2.54
BBD-12		0.44	<0.005	0.2	1.15	10	<10	120	<0.5	<2	0.07	<0.5	9	24	45	2.33
BBD-13		0.28	0.009	<0.2	1.18	8	<10	150	<0.5	<2	0.08	<0.5	7	28	30	2.75
BBD-14		0.30	0.011	<0.2	1.63	15	<10	160	<0.5	<2	0.08	<0.5	12	35	55	2.70
BBD-15		0.26	0.008	0.3	1.33	10	<10	130	<0.5	<2	0.07	<0.5	7	27	37	2.45
BBD-16		0.30	0.011	0.3	1.42	16	<10	110	<0.5	<2	0.08	<0.5	9	30	47	2.64
BBD-17		0.28	<0.005	<0.2	1.27	9	<10	140	<0.5	<2	0.11	<0.5	7	29	27	2.39
BBD-18		0.30	0.011	<0.2	1.39	16	<10	130	<0.5	<2	0.06	<0.5	7	28	42	2.59
BBD-19		0.26	<0.005	<0.2	1.16	12	<10	240	<0.5	<2	0.22	0.5	6	30	27	2.37
BBD-20		0.34	0.010	<0.2	1.28	18	<10	270	<0.5	<2	0.30	<0.5	9	27	47	2.73
BBD-21		0.30	0.054	<0.2	1.99	30	<10	360	<0.5	<2	0.28	0.5	12	37	85	3.57
BBD-22		0.30	0.008	0.3	1.29	17	<10	270	<0.5	<2	0.18	0.5	9	34	64	2.79
BBD-23		0.32	0.009	<0.2	1.56	13	<10	190	<0.5	<2	0.12	<0.5	7	27	48	2.61
BBD-24		0.28	0.006	<0.2	1.35	16	<10	180	<0.5	<2	0.10	<0.5	7	26	48	2.59



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 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 3 - B
 Total # Pages: 5 (A - C)
 Finalized Date: 12-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199038

