

**2012 GEOCHEMICAL ASSESSMENT REPORT
ON THE GOLD RUN PROJECT
Klondike Star Mineral Corp.
Klondike Gold Corp.**

Claims:

AIME	1 – 26	YC44707 – YC44732
FB	1 – 60	YC25506 – YC25565

Claim Owners: Klondike Star Mineral Corp. & Klondike Gold Corp.

Dawson Mining District
NTS Map Sheet 115O/10

Coordinates of the centre of the claim group are: 615000 E, 7068000 N
UTM NAD 83 zone 7

Field Work performed August 17 - 23, 2012

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1.0 EXECUTIVE SUMMARY

The author was engaged as a consultant by Klondike Star Mineral Corp. and Klondike Gold Corp. to conduct a gold exploration program in 2012 at the Gold Run claim group in the southeast Klondike area, Yukon. The claims cover an area that has produced substantial quantities of placer gold from the local streams, with placer mining continuing to present. Prospecting for the bedrock source of gold has occurred sporadically since 1896, with gold occurrences identified adjacent to the claims.

The 2012 work program was very limited, with a focus on soil and rock geochemistry. A few moderate gold in soil and rock anomalies were identified, including some multiple adjacent anomalous samples.

The best gold target on the property lies in a 1.5km northwest trend on the FB claims between gold zones identified on competitors ground. Anomalous gold in soils is found over a broad zone that crosses Gold Run creek between the DEB and GR claims. This trend should be tested with excavator trenches or mechanized auger drilling into bedrock.

2.0 INTRODUCTION

Exploration during 2012 was limited to two days of soil sampling and prospecting with a crew of 5 workers on the FB claims, in two areas on the west side of Gold Run creek.

Auger soil samples were collected at about 50m intervals, with a few select rock samples. The work was conducted to meet assessment requirements on the FB claims, and was filed to meet the October 9th deadline. This work was conducted by the author and four student assistants.

This report is to cover the 2012 assessment filing for the Gold Run group of claims, a contiguous block of 86 claims that straddles Gold Run creek in the Laskey creek area.

3.0 PROPERTY DESCRIPTION AND LOCATION

The Gold Run Project consists of a block of 60 FB & 26 AIME claims that straddles central Gold Run creek, from about 24 Pup to 51 Pup and includes most of Laskey creek. The claims lie on NTS map sheet 1150/10 within the Dawson mining district. Locations on the property are located by handheld GPS, using NAD 83 UTM coordinates. Property and claim location can be found in figures 1 and 2, and claim expiry dates in Table 1 below.

TABLE 1.

Gold Run Project Claim Summary		NTS 1150/10	
Claim Names	Owner	Grant Numbers	Expiry Date
FB 1 - 6	Klondike Gold Corp.	YC25506 - YC25511	2014-10-09
FB 7 - 60	Klondike Gold Corp.	YC25512 - YC25565	2013-10-09
AIME 1 - 26	Klondike Star Mineral Corp.	YC44707 - YC44732	2014-02-08

Expiry dates are contingent on acceptance of this assessment report.

figure 1. Location & figure 2 Claims

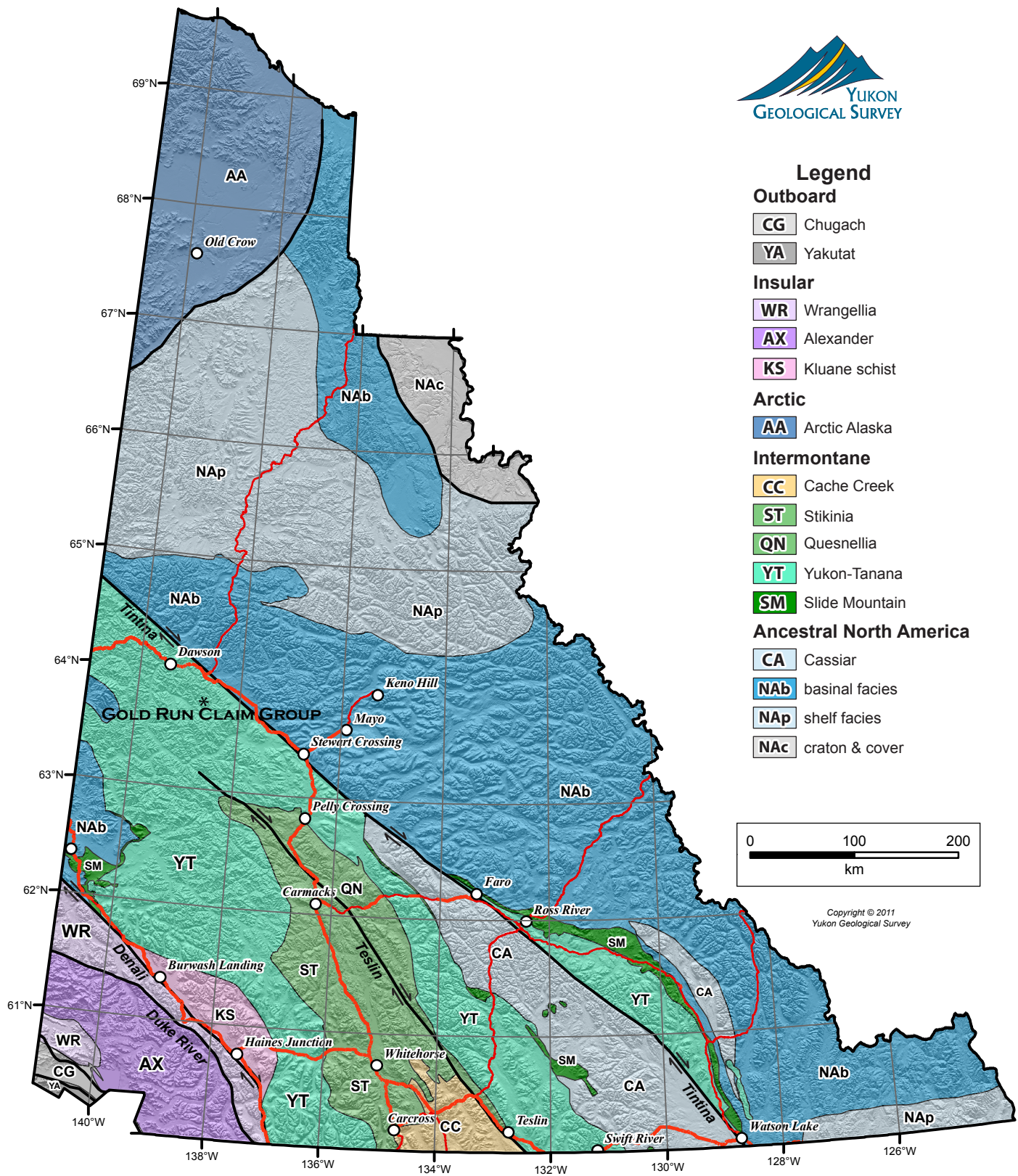
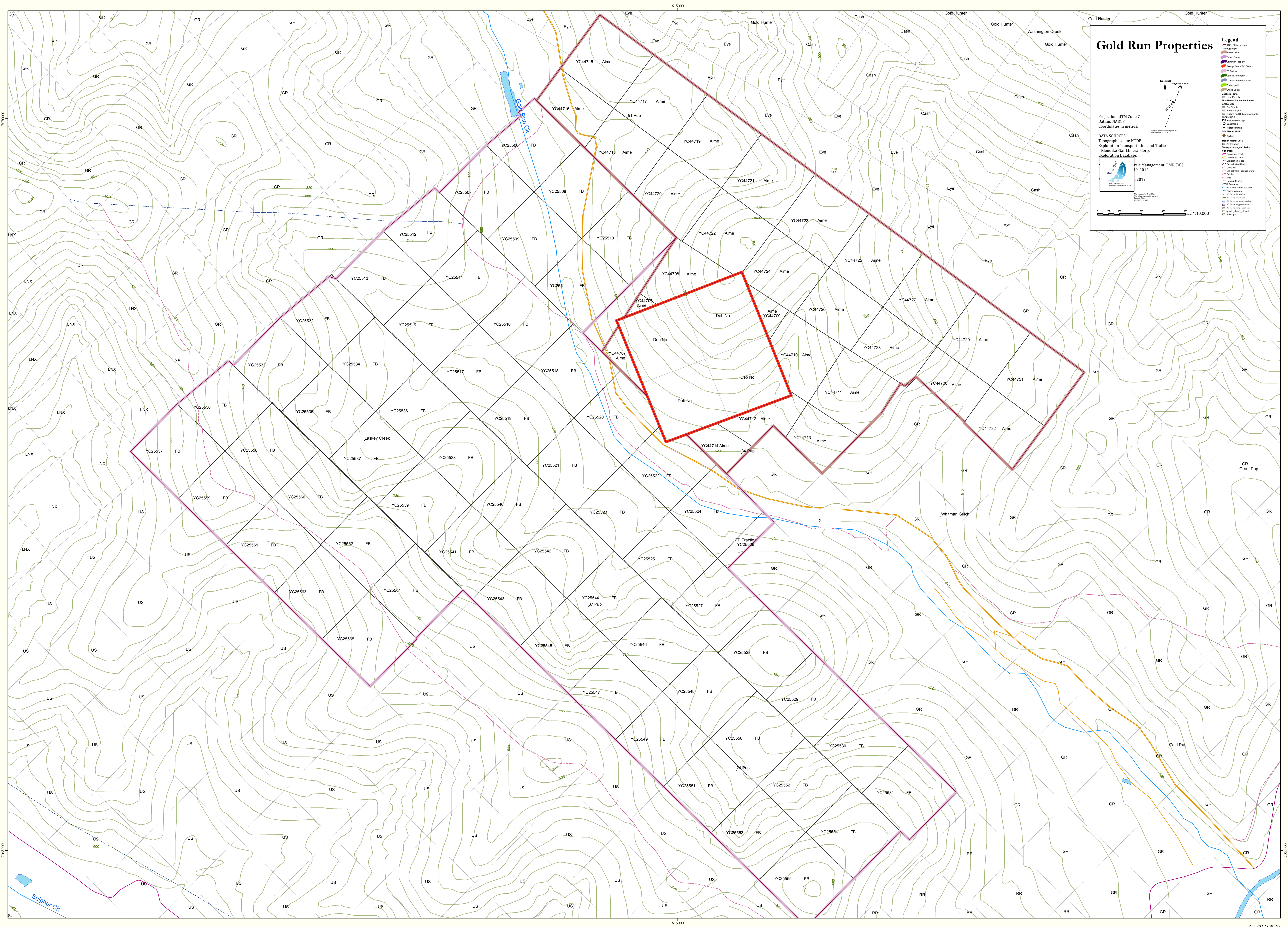


Figure 1. Location - Gold Run Claim Group



4.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

The Klondike Gold Fields have been the target of prospectors and placer gold miners since 1896. The region therefore, is very accessible by road and trail. Dawson City is approximately 480 km from Whitehorse along the Klondike Highway which is a completely sealed two-lane road. A 5000'x100' gravel surface lighted Yukon Government airfield at 1214' (370m) elevation is located in the Klondike River valley. Dawson is served by a scheduled service of twin-engined turboprop aircraft from Whitehorse and by highway there is a regular freight service.

The Gold Run claim block has a number of access points. The Hunker creek - Bonanza creek road and Dominion creek – Sulphur creek road are inter-connected government maintained loop roads that provide access from the Klondike Highway to the centre of the Klondike. The Gold Run creek road forks north off the Dominion creek road to provide the best access to the claims. An historic trail that is not maintained leaves the Sulphur creek road above Green Gulch and provides access across Dominion Mountain to the head of Gold Run creek. A third rough trail leaves lower Sulphur creek road and provides access to the ridge at the northwest part of the FB claims, with a spur that leads to the FB 23 claim.

The main roads are 2-wheel drive dirt and gravel roads and have significant traffic through the summer. They are not plowed in the winter, but are cleared and graded from about April until October. Many minor dirt trails, some requiring 4-wheel drive or ATV, branch from the main roads and provide a network which allows relatively easy access by vehicles and equipment to most areas on the claim block. There are several placer mines active on Gold Run creek, including a new mine that is starting on lower Laskey creek. Access trails are often re-routed by the miners. The local placer miners might be available to assist in exploration with provision of heavy equipment or logistical assistance.

The property is within Central Yukon Basin climatic zone, characterized by a sub-arctic climate, with normally low annual precipitation (approximately 400mm total precipitation). The workable exploration season extends from mid May until mid October, by which time nightly temperatures are below freezing and there may be a few centimeters of snow on the ground. Winter temperatures may drop to at least -40°C for up to six weeks in January and February. Summer rainfall is highly variable and unpredictable, with some years being sufficiently dry to cause water supply problems for placer mining operations.

Dawson City offers normal town facilities such as hotels, restaurants, grocery, clothing, building supplies and hardware stores, engineering supplies and two bulk fuel depots. The Yukon hydroelectric grid provides service to Dawson City and the Klondike valley.

The Klondike region consists of rugged topography of rounded hills and V-section valleys since this region was not recently glaciated. The hills have therefore a more subdued profile than the eastern Yukon, with cliffs being only prominent along the Yukon River valley. Weathering of

the region has had a lengthy history, resulting in few natural fresh rock exposures. The Gold Run project is situated in the Yukon Plateau ecoregion, part of the Boreal Cordillera ecozone (Smith et al, 2004).

Dawson City is on the Yukon River at 1050' (320m) elevation and the highest point near to the claims, King Solomon Dome, is at 4032' (1229m). Elevations on the claims range from a low of about 600m to a high of about 900m. The region surrounding the claims has been historically denuded of large timber by cutting to either supply mines and fuel boilers or by forest fires, and is now covered by regrowth of spruce, poplar, birch and alder (see Fig. 3 below).

Exploration in 2012 was conducted from accommodations in Dawson. No exploration camp is located on the property.



Figure 3. Physiography of the claims. Looking north with new placer stripping on Laskey creek (left centre) and older working on Gold Run creek (right). Heavy vegetative cover.

5.0 HISTORY

- 1896: Start of placer exploration and mining in the Klondike, along with quartz exploration.
- 1897: Start of placer mining on Gold Run Creek which underlies the centre of the Gold Run claim group. This creek has been a major placer gold producer, with mining continuing to the present.
- 1900- 1901: Staking and surveying of Quartz claims in the lower Gold Run area (Yukon Minfile 1150 061 PAYNE).
- 1901: Report by A. McMillan of a gold-bearing quartz vein striking northwest along the ridge between Gold Run and Sulphur creeks. This target area is partly covered by FB claims, but the vein has never been confirmed despite considerable subsequent investigation.
- 1901- 1903: Old Kentucky Lode and OKL extensions 2 & 3 staked and explored by pits and shallow shafts (Yukon Minfile 1150 132 DEVINE). The Old Kentucky Lode showing is on the FB claims, while the extensions are on competitors ground to the northwest (probably the Kentucky West and Doron targets of Kreft).
- 1902: Underground testing of gold-quartz veins at PAYNE. 50m adit and two shafts, with bulk samples tested at the Munger mill in Dawson. Claims lapsed in 1903.
- 1911: Cairnes visits and describes many of the lode gold prospects in the Klondike, but did not report on the Gold Run creek area.
- 1913: PAYNE showings restaked by J. Lloyd. At least 100m of tunnel dug by 1925, with exploration continuing until 1930.
- 1914: Maclean visits and reports on many of the lode gold prospects in the Klondike, but did not report on the Gold Run creek area.
- 1922- 1928: trenching and shallow shafts dug by J. Devine in the DEVINE area.
- 1929- 1938: more trenching and shallow shafts dug by J. Devine in the DEVINE area.
- 1967: Airborne magnetics survey of area published by Geological Survey of Canada.
- 1976: PAYNE workings restaked by F. Burkhard as DEB. The DEB claims are still in good standing.
- 1978: bulldozer trenching at DEB by F. Burkhard. This was the last exploration work done on these claims.
- 1982: A large block of G. HAWK claims were staked by W. Hawkes in the area.
- 1983: Archer Cathro associates conducted geological mapping to the north of the KLAM claims which surrounded the DEB claims. The assessment report contains an excellent historical summary of exploration and placer mining at Gold Run creek (Mortensen, 1983).
- 1984: Bedrock geology map, 1:50,000 published (Debicki, Open File 1984-3).
- 1984: United Keno Hill Mines staked quartz claims over many of the main placer creeks in the Klondike, including the RUN claims at upper and lower Gold Run creek. They flew 3 airborne surveys and conducted minor VLF-EM ground surveys. They drilled 95 rotary percussion holes in 14 areas, including 5 holes in a fence across upper Gold Run creek (about 4km north of the FB claims) and a second 5 hole fence located near the mouth of Whitman gulch, just south of the FB & AIME claims (assessment report #091634, minfile 1150 134 CARON).