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga 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	Sr ppm 1
CLBD-41		10	<1	0.07	10	2.29	965	<1	0.01	448	480	3	0.01	19	18	18
CLBD-42		10	<1	0.05	10	2.61	1060	<1	0.01	214	800	3	0.01	7	17	27
CLBD-43		10	<1	0.05	10	1.07	862	<1	0.01	233	520	6	0.01	5	11	32
CLBD-44		10	<1	0.06	10	1.33	1060	<1	0.01	418	570	6	0.01	4	14	38
CLBD-45		<10	2	0.04	10	0.47	2770	1	0.01	2720	170	7	0.02	262	30	14
CLBD-46		10	<1	0.06	10	1.79	1050	<1	0.01	698	340	3	0.01	20	17	23
CLBD-47		<10	1	0.04	10	4.39	2440	<1	0.01	3580	190	7	0.02	278	16	15
CLBD-48		<10	<1	0.03	<10	6.83	989	<1	0.01	2240	310	2	0.03	60	10	37
CLBD-49		<10	<1	0.04	<10	15.40	789	<1	0.01	1540	170	3	0.02	4	8	9
CLBD-50		<10	<1	0.05	10	6.68	462	<1	0.02	628	320	5	0.02	4	7	18
BkD-01		<10	<1	0.08	30	0.22	1010	4	0.01	56	760	24	0.02	<2	2	29
BkD-02		<10	<1	0.08	30	0.23	559	4	0.01	45	580	25	0.06	2	2	20
BkD-03		<10	<1	0.05	20	0.24	379	2	0.01	24	620	13	0.03	<2	3	26
BkD-04		<10	<1	0.05	20	0.25	286	1	0.02	24	550	13	0.02	<2	3	25
BASD-03		<10	<1	0.04	10	0.47	384	1	0.03	43	660	9	0.05	<2	2	65
BASD-04		<10	<1	0.05	10	0.93	420	1	0.03	128	950	8	0.03	2	3	88
BBD-01		<10	<1	0.11	10	0.41	810	2	0.01	29	730	7	0.04	<2	1	9
BBD-02		<10	<1	0.06	10	0.39	486	3	0.01	29	660	8	0.02	<2	2	10
BBD-03		<10	<1	0.04	10	0.27	310	2	0.01	20	360	5	0.01	<2	2	10
BBD-04		<10	<1	0.04	10	0.31	520	3	0.01	26	260	7	0.01	<2	2	10
BBD-05		<10	<1	0.06	10	0.34	687	3	0.01	37	330	8	0.02	<2	3	10
BBD-06		<10	1	0.07	10	0.45	542	3	0.01	49	560	10	0.02	2	3	8
BBD-07		<10	<1	0.06	10	0.59	575	2	0.01	22	960	8	0.02	<2	2	9
BBD-08		<10	<1	0.06	10	0.36	476	3	0.01	33	460	7	0.02	<2	2	10
BBD-09		<10	<1	0.08	10	0.44	538	3	0.01	37	780	8	0.02	<2	2	11
BBD-10		<10	<1	0.07	10	0.54	512	2	0.01	35	620	7	0.02	<2	3	13
BBD-11		<10	<1	0.06	10	0.41	572	3	0.01	36	520	7	0.02	<2	2	11
BBD-12		<10	<1	0.07	10	0.34	636	2	0.01	27	900	8	0.05	<2	<1	7
BBD-13		10	1	0.08	10	0.30	524	2	0.01	19	610	7	0.03	<2	1	8
BBD-14		<10	1	0.07	10	0.48	572	3	0.01	44	490	7	0.03	<2	2	8
BBD-15		<10	<1	0.06	10	0.39	377	2	0.01	20	840	6	0.01	<2	2	7
BBD-16		<10	<1	0.06	10	0.45	404	2	0.01	25	570	7	0.02	<2	2	8
BBD-17		<10	<1	0.08	10	0.39	518	2	0.01	22	690	6	0.02	<2	2	9