- 1984- 1985: The LASS claims were staked in the Laskey creek area by L. Gatenby, who explored with B horizon soil sampling in the Kentucky Lode area (Gatenby, 1984). This work returned numerous low level gold anomalies, and was followed by bulldozer trenching in 1985 beside the old shaft.
- 1986: United Keno Hill Mines staked and explored the RIJ claims on the ridge between Gold Run and Sulphur creeks to cover an airborne geophysical anomaly and to cover a quartz vein exposed in a bulldozer cut in the area reported by McMillan in 1901. 303 widely spaced soil samples were collected on a grid, with 10 returning over 25ppb Au, and a maximum value of 305ppb Au. A VLF survey identified an anomaly. An excavator trench was dug to test the VLF anomaly and the coincident maximum gold value. The trench was 260m long and 7m deep, and revealed a graphitic schist unit but little gold (Ouellette, 1986).
- 1986- 1988: Doron staked the BTTA claims northwest of the RIJ claims (mostly on current FB claims). Soils and prospecting were performed. Added the Kentucky claims in 1987, further soils and prospecting. More soils in 1988. A cut line grid on the Kentucky claims with a 2.4km due east baseline and 20 N-S 800m long wing lines was established near the Kentucky West zone. 800 soils were collected, and 4 significant anomalies identified in the Kentucky (DEVINE) area (Davidson & Lueck, 1988). The eastern end of the baseline crosses the current FB 7 claim.
- 1994: Wealth Resources acquired the G. Hawk claims, which covered most of the current FB & AIME claims, and also part of the expired Kentucky claims of Doron. They collected 300 B horizon soil samples from two grids. The main HW2 grid partially overlaps with Doron's Kentucky grid, but has lines spaced 250m apart, and extends further to the north and south. A two line grid (HW) was sampled north of the DEB claims. A placer pit on Gold Run creek excavated by Teck on the current FB 1 claim was mapped and sampled. A quartz pod with chalcopryrite and chalcocite returned 59 g/t Au & 187.5ppm Ag (Southam, 1994).
- 1994: A fence of 32 auger holes was drilled near the mouth of Gold Run creek on the GR 55 & 56 claims (still current) by J. Christie. The holes were 6.5" in diameter, spaced 25 feet apart, drilled 10 feet deep, collared in bedrock exposed in a placer pit. The holes cut various hues of green schist, and returned a best value of 85ppb Au.
- 1996: Barramundi Gold Ltd staked and optioned much of the Klondike area, over 3000 claims. Their property covered much of the current Gold Run group. As part of their exploration program, Barramundi collected 210 regional stream silt samples that cover most of the current Gold Run group. Anomalous gold values were found at the headwaters of 37 & 51 pups, with the best values in the Gold Run drainage from the unnamed pup between 24 and 37 pups. (Stevens, 1996. assessment report #093711, which comprises 4 separate reports). This pup drains the anomalous southern area of this report.
- 1996: Bedrock geology maps, scale 1:50,000 published, including 115O/ 10 (Mortensen, Open File 1996-1).
- 2000- 2002: The northern part of the DEVINE occurrence (Kentucky West) was staked as the HIT claims by KSL (Adamson & Thomas, 2002). They performed 12 lines of MMI soil geochemistry in the same general area previously sampled by Doron and Wealth.
- 2002: Airborne magnetics and radiometrics geophysical survey, 1:50,000 scale published (Shives et. al., GSC Open File 4308).

- 2003: FB claims staked by Klondike Gold Corp.
- 2004: Prospecting and soil sampling on the FB claims. Some moderate soil anomalies were located, and rock grab samples up to 2.43g/t Au (assessment report #094689).
- 2005: Prospecting and soil sampling on the FB claims (assessment report #094579).
- 2006: AIME claims staked by Klondike Star Mineral Corp. MMI and conventional soil sampling on the AIME & FB claims (assessment report #094783).
- 2007: B. Kreft staked the GR claims north of the FB claims, collected 94 soil samples, excavated 5 trenches totalling 124m length. 57 channel samples and 4 grab samples were collected from the trenches. The trenching returned 15 anomalous zones with values up to 2242ppb Au over 18.2m from trench 4 at the Doron target. The Doron target lies about 100m from the FB property boundary (Kreft, 2007).
- 2008: Prospecting and soil sampling on the FB & AIME claims. 88 soils and 1 rock collected. Soil anomalies between the PAYNE and DEVINE occurrences were enhanced and confirmed, and extended to the east of the DEB claims. (Mann & Liverton, 2008).
- 2009: B. Kreft expanded his claim block to the northwest and continued trenching in the Doron area located immediately north of the FB claims (Kreft, 2009). 9 additional trenches were dug, and the Doron zone is found to contain at least 19 auriferous alteration and vein zones over a width of about 350m. Values up to 14.7 g/t Au over 1.9m were returned from chip samples of the trenches.
- 2010: Kreft optioned the GR claims to Kestrel Gold, which appears to have done soil sampling over the entire property (Kestrel Gold corporate website).
- 2010: Taku Gold conducted an airborne magnetic and radiometric survey over their Sulphur project, which includes claims to the southwest of the FB claims.
- 2011: Taku Gold collected ridge and spur soil samples across their Sulphur claims, which led to the identification of the LIONS target about 1km southwest of the FB claims. This target was covered with a soil grid, and then tested by two excavator trenches which did not reach bedrock. Two gold-silver-arsenic anomalies are present across a 1000m length.
- 2012: Taku Gold drilled 6 holes totalling 881m at the LIONS target, with weak gold mineralization encountered.

6.0 GEOLOGICAL SETTING AND MINERALIZATION

YUKON-TANANA TERRANE

The Klondike region is underlain by the Klondike Schist, which is correlated with units of the Yukon-Tanana terrane which extends from Alaska to the southern Yukon and B.C. (Fig. 1.) The terrane is now considered to be those Devonian-Mississippian strata of continental affinity which are overlain by volcanic arc successions that include backarc and island arc tectonic settings (e.g.: Colpron, 2001; Piercey et al., 1999). These units are polydeformed and, over a regional scale, show a range of metamorphic grade from lower greenschist to amphibolite facies (e.g., Mortensen et al., 1992; Roots et al., 2003) Structural styles are consistent with deformation during east to northeastward directed accretion and crustal shortening.