BBD-18		<10	<1	0.06	10	0.44	277	2	0.01	24	430	6	0.03	2	1	6
BBD-19		10	<1	0.08	10	0.36	601	2	0.01	18	620	6	0.05	<2	1	18
BBD-20		<10	<1	0.06	10	0.55	623	2	0.01	23	610	5	0.03	<2	1	21
BBD-21		10	<1	0.09	10	0.59	686	3	0.02	39	1100	7	0.06	<2	2	22
BBD-22		<10	<1	0.07	10	0.50	665	3	0.01	31	930	6	0.06	<2	1	15
BBD-23		<10	<1	0.06	10	0.42	407	3	0.01	24	710	6	0.05	<2	1	11
BBD-24		<10	<1	0.05	10	0.43	475	3	0.01	23	610	6	0.03	<2	1	9



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To: KREFT, BERNIE
 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 3 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 12-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199038

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CLBD-41		<20	0.11	<10	<10	101	<10	86
CLBD-42		<20	0.05	<10	<10	113	<10	102
CLBD-43		<20	0.07	<10	<10	87	<10	93
CLBD-44		<20	0.07	<10	<10	108	<10	116
CLBD-45		<20	0.02	<10	<10	82	<10	66
CLBD-46		<20	0.07	<10	<10	82	<10	80
CLBD-47		<20	0.02	<10	<10	50	<10	34
CLBD-48		<20	0.01	<10	<10	30	<10	25
CLBD-49		<20	0.02	<10	<10	38	<10	23
CLBD-50		<20	0.05	<10	<10	46	<10	49
BkD-01		<20	0.02	<10	<10	27	<10	106
BkD-02		<20	0.02	<10	<10	24	<10	101
BkD-03		<20	0.04	<10	<10	34	<10	58
BkD-04		<20	0.04	<10	<10	28	<10	58
BASD-03		<20	0.04	<10	<10	35	<10	54
BASD-04		<20	0.05	<10	<10	41	<10	63
BBD-01		<20	0.04	<10	<10	45	<10	93
BBD-02		<20	0.03	<10	<10	33	<10	73
BBD-03		<20	0.04	<10	<10	26	<10	46
BBD-04		<20	0.03	<10	<10	26	<10	61
BBD-05		<20	0.03	<10	<10	31	<10	74
BBD-06		<20	0.03	<10	<10	33	<10	107
BBD-07		<20	0.05	<10	<10	38	<10	56
BBD-08		<20	0.03	<10	<10	27	<10	65
BBD-09		<20	0.04	<10	<10	36	<10	73
BBD-10		<20	0.07	<10	<10	38	<10	61
BBD-11		<20	0.03	<10	<10	30	<10	73
BBD-12		<20	0.02	<10	<10	30	<10	70
BBD-13		<20	0.07	<10	<10	44	<10	68
BBD-14		<20	0.03	<10	<10	38	<10	77
BBD-15		<20	0.04	<10	<10	40	<10	61
BBD-16		<20	0.04	<10	<10	37	<10	74
BBD-17		<20	0.06	<10	<10	40	<10	70
BBD-18		<20	0.03	<10	<10	36	<10	72
BBD-19		<20	0.04	<10	<10	45	<10	84
BBD-20		<20	0.03	<10	<10	34	<10	80
BBD-21		<20	0.02	<10	<10	43	<10	102
BBD-22		<20	0.02	<10	<10	34	<10	107
BBD-23		<20	0.02	<10	<10	34	<10	67
BBD-24		<20	0.03	<10	<10	34	<10	71



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To: KREFT, BERNIE
 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 4 - A
 Total # Pages: 5 (A - C)
 Finalized Date: 12-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199038

Sample Description	Method Analyte Units LOR	WEI-21	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 WL kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
BBD-25		0.34	0.005	<0.2	1.22	9	<10	210	<0.5	<2	0.10	0.7	8	28	47	2.48
BBD-26		0.32	0.008	0.2	1.13	14	<10	220	<0.5	<2	0.19	1.0	10	27	62	2.65
BBD-27		0.32	0.015	<0.2	1.13	19	<10	140	<0.5	<2	0.18	<0.5	11	24	84	2.84
BSAD-01		0.20	0.005	0.7	0.77	19	<10	360	<0.5	<2	2.49	1.9	10	42	42	2.17
BSAD-02		0.20	0.013	0.6	0.70	24	<10	390	<0.5	<2	3.89	1.5	9	34	41	2.21
BSAD-05		0.24	0.007	0.3	0.62	25	<10	510	<0.5	<2	6.40	<0.5	100	1015	15	3.99
BSAD-06		0.22	0.052	0.2	0.40	24	10	460	<0.5	2	5.37	<0.5	171	1295	14	6.47
BSAD-07		0.24	0.007	1.3	1.24	19	<10	730	<0.5	<2	1.92	2.3	17	79	53	3.24
BSAD-10		0.28	0.006	<0.2	1.10	61	<10	280	<0.5	<2	1.13	<0.5	43	197	33	2.92
BSAD-11		0.24	0.007	0.3	1.17	49	<10	230	<0.5	<2	1.27	<0.5	38	226	33	2.83
BSAD-12		0.24	<0.005	<0.2	1.71	8	<10	240	<0.5	<2	0.61	<0.5	11	29	33	3.40
BSAD-13		0.28	<0.005	<0.2	0.69	344	<10	270	<0.5	<2	2.24	<0.5	125	1055	21	4.45
BSAD-14		0.20	<0.005	0.2	0.27	261	<10	260	<0.5	2	2.42	<0.5	47	48	68	3.27
BSAD-15		0.20	0.011	<0.2	1.06	298	<10	230	<0.5	<2	0.95	<0.5	35	125	25	2.41
BSAD-16		0.16	<0.005	<0.2	1.64	119	<10	250	0.5	<2	1.81	<0.5	22	82	32	3.16
BSAD-17		0.18	<0.005	<0.2	2.27	7	<10	270	0.5	<2	0.49	<0.5	16	68	39	4.14
BSAD-18		0.12	0.006	0.4	0.53	21	<10	390	<0.5	<2	0.51	0.6	11	14	64	2.44
BSAD-19		0.30	0.021	0.5	0.50	25	<10	290	<0.5	<2	0.62	0.6	11	12	73	2.79
ASD-01		0.22	0.008	0.4	1.00	14	<10	400	<0.5	<2	1.70	1.5	17	124	33	2.46
ASD-02		0.40	<0.005	1.3	0.79	19	<10	250	<0.5	<2	5.26	2.0	7	20	49	1.88
ASD-03		0.34	0.005	1.4	0.67	10	<10	240	<0.5	<2	10.8	4.1	5	18	49	1.34
ASD-04		0.22	<0.005	0.7	1.14	9	<10	290	<0.5	<2	3.42	0.8	8	22	32	1.97
ASD-05		0.34	0.007	1.2	0.63	16	<10	280	<0.5	<2	11.8	1.8	6	18	47	1.21
ASD-06		0.24	0.014	0.2	0.98	20	10	270	<0.5	<2	0.95	<0.5	24	218	31	2.96
ASD-07		0.38	0.007	0.2	0.81	10	20	370	<0.5	<2	0.39	<0.5	34	356	22	3.70
ASD-08		0.28	<0.005	<0.2	2.52	13	<10	300	<0.5	<2	0.38	<0.5	21	54	41	4.18
ASD-09		0.44	0.013	<0.2	1.30	15	<10	350	<0.5	<2	0.28	0.5	10	52	30	2.13
ASD-10		0.24	0.007	<0.2	1.30	10	<10	330	<0.5	<2	0.30	<0.5	7	38	26	2.05
ASD-11		0.34	0.006	<0.2	1.41	18	<10	720	0.5	<2	0.31	<0.5	8	47	29	2.43
ASD-12		0.24	0.005	0.9	0.98	11	<10	320	<0.5	<2	1.02	1.9	6	37	33	2.08
ASD-13		0.30	0.006	1.5	1.06	14	<10	370	0.6	<2	2.07	3.2	10	40	61	2.97
ASD-14		0.30	0.008	0.9	0.92	20	<10	740	<0.5	<2	5.38	2.5	20	213	54	2.41
ASD-15		0.30	<0.005	0.6	0.88	17	<10	430	<0.5	<2	5.67	1.4	22	159	45	2.94
ASD-16		0.24	0.010	0.9	1.15	27	<10	210	<0.5	<2	2.13	0.9	26	118	77	3.87
ASD-17		0.32	0.008	0.8	1.06	19	<10	470	<0.5	<2	3.18	1.0	19	124	45	2.66
ASD-18		0.22	0.012	2.1	0.81	15	<10	300	<0.5	<2	1.65	0.8	12	46	62	2.58
ASD-19		0.32	0.011	0.6	1.04	15	<10	310	<0.5	<2	1.19	<0.5	10	40	50	2.51
ASD-20		0.40	<0.005	0.3	1.81	15	<10	240	<0.5	<2	0.65	<0.5	17	122	44	3.78
ASD-21		0.46	0.005	0.6	2.14	7	<10	540	<0.5	<2	0.61	<0.5	21	78	33	3.95
ASD-22		0.28	0.006	0.3	2.27	10	<10	490	0.5	<2	0.35	<0.5	23	83	47	4.46



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To: KREFT, BERNIE
 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 4 - B
 Total # Pages: 5 (A - C)
 Finalized Date: 12-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199038