REGIONAL GEOLOGY

The northwestern Klondike area is underlain by three recognisable thrust fault bounded assemblages (Rushton et al., 1993) that constitute the mid Permian Klondike Schist. These are: Assemblage III of carbonaceous quartz-muscovite phyllite, schist and marble that crops out SW of the Indian River and also to the NE of Hunker Creek. Structurally above is Assemblage II of micaceous and chloritic quartzite, feldspathic quartzite, marble and calcareous schists which is intruded by the Mt. Burnham orthogneiss, found in the east of the Klondike. Assemblage I consists of three units: quartz augen schist; the Sulphur Creek orthogneiss; and intercalated chloritic schist, metagabbro, amphibolite, quartzite and felsic schist. A major thrust fault is mapped running north-south along the east side of the claim group. Most of the claim group is underlain by chloritic schist.

STRUCTURAL GEOLOGY

The Klondike Schist is a L-S tectonite. Four phases of deformation (D_1 - D_4) can be attributed to progressive fabric development. Not all the deformation phases are observed at any one locality.

The first phase of deformation consisted of ductile completely isoclinal folding. Only rare cm-scale rootless fold hinges may be observed. The F_1 folding transposed original bedding into parallelism with axial planar foliation such that F_1 fold hinges are rarely seen.

The second phase of deformation (D_2) was also characterized by ductile, isoclinal folding (F_2) of already transposed bedding (S_1) and development of a penetrative axial planar foliation (S_2). F_2 folds in the Klondike are often seen as dm-scale isoclinal closures, often E to NE vergent. This stage was accompanied by intense transposition of lithologic layering (S_1) with metamorphic / segregation veins (V_1) developed parallel to (S_2) (foliaform veins). The majority of primary structures such as bedding have been obliterated as they were flattened and transposed by early-generation folding (D_1 to D_2).

The third phase of deformation (D_3) folds S_2 with generally tight-similar style folds with NW trend. F_3 crenulations developed in the fold hinges define an L_3 lineation. A penetrative axial planar foliation (S_3) is occasionally developed. F_3 folding of metamorphic segregation veins has produced rootless fold hinges that outline S_3 (intrafolial folds). Regional scale thrust faulting has been considered to be coincident with the third deformation (showing styles consistent with it having been produced near the brittle-ductile transition) and is considered to be late Triassic in Rushton et al., (1993), but possibly Jurassic by MacKenzie et al. (2007).

Phase 4 deformation (D_4) is conjugate angular kink folds and possible macroscopic warping (km-scale) of the penetrative foliation. This produced pervasive folding and complex refolded folds. Fold styles range from tight similar to chevron folds and broad open folds. Regionally F_4

fold axes are often at a high angle to F_3 fold axes and may appear as two conjugate sets: N to NE and E to SE. F_4 crenulations define an L_4 lineation.

In general, fold style appears to be lithologically controlled. For example, the more incompetent mica rich units are more obviously folded with S_3 crenulation cleavage developed. The cleavage is either spaced on the cm scale or becomes the dominant fabric.

QUARTZ VEIN SYSTEM OF THE KLONDIKE AND MINERALIZATION

Two types of quartz vein are common in the Klondike:

a) foliaform veins that are typically concordant with transposed bedding (S_2) and which may be metres thick, but which are usually lenticular. These are almost always barren of gold and,

b) discordant veins that carry sulphide mineralization (pyrite, with minor galena, chalcopryrite and tetrahedrite) and visible gold which is both commonly contained in selvages of pyrite (or after weathering, pseudomorphs of goethite/limonite) and as free gold grains in the white quartz. The discordant veins are rarely up to 2-3m thick and can persist for hundreds of metres strike length. Some spectacular gold grades are reported from this vein type (Rushton et al., 1993). Those authors date Sheba prospect (Mitchell: Minfile 068) vein formation at early Cretaceous which was a time of lull in magmatic activity (Armstrong, 1988) but of crustal thickening and rapid uplift. These discordant veins would post-date D_4 . Concordant veins are clearly older since some may be observed to have been folded by D_4 structures. The model of mesothermal-type vein formation as proposed by Rushton et al. (1993), considers the SE part of Klondike to be a deeper level in the system than Bonanza and that the Hunker Dome region would have been mineralized as ascending meteoric / metamorphic CO_2 - bearing fluids reached a level sufficient for the exsolved CO_2 gas to have effervesced.

Recent work (J.K. Mortensen, pers. comm.) favours a model for vein formation as secondary structures developed between near horizontal extensional floor and roof faults during the process of rapid early Cretaceous uplift, analogous to formation of detachment faults above metamorphic core complexes.

Base metal and gold mineralization in the Klondike Schist is likely to have been emplaced during several events. There is evidence for VMS type mineralization at the Bronson occurrence west of Bonanza creek (minfile 1150 113), at Lone Star (J.K. Mortensen, pers. comm.) and a horizon of sulphide mineralized schist was investigated during the 2008 season in the Quartz Creek area (Mann & Liverton, 2008). Pyrite that predates and postdates the D_3 deformation has been commonly observed. The association of sulphides, sulphosalts and free gold with discordant quartz vein formation is well demonstrated on the JAE claims (Liverton & Mann, 2011).

QUATERNARY GEOLOGY

The Gold Run project lies in unglaciated terrain, near the western margin of the Cordilleran ice sheet limits. It is in the zone of widespread discontinuous permafrost, with permafrost generally present on north and east facing slopes.

The upland soils in the area, dominated by colluvium have been described by Bond & Sanborn (2006): “... a thin veneer (<25 cm) of loess is preserved on moderate upland slopes. On slopes with a south-facing aspect the loess forms a distinct unit at the top of the B horizon. A minor component of coarser locally derived colluvium appears to have been incorporated in the loess by slope processes in many places. On north-facing slopes, permafrost is commonly present (or has been present), which enhances the colluviation of the surficial deposits. On these slopes, the loess has been incorporated in the underlying colluvium by cryoturbation.”

The dominant soil types on ridge crests and south facing slopes are distric brunisols. The dominant soils on north facing slopes are turbic cryosols.

PROPERTY GEOLOGY

The Gold Run group of claims covers part of a northwest trending thrust fault within the late Permian Klondike Schist (Mortensen, 1996). Chlorite rich schists and phyllites are dominant in the hangingwall of the shallowly west-dipping thrust, and muscovite-rich quartzites with minor muscovite schist forms the footwall. Slivers of ultramafic rocks occur in the thrust fault planes, thought to be part of the late Paleozoic Slide Mountain terrane. Massive dark green serpentinite is reported from the Gold Run creek bed at the north end of the claims (Southam, 1994). Grey, unaltered quartz-feldspar porphyry dykes were mapped in the same area. The dykes are up to 5m wide, east-west striking, with near vertical dips. Minor lenses of black graphitic schist are found within the Klondike Schist, notably along the ridge crest on the west side of the FB claims (Ouellette, 1986).

The veins described at the PAYNE occurrence are typical of gold-bearing veins in the Klondike. Milky white quartz with scattered cubes of pyrite and rare grains of galena and traces of visible gold are discordant to schistosity. The wall rock of the veins are pyritized. Mortensen (1992) reported minor ribboned quartz and mesothermal type salinities and homogenization temperatures at this location. There are no elevated levels of metals or trace elements other than gold reported from these veins.

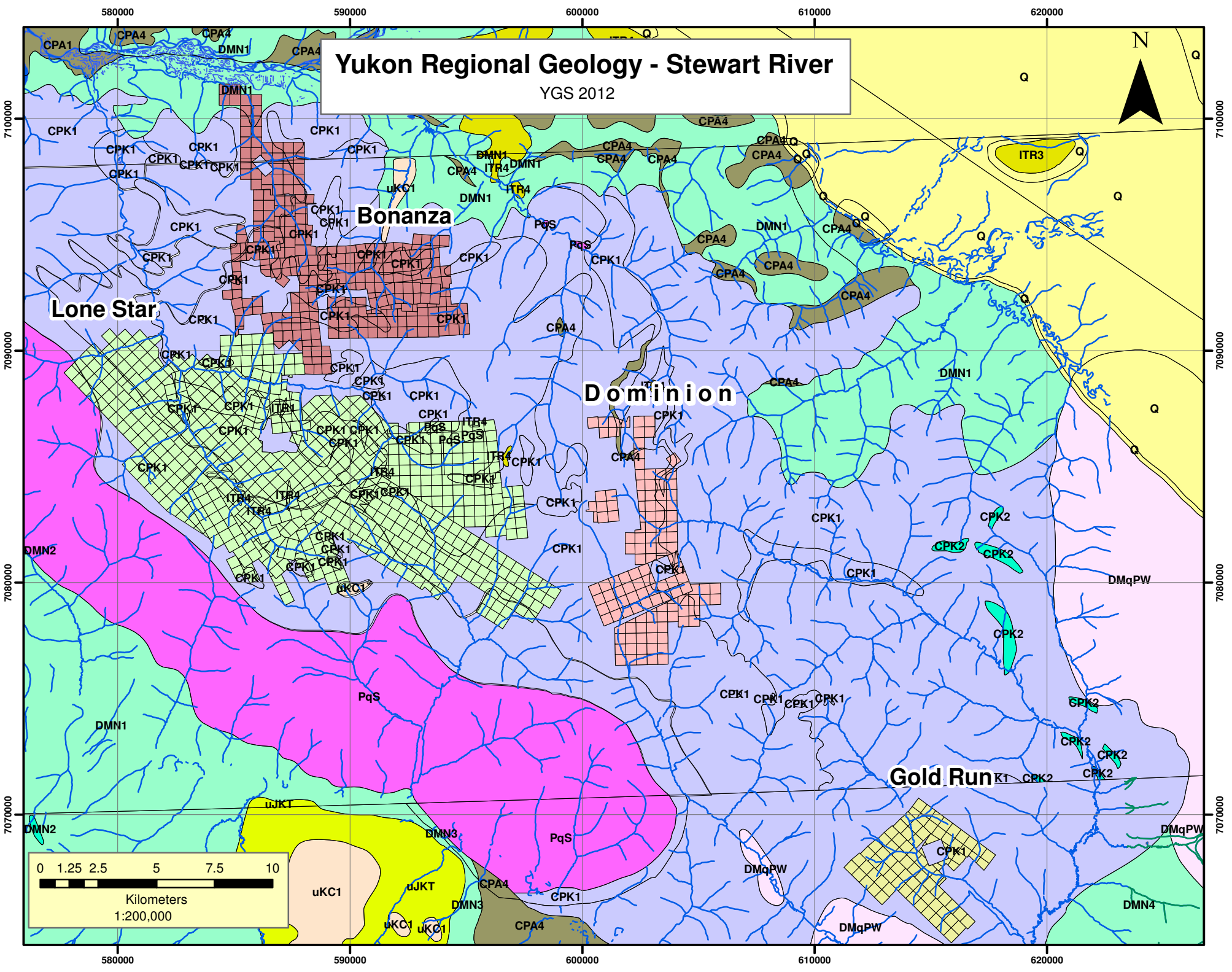
On the GR claims of B. Kreft immediately north of the claims lies the DORON target, which has revealed significant widths of gold bearing rusty schists with narrow high grade quartz veins (Kreft, 2009). Trench chip samples of altered wallrocks have returned up to 2.2 g/t over 18.2m (including 9g/t over 1.8m) in T07-04, the trench closest to the FB claims. Chip samples in other trenches have returned up to 14.7g/t Au over 1.9m. The mineralized zones are described as iron-carbonate altered and pyritized, plus or minus quartz veins. The host of this zone is described as

unaltered chlorite-quartz +/- biotite +/- sericite schist. The quartz veins associated with mineralization are discordant, NW trending, generally vertical and typically 2 to 10 centimetres in width with alteration haloes up to 3m wide. Locally the veins are described as sheeted in nature to form altered zones at least 20m wide.

Tourmaline-healed quartz breccia veins are found locally in float, and are found in the shaft dump at the Kentucky Lode zone on the property (see figure 7, below). This type of vein seems to be very low in gold.

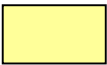
Yukon Regional Geology - Stewart River

YGS 2012

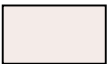


Geology Legend

Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits



UPPER CRETACEOUS



uKC1: CARMACKS: augite olivine basalt and breccia; hornblende feldspar porphyry andesite and dacite flows; vesicular, augite phyric andesite and trachyte; minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks

TERTIARY



ITR3: ROSS: brown, thin bedded, claystone, siltstone, shale and coal; arkosic or chert rich, thick bedded micaceous sandstone; thick bedded to massive pebble to boulder, chert-quartz conglomerate

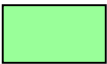


ITR4: ROSS: light coloured felsic quartz feldspar porphyry and rhyolite; minor acid tuff breccia, crystal lithic tuff and ignimbrite; quartz-feldspar porphyry stocks and dykes

LATE DEVONIAN TO MISSISSIPPIAN



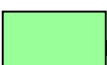
DMqPW: PELLY GNEISS SUITE - SOUTHWEST: foliated equigranular medium-grained muscovite quartz monzonite; moderately to strongly foliated K-feldspar augen-bearing quartz monzonitic to granitic gneiss (S. Fiftymile Batholith, Mt. Burnham Orthogneiss,)



DMN1: NASINA: dark grey to black, fine grained graphitic and non-graphitic quartzite, grey micaceous quartzite and quartz muscovite (chlorite; feldspar augen) schist, locally garnetiferous; minor graphitic stretched metaconglomerate and metagrit (Nasina assemblage)



DMN3: NASINA: quartzite, micaceous quartzite, quartz muscovite (chlorite; feldspar augen) schist, and minor metaconglomerate and metagrit as in (1), but may locally include significant Nisling Assemblage



DMN4: NASINA: quartzite, micaceous quartzite, quartz muscovite (chlorite; feldspar augen) schist, and minor conglomerate and metagrit as in (1), but may locally include significant Klondike Schist Assemblage

MIDDLE PERMIAN



PqS: SULPHUR CREEK SUITE: moderately to strongly foliated biotite quartz monzonite gneiss, the Sulphur Creek Orthogneiss; coarse grained, homogeneous, hornblende-biotite-bearing granite, granodiorite and quartz-monzonite with narrow foliated and mylonitic zone

CARBONIFEROUS AND PERMIAN



CPK1: KLONDIKE SCHIST: tan to rusty and black weathering muscovitic and/or chloritic quartzite and quartz-muscovite-chlorite schist; quartz and/or feldspar augen-bearing quartz-muscovite (chlorite) schist; includes augen gneiss and amphibolite (Klondike Schist). CPK2: KLONDIKE SCHIST: resistant, white weathering, white sugary marble with a ductile flow fabric; crystalline marble (Klondike Schist)

CARBONIFEROUS TO PERMIAN



CPA1: ANVIL: variably altered and foliated, locally augite-phyric basalt (local pillows), diorite and gabbro, chloritic greenstone, amphibolitic greenstone and amphibolite; minor metachert, siliceous argillite or siltstone, greywacke, tuff, and siliceous limestone. CPA4: ANVIL: dunite, peridotite, gabbro, pyroxenite, harzburgite and minor diorite, hornblende and diabase; serpentinite, orange weathering quartz carbonate rock with minor green chromian muscovite, talc-carbonate schist and carbonatized ultramafic rocks

7.0 DEPOSIT TYPES

Exploration on the Gold Run project is not sufficiently advanced to assign specific deposit types to the property. The complex structural history of the various assemblages in the Klondike allow the possibility of several sources for gold mineralization. A detailed discussion is given in Liverton (2008).