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga 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	Sr ppm 1
BBD-25		10	<1	0.07	10	0.33	999	2	0.01	20	1430	7	0.03	<2	1	9
BBD-26		<10	<1	0.09	10	0.45	671	3	0.01	27	790	7	0.04	<2	1	15
BBD-27		<10	1	0.08	10	0.41	812	4	0.01	30	820	9	0.04	<2	1	13
BSAD-01		<10	1	0.07	10	1.04	344	7	0.02	79	2000	11	0.03	3	3	110
BSAD-02		<10	<1	0.06	10	1.21	384	11	0.02	73	1830	12	0.03	3	3	149
BSAD-05		<10	<1	0.05	<10	8.75	337	1	0.02	1725	410	3	0.02	<2	6	279
BSAD-06		<10	1	0.04	<10	10.60	548	<1	0.02	2560	290	5	0.02	5	5	304
BSAD-07		<10	1	0.06	20	1.01	378	6	0.02	185	1680	22	0.14	3	4	131
BSAD-10		<10	<1	0.04	10	2.34	341	1	0.02	649	280	10	0.02	8	4	65
BSAD-11		<10	<1	0.04	20	2.00	370	1	0.02	622	580	13	0.02	7	3	60
BSAD-12		<10	<1	0.04	50	0.80	415	1	0.02	35	520	19	0.02	<2	3	37
BSAD-13		<10	<1	0.02	<10	9.42	565	<1	0.02	2840	120	4	0.02	8	7	101
BSAD-14		<10	<1	0.07	10	0.85	1355	<1	0.01	458	720	15	0.03	3	5	132
BSAD-15		<10	<1	0.04	10	1.32	374	<1	0.02	459	600	7	0.03	10	3	48
BSAD-16		<10	<1	0.06	30	1.09	352	1	0.02	221	400	13	0.03	5	4	73
BSAD-17		10	<1	0.05	50	0.96	383	1	0.02	64	490	27	0.02	7	2	33
BSAD-18		<10	<1	0.04	10	0.17	651	2	0.02	42	660	17	0.03	<2	2	60
BSAD-19		<10	<1	0.04	10	0.19	801	2	0.01	48	830	21	0.04	<2	2	61
ASD-01		<10	1	0.06	20	1.55	430	1	0.02	212	880	12	0.05	4	3	84
ASD-02		<10	<1	0.09	10	0.75	347	7	0.02	49	3680	17	0.03	19	3	186
ASD-03		<10	1	0.13	10	0.45	235	8	0.02	45	5300	11	0.03	6	2	448
ASD-04		<10	<1	0.06	10	0.48	278	2	0.02	32	1110	10	0.04	<2	3	115
ASD-05		<10	1	0.07	10	0.56	214	3	0.02	41	2170	8	0.06	4	2	313
ASD-06		<10	<1	0.05	20	2.80	413	3	0.02	402	720	12	0.02	5	4	53
ASD-07		<10	1	0.05	20	4.79	499	<1	0.02	594	470	9	0.02	6	4	25
ASD-08		10	<1	0.09	40	1.96	618	2	0.02	113	730	22	0.03	6	3	26
ASD-09		<10	<1	0.04	10	0.47	517	1	0.02	53	310	10	0.01	<2	4	21
ASD-10		<10	<1	0.04	10	0.37	269	1	0.02	29	280	10	0.01	<2	4	21
ASD-11		<10	1	0.04	10	0.42	413	1	0.02	46	510	9	0.01	2	5	25
ASD-12		<10	1	0.07	10	0.24	269	2	0.02	54	2270	9	0.01	2	4	74
ASD-13		<10	<1	0.11	30	0.27	329	5	0.01	81	3320	14	0.02	2	5	159
ASD-14		<10	<1	0.06	20	3.17	326	4	0.01	328	1780	11	0.03	4	3	257
ASD-15		<10	<1	0.06	20	2.67	324	7	0.02	341	1170	15	0.03	3	3	160
ASD-16		<10	1	0.04	10	2.07	427	7	0.02	251	760	16	0.04	4	3	90
ASD-17		<10	<1	0.05	10	1.88	356	4	0.02	245	850	11	0.05	4	3	134
ASD-18		<10	1	0.06	10	0.82	222	6	0.02	100	720	11	0.04	2	3	80
ASD-19		<10	<1	0.04	10	0.69	336	2	0.02	84	570	9	0.03	2	3	67
ASD-20		10	<1	0.06	10	1.69	463	<1	0.01	58	670	14	0.01	<2	8	80
ASD-21		10	<1	0.10	30	1.77	853	1	0.01	27	670	17	0.23	<2	6	32
ASD-22		10	<1	0.06	20	1.69	531	2	0.01	32	440	12	0.08	<2	7	21



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To: KREFT, BERNIE
 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 4 - C
 Total # Pages: 5 (A - C)
 Finalized Date: 12-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199038