The most appropriate model for mineralization relevant to this report is orogenic vein mineralization associated with D₄ deformation at the PAYNE (DEB claims) and DEVINE (Doron target of Kreft) occurrences.

8.0 EXPLORATION

AUGUST 2012 SOIL SAMPLING AND PROSPECTING

Four lines of soil samples were collected in the northern part of the claims, with samples collected 50m apart on lines spaced 100m apart, for a total of 72 soil and 1 rock samples. Two soil lines were collected in the southern part of the claims in an area known to be anomalous to compare deep soils to previous MMI and shallow 80 mesh soil results. 53 soils and 4 rocks were collected in the southern area. The deep auger method was used in 2012 to collect soils as deep as possible (up to 120cm deep). The author's soil samples were collected by shovel and Geotul to expose rocks at previous soil sample sites known to be anomalous in gold.

Samples were collected from as deep as possible, usually in the C-horizon, and placed in Kraft paper bags. Sample details were recorded in the field, and sample sites marked with flagging tape. Soil samples were partially air dried in the company offices. The samples of rock and soil were delivered directly to the AcmeLabs preparation laboratory in Dawson for aqua regia digestion and 36 element ICP-MS analysis.

Sample locations with gold results for the northern area are shown in figure 5, and for the southwestern area in figure 6, both at 1:10,000 scale. Soil and Rock sample analytical results are presented in Appendices 3 and 4 respectively. Sample locations and descriptions are presented in Appendix 5. Note that the Rock assay certificate contains sample assays from other projects in addition to Gold Run: only samples 1719833- 1719837 are from the Gold Run project.

The northern area sampled in 2012 lies just south of the Doron zone successfully tested by Kreft with soils and trenching (Kreft, 2009 & Kestrel Gold website). This zone lies only about 100m from the FB claims, and is thought to trend north-south onto the Gold Run project. The small grid also covers the area around the historic Kentucky Lode workings. 21 of 72 soil samples in this area were greater than 20ppb Au, with a best value of 265.5ppb Au. Silver values were low

in these soils (max 0.3ppm Ag), and there is no obvious correlation between gold and pathfinder elements.

In the northern area one grab sample from a quartz-tourmaline boulder exposed in the trail returned only trace gold. Previous sampling of similar black tourmaline-healed white quartz breccia vein material found at the Kentucky Lode returned very low gold values (Mann, 2004 – figure 40). Of 12 rock samples collected here in 2004, the best sample returned 2.43g/t Au, with the next best result 25.1ppb Au.

The southern area sampled in 2012 covers a saddle where a gold in soil geochemical anomaly was first identified in 2005 on the FB 22 & 23 claims (Fig. 6). The anomaly was examined in 2007 with further B horizon -80 mesh soils and MMI soils (Ledwidge, 2007). The work in 2012 was done to compare deep auger soils with the other soil methods, which both successfully identified a coincident gold- arsenic and low level silver anomaly. The 2012 work confirmed the earlier work, but the extra effort gave only slightly superior results, with some higher gold and silver values. This target is polymetallic, with moderate gold associated with very strong arsenic (up to 839ppm) and moderate silver (up to 1.9ppm). Associated with this target is a suite of elevated base and pathfinder elements including Cu, Zn, Cd, Sb & Bi. The geochemical character seems to match the description of the LIONS target of Taku Gold, which has gold with very strong arsenic and silver, and is located about 4km due west (Taku Gold corporate website). A dozer trail that appears passable by 4x4 truck extends from the ridge above to the saddle.

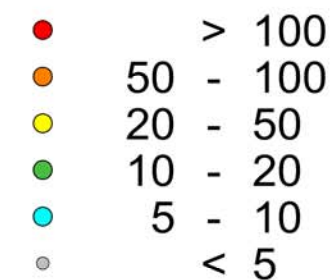
Prospecting of the southern area, which has no outcrop, was limited to digging holes at the sites of previous gold geochemical anomalies to examine any rocks. The soils labelled with WDM prefix were duplicate and usually deeper samples of the best anomalies from 2005 and 2007. Generally two soil samples were collected from each hole, one at shallow depth and one as deep as possible. The best of these samples was WDM 2003, which returned 107ppb Au and 1.9ppm Ag from deeper in the same hole that in 2005 returned 69ppb Au (sample #302869). The other duplicate soils in this area returned weak to moderate anomalies. Most of these holes sampled C horizon soils that consisted of decomposed schist with no coherent rock chips available for sampling. The best rocks sampled in the area in 2012 returned 31ppb and 22ppb Au from rusty schist float near the 107ppb Au sample.



KLONDIKE GOLD CORP.
CANADIAN GOLD AND BASE METAL EXPLORATION

Kentucky Lode
 Bull Dozer Trail

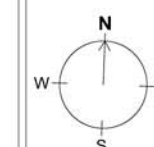
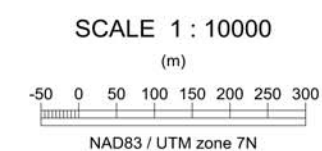
Au ppb Soils



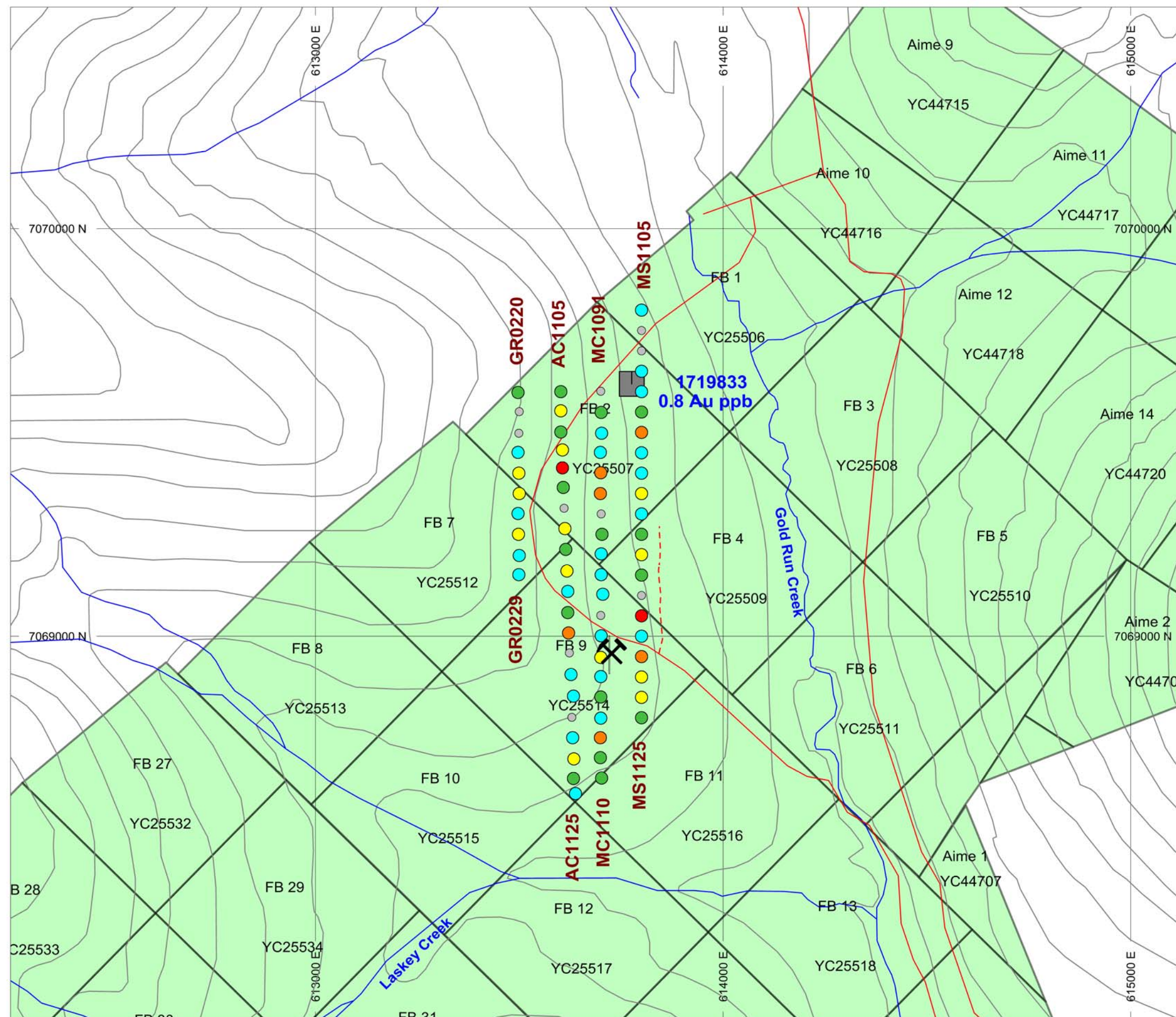
2012 Rocks

PLAN SPECS:

REF. PT. E, N 613700 m 7069000 m
EXTENTS 2894 m 2485 m



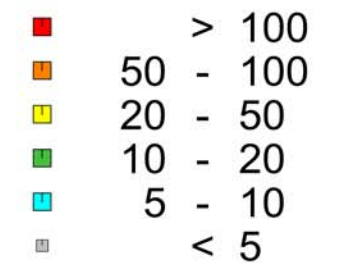
Klondike Gold Corp.
Gold Run Project
Gold Run North Soils and Rocks
Figure



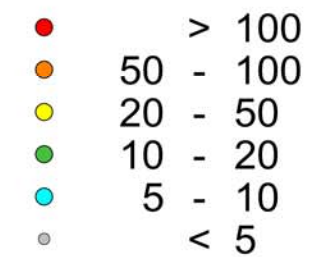


KLONDIKE GOLD CORP.
CANADIAN GOLD AND BASE METAL EXPLORATION

Au ppb Rocks



Au ppb Soils

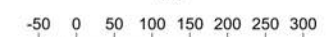


PLAN SPECS:

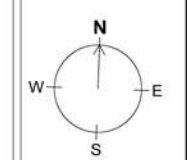
REF. PT. E, N 615000 m 7067000 m
EXTENTS 2894 m 2485 m

SCALE 1 : 10000

(m)



NAD83 / UTM zone 7N



Klondike Gold Corp.
Gold Run Project
Gold Run South Rocks and Soils
Figure

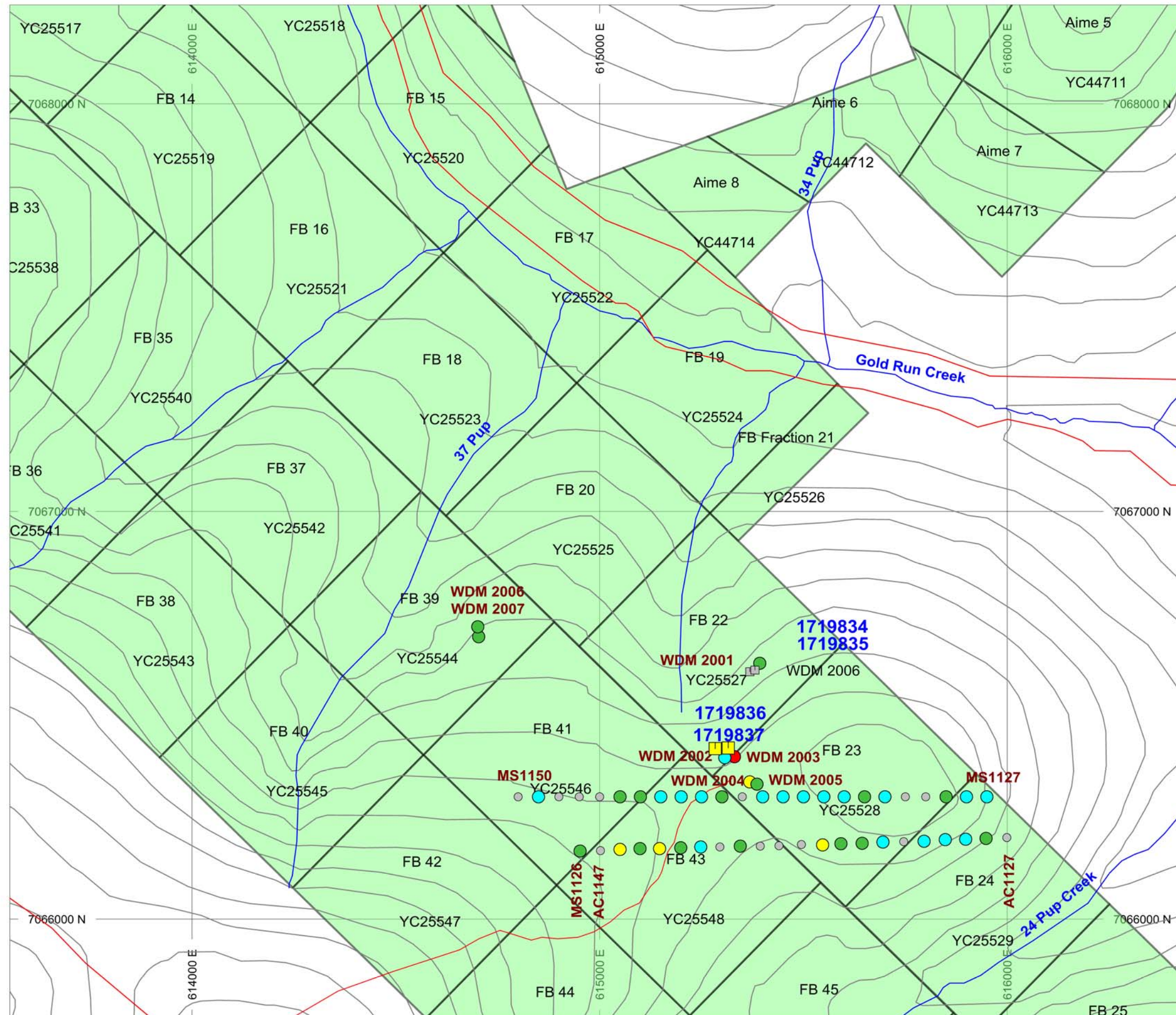




Figure 7. Quartz-tourmaline breccia vein at Kentucky Lode shaft dump.

9.0 DRILLING

No drilling was conducted on the claim group in 2012. Previous drilling known on or near the claim group includes a 1984 program of rotary percussion drilling conducted by United Keno Hill Mines near Whitman gulch on Gold Run creek, about 500m south of the FB & AIME claims (Prince, 1984).

In 1994 thirty two 6.5” rotary auger holes were drilled 10 feet deep by J. Christie in a fence across Gold Run creek near its mouth on the GR 55 & 56 claims (still in good standing), a couple of kilometers southeast of the FB claims. The holes were collared in bedrock on the floor of a placer mining cut. The rock encountered in all holes was green schist, and a best value of 85ppb Au was returned.

In 2012 Taku Gold drilled 6 diamond drill holes at the LIONS target of their Sulphur project about 1km southwest of the FB claims (Taku Gold website, 2013).

10.0 SAMPLE PREPARATION, ANALYSES AND SECURITY

Soil samples were partly dried in the office building, then delivered in batches by company personnel directly to the AcmeLabs preparatory facility in Dawson City. Samples were dried in a 60°C oven, then sieved to -80 mesh. A 15g subsample was leached in aqua regia at 95°C. Analysis was by ICP-MS for 36 elements (method 1DX2). Gold was analyzed with a 0.5ppb detection limit.