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
BBD-25		<20	0.05	<10	<10	43	<10	91
BBD-26		<20	0.03	<10	<10	32	<10	143
BBD-27		<20	0.03	<10	<10	31	<10	106
BSAD-01		<20	0.03	<10	<10	33	<10	94
BSAD-02		<20	0.03	<10	<10	31	<10	107
BSAD-05		<20	0.01	<10	<10	28	<10	38
BSAD-06		<20	0.01	<10	<10	23	<10	30
BSAD-07		<20	0.01	<10	10	31	<10	151
BSAD-10		<20	0.03	<10	<10	36	<10	46
BSAD-11		<20	0.02	<10	<10	33	<10	68
BSAD-12		<20	0.02	<10	<10	33	<10	66
BSAD-13		<20	0.01	<10	<10	30	<10	19
BSAD-14		<20	<0.01	<10	<10	23	<10	68
BSAD-15		<20	0.03	<10	<10	40	<10	48
BSAD-16		<20	0.03	<10	<10	40	<10	57
BSAD-17		<20	<0.01	<10	<10	24	<10	65
BSAD-18		<20	0.02	<10	<10	22	<10	106
BSAD-19		<20	0.02	<10	<10	18	<10	130
ASD-01		<20	0.02	<10	<10	27	<10	83
ASD-02		<20	0.02	<10	<10	31	<10	155
ASD-03		<20	0.01	<10	<10	31	<10	151
ASD-04		<20	0.03	<10	<10	36	<10	62
ASD-05		<20	0.01	<10	<10	23	<10	71
ASD-06		<20	0.03	<10	<10	33	<10	58
ASD-07		<20	0.01	<10	<10	22	<10	47
ASD-08		20	<0.01	<10	<10	27	<10	89
ASD-09		<20	0.04	<10	<10	37	<10	107
ASD-10		<20	0.04	<10	<10	39	<10	56
ASD-11		<20	0.05	<10	<10	45	<10	103
ASD-12		<20	0.03	<10	<10	35	<10	116
ASD-13		<20	0.01	<10	<10	46	<10	182
ASD-14		<20	0.01	<10	<10	34	<10	117
ASD-15		<20	0.01	<10	<10	32	<10	92
ASD-16		<20	0.01	<10	<10	22	<10	116
ASD-17		<20	0.01	<10	<10	27	<10	79
ASD-18		<20	0.02	<10	<10	27	<10	108
ASD-19		<20	0.03	<10	<10	36	<10	66
ASD-20		<20	0.14	<10	<10	58	<10	90
ASD-21		<20	<0.01	<10	<10	42	<10	76
ASD-22		<20	0.01	<10	<10	64	<10	64



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To: KREFT, BERNIE
 #1 LOCUST PLACE
 WHITEHORSE YT Y1A 5C4

Page: 5 - A
 Total # Pages: 5 (A - C)
 Finalized Date: 12-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199038

Sample Description	Method Analyte Units LOR	WEI-21	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	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
ASD-23		0.36	0.008	1.3	1.37	30	<10	220	<0.5	<2	0.39	2.1	15	26	87	3.69
ASD-24		0.24	0.009	0.8	1.51	25	<10	230	<0.5	<2	0.29	2.8	13	36	81	3.17
ASD-25		0.24	0.023	<0.2	0.38	63	<10	1520	<0.5	<2	0.36	<0.5	25	10	167	3.78
ASD-26		0.42	0.023	<0.2	0.59	37	<10	1270	<0.5	<2	1.20	<0.5	16	14	121	4.57
ASD-27		0.24	0.005	<0.2	1.53	22	<10	330	<0.5	<2	0.69	<0.5	22	95	57	3.85
ASD-28		0.32	<0.005	<0.2	1.36	33	<10	610	<0.5	<2	1.92	<0.5	43	268	79	4.53
ASD-29		0.36	<0.005	<0.2	1.55	117	<10	510	<0.5	<2	2.40	<0.5	65	511	94	4.53
ASD-31		0.28	<0.005	<0.2	1.64	84	<10	850	0.5	<2	1.79	<0.5	46	177	94	6.26
ASD-32		0.34	0.005	<0.2	1.08	14	<10	510	<0.5	<2	0.80	<0.5	16	74	44	3.09
ASD-33		0.30	0.018	<0.2	1.08	119	<10	200	<0.5	<2	1.17	0.5	81	672	148	4.14
ASD-34		0.34	0.008	<0.2	0.91	116	<10	520	<0.5	<2	1.75	0.5	56	375	22	3.55
ASD-35		0.30	0.021	<0.2	1.19	76	<10	260	0.5	<2	0.94	<0.5	66	452	18	3.38
ASD-36		0.34	0.006	0.6	1.23	38	<10	520	0.6	<2	1.76	0.6	35	181	37	3.50
ASD-37		0.30	<0.005	0.7	1.47	15	<10	450	0.5	<2	0.91	0.5	9	32	40	2.78
ASD-38		0.36	0.015	0.6	1.07	48	<10	870	0.5	<2	2.11	1.0	17	103	46	2.92
ASD-39		0.32	<0.005	<0.2	1.09	22	<10	290	<0.5	<2	0.81	<0.5	20	83	29	2.63
ASD-40		0.32	<0.005	<0.2	1.14	183	<10	730	0.5	<2	1.79	<0.5	67	396	44	4.24
ASD-41		0.30	<0.005	<0.2	1.14	31	<10	340	<0.5	<2	0.84	<0.5	25	99	30	2.52
ASD-42		0.34	<0.005	<0.2	1.00	13	<10	300	<0.5	<2	1.00	<0.5	12	45	28	2.30
BSAS-01		0.40	0.019	<0.2	0.91	7	<10	340	<0.5	<2	0.43	<0.5	10	45	12	2.13
BSAS-02		0.34	<0.005	<0.2	0.85	12	<10	240	<0.5	<2	0.57	0.5	9	26	18	2.22
BSAS-03		0.28	0.021	<0.2	0.73	52	<10	190	<0.5	<2	0.34	<0.5	19	39	38	3.97
BSAS-04		0.42	<0.005	0.2	0.84	7	<10	360	<0.5	<2	0.41	<0.5	8	42	12	1.97
BSAS-05		0.32	<0.005	<0.2	0.78	8	<10	230	<0.5	<2	0.54	<0.5	8	23	14	1.95
BSAS-06		0.36	0.055	<0.2	0.73	46	<10	190	<0.5	<2	0.36	<0.5	17	39	36	3.78
ASS-01		0.60	0.012	<0.2	1.19	7	<10	320	<0.5	<2	0.53	<0.5	9	48	26	2.57
ASS-02		0.34	0.007	0.3	1.04	14	<10	270	<0.5	<2	0.65	0.9	14	35	35	3.38
ASS-03		0.60	0.005	0.2	1.19	9	<10	320	<0.5	<2	0.53	<0.5	10	50	23	2.63
ASS-04		0.40	<0.005	0.2	1.01	15	<10	260	<0.5	<2	0.92	1.0	15	34	39	3.54



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Page: 5 - B
 Total # Pages: 5 (A - C)
 Finalized Date: 12-SEP-2012
 Account: KREBER

CERTIFICATE OF ANALYSIS VA12199038

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
ASD-23		<10	<1	0.05	20	0.99	272	21	0.02	65	1420	30	0.06	5	3	197
ASD-24		<10	<1	0.09	10	1.02	476	15	0.02	60	730	17	0.03	<2	3	38
ASD-25		<10	<1	0.06	10	0.07	10350	2	0.01	127	590	72	0.06	6	3	39
ASD-26		<10	<1	0.07	10	0.25	13050	3	0.02	97	1670	31	0.07	<2	3	124
ASD-27		<10	<1	0.08	20	1.12	1125	<1	0.02	97	750	12	0.03	<2	6	25
ASD-28		<10	<1	0.07	10	2.41	877	2	<0.01	523	560	10	0.01	3	11	54
ASD-29		<10	<1	0.03	10	2.74	709	1	<0.01	1130	450	5	0.02	7	12	45
ASD-31		<10	<1	0.03	10	1.46	1605	<1	<0.01	512	820	8	0.01	8	23	37
ASD-32		<10	<1	0.04	10	0.72	650	<1	0.01	144	500	6	0.01	<2	8	31
ASD-33		<10	<1	0.01	10	3.38	784	2	<0.01	1375	590	42	0.01	4	8	35
ASD-34		<10	<1	0.02	10	4.97	611	<1	0.01	1030	330	5	0.02	4	6	45
ASD-35		<10	<1	0.03	10	6.65	473	1	0.01	1180	140	4	<0.01	4	7	29
ASD-36		<10	<1	0.05	10	1.43	551	2	0.01	576	350	9	<0.01	5	7	56
ASD-37		<10	<1	0.05	10	0.60	287	2	0.02	54	360	12	0.01	4	4	41
ASD-38		<10	<1	0.05	20	1.03	323	3	0.01	286	770	18	0.02	4	4	66
ASD-39		<10	<1	0.05	10	1.20	384	1	0.02	298	470	8	0.02	2	4	37
ASD-40		<10	<1	0.03	10	3.21	855	1	0.01	1120	620	7	0.01	6	7	54
ASD-41		<10	<1	0.05	10	0.84	495	<1	0.02	218	620	6	0.01	2	4	39
ASD-42		<10	<1	0.04	10	0.69	422	1	0.02	46	680	6	<0.01	<2	4	47
BSAS-01		<10	<1	0.06	20	0.72	625	2	<0.01	25	730	11	0.01	<2	3	68
BSAS-02		<10	<1	0.05	10	0.51	568	2	<0.01	35	750	9	0.01	<2	3	38
BSAS-03		<10	<1	0.03	20	0.43	674	2	<0.01	64	870	25	0.01	2	3	33
BSAS-04		<10	<1	0.06	20	0.65	530	1	<0.01	22	670	11	0.02	<2	3	60
BSAS-05		<10	<1	0.04	10	0.45	416	1	0.01	29	720	7	0.01	<2	2	36
BSAS-06		<10	<1	0.03	20	0.42	611	2	<0.01	59	860	24	0.01	2	3	34
ASS-01		<10	<1	0.06	20	0.94	395	2	<0.01	29	860	14	0.02	2	4	48
ASS-02		<10	<1	0.05	20	0.77	614	7	<0.01	42	850	18	0.03	<2	3	59
ASS-03		<10	<1	0.06	10	0.95	420	2	<0.01	28	930	14	0.02	<2	4	47
ASS-04		<10	<1	0.05	20	0.81	761	8	<0.01	45	770	18	0.03	2	3	75



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Page: 5 - C
 Total # Pages: 5 (A - C)
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CERTIFICATE OF ANALYSIS VA12199038

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10
ASD-23		<20	0.01	<10	<10	51	<10
ASD-24		<20	0.02	<10	<10	53	<10
ASD-25		<20	<0.01	<10	10	15	<10
ASD-26		<20	0.01	<10	10	22	<10
ASD-27		<20	0.03	<10	<10	52	<10
ASD-28		<20	0.03	<10	<10	64	<10
ASD-29		<20	0.03	<10	<10	72	<10
ASD-31		<20	0.03	<10	<10	122	<10
ASD-32		<20	0.04	<10	<10	58	<10
ASD-33		<20	0.01	<10	<10	47	<10
ASD-34		<20	0.02	<10	<10	41	<10
ASD-35		<20	0.03	<10	<10	48	<10
ASD-36		<20	0.04	<10	<10	46	<10
ASD-37		<20	0.04	<10	<10	45	<10
ASD-38		<20	0.02	<10	<10	46	<10
ASD-39		<20	0.05	<10	<10	50	<10
ASD-40		<20	0.03	<10	<10	54	<10
ASD-41		<20	0.05	<10	<10	46	<10
ASD-42		<20	0.06	<10	<10	43	<10
BSAS-01		<20	0.07	<10	<10	31	<10
BSAS-02		<20	0.05	<10	<10	36	<10
BSAS-03		<20	0.02	<10	<10	28	<10
BSAS-04		<20	0.07	<10	<10	32	<10
BSAS-05		<20	0.05	<10	<10	35	<10
BSAS-06		<20	0.02	<10	<10	29	<10
ASS-01		<20	0.05	<10	<10	40	<10
ASS-02		<20	0.03	<10	<10	37	<10
ASS-03		<20	0.06	<10	<10	41	<10
ASS-04		<20	0.02	<10	<10	36	<10