Rock samples were delivered by company personnel in batches directly to the AcmeLabs preparatory facility in Dawson City. Acme then transported the samples to its rock preparatory lab in Whitehorse, where samples were dried. The samples were prepared by crushing to 80% passing 10 mesh, then a 250g split was pulverized to 85% passing 200 mesh. A 15g subsample was leached in aqua regia at 95°C. Analysis was by ICP-MS for 36 elements (method 1DX2). Gold was analyzed with a 0.5ppb detection limit.

All samples were kept in the secure company office in Dawson until batches were complete. Sample batches were delivered by company personnel directly to the AcmeLabs facility in Dawson.

11.0 DATA VERIFICATION

No standard or blank samples were inserted into the sample stream by the company, as it was not considered to be necessary for a small program of early stage work. AcmeLabs presents its

internal quality control results for each sample batch, including standards, blanks and pulp and reject duplicates. This data was reviewed for major discrepancies.

12.0 ENVIRONMENTAL STUDIES, PERMITTING AND SOCIAL OR COMMUNITY IMPACT

The claims of the Gold Run group are at an early stage of exploration, and therefore there have been no environmental studies done to date. Some of the claims (FB) are included in mining land use permit LQ00128. No Social or Community Impact studies have been undertaken directly related to the Gold Run group of claims.

13.0 ADJACENT PROPERTIES

The property is essentially surrounded on all sides by claims held by competitors. These claims have numerous anomalies and minor mineral occurrences, but no known significant deposits. All properties in the area are at an early stage of exploration, except for active placer gold mining on Gold Run and Laskey creeks.

The Gold Run group of claims adjoins the GR property of B. Kreft, currently under option to Kestrel Gold Inc. These claims host the Doron, Doron NW and Kentucky West targets that are part of the DEVINE minfile occurrence 115O 132. The Doron occurrence is located immediately adjacent to the northern boundary of the FB claims of the project. Soil sampling conducted on the GR claims has revealed highly anomalous gold in soils in the east and central part of the claims near Doron, zones of coincident anomalies in Ag-Pb-Zn-Cu +/- Au in the west-central area of the claims, and anomalous As with low gold in the southern part of the claims (Kestrel website, 2013). The GR claims appear to be on trend with the geology and structures of the Gold Run project, specifically the Doron zone on trend with the DEB claims mineralization.

The Sulphur project of Taku Gold lies adjacent to the southwest of the FB claims of the Gold Run project. The southeastern block of the Sulphur project extends from the Sulphur creek – Dominion creek junction the northwest, and hosts several low-level gold anomalies, with the best section called the LIONS target (located southeast of Laskey creek over the ridge in the Sulphur creek drainage). This zone contains two roughly parallel northwest trending anomalies, the first about 1000m long and 400m wide, and the second located 400m to the north is about 600m long and 120m wide. Both contain low to moderate gold in soils (maximum 239ppb) with “very strong” associated silver and arsenic (Taku Gold website, 2013). The LIONS target was tested by 2 trenches in 2011(which did not reach bedrock) and 6 drillholes totalling 881m in 2012. The best drill intersection was 0.31 g/t Au over 2.0m. The LIONS anomaly extends to the border with the FB claims.

The property also surrounds the DEB claims, which contain the PAYNE minfile occurrence (1150 061) which covers several old adits and shafts. These showings have (currently inaccessible) underground workings developed on gold-quartz veins. The orogenic (or mesothermal) mineralization is thought to trend onto the Gold Run group in both directions. The DEB claims were staked in 1978 and have not been explored since that time.

14.0 INTERPRETATION AND CONCLUSIONS

The Gold Run claim group covers a significant portion of Gold Run creek, one of the richest creeks in the Klondike placer gold mining camp. Placer gold recovered in the vicinity of the project is reported to be relatively rich, coarse and jagged (Mortensen, 1984). There are several zones of known gold mineralization adjacent to the claims, as well as numerous gold in soil anomalies and other geochemical and geophysical anomalies on the claims. Bedrock exposure is poor and geological details unknown, which allows potential for exploration success.

Soil geochemistry is an effective tool for most of the property, except in areas of deep muck and loess near the creeks and hard frozen ground. The deep auger method to reach C horizon (or as deep as possible) and conventional -80 mesh analysis is preferred. The main gold trend between the DEB and DORON target on the GR claims is the best target, and is defined as a gold-only anomaly. Other anomalies on the claims, such as the south area sampled in 2012 are poly-metallic (Au-Ag-As-Cu-Zn-Sb-Bi-Cd etc), and appear to have the same geochemical signature as the LIONS target of Taku Gold to the west. Compilation of all historic soil geochemical analysis in the area into a GIS database may reveal significant trends in various elements.

The thrust fault that runs along the east side of the property is thought to have an important role in the gold mineralizing event, as this structure is spatially associated with occurrences of gold and other metals for many kilometers beyond the property along its length. Second order structures are likely to be important for specific gold-bearing structures.

Examination of the 2002 airborne magnetic data reveals that the best occurrences in the area are spatially associated with northwest trending magnetic highs, possibly on the flanks of the highs. It is intriguing that there appears to be a northeast trending fault offset to the magnetic high that is associated with the main trend at the point that it crosses Gold Run creek (around the FB 3- 6 claims). This is particularly obvious in the FVD magnetics map (Shives, 2002). In the White Gold district and other parts of the Yukon minor northeast trending faults are often associated with Cretaceous aged gold mineralization.

15.0 RECOMMENDATIONS

The Gold Run property hosts several weak or spotty anomalies across the length and breadth of the property, and one major, broad gold in soil anomaly that extends between known bedrock gold occurrences of competitors. The anomaly extends from the DEB claims (PAYNE minfile occurrence) northwest across Gold Run creek to the DORON target (of the DEVINE minfile occurrence). This target follows the trend of a major thrust fault, located near the eastern edge of the property. The target has never been tested by drilling, but is confirmed in trenches and historic underground workings on the competitors ground.

Trenching is recommended to test this trend on the FB 2 & 7 claims, close to the DORON occurrence on the GR claims where trenches are located only about 100m from the claim boundary. Trenching is also recommended on the FB 5 & 6 claims near the boundary with the DEB claims, where highly anomalous samples have been located. Permafrost is common in this area, so trenching should be done in two phases with a pre-strip early in the summer and excavation to bedrock late in the summer. An alternative to excavator trenching would be to test the same trend using a mechanized auger drill to test bedrock with fences of closely spaced holes.

There is a significant amount of data present in assessment reports that should be compiled into a GIS database. In particular, thousands of soil samples have been previously collected on or adjacent to the claims and analyzed for gold and other elements. Specifically, the area west of Gold Run creek and north of Laskey creek has been soil sampled by Gatenby (1984), Doron (1988), Wealth (1994), KSL (2000- 2002), Klondike Gold/ Klondike Star (2004- 2012), Kreft (2007- 2009) and Kestrel (2010) with considerable overlap of areas sampled. It is not productive to repeat soil geochemistry in areas where previous sampling was done to appropriate depth and analyzed with adequate precision, therefore it is important to spend the time necessary to review prior work before starting assessment work. However, there are still some areas on the claims where soil geochemistry has not been done in any detail.

The overall geochemical database should be evaluated for more subtle elemental patterns in addition to gold distribution. This might assist in geological mapping by identifying bedrock signatures of ultramafic schists, marble, or for VMS mineralization.

Soils that were collected by KSL in 2000- 2002 and Klondike Star in 2007 that were analyzed by the MMI method are difficult to compare to conventional soil analysis, as MMI relies on statistical “response ratios” of metals in loosely bound ionic form. Some of the veins in the area may have a large suite of highly anomalous elements that are associated with gold, while other targets do not. This variation is likely to affect the usefulness of response ratios to detect some gold deposit types, especially the gold-only type. The use of the MMI method is not recommended where conventional soils can be collected. It may be useful in areas of deep loess and organic muck (e.g. valleys) where it is not possible to hand auger into the “C” soil horizon.

Soil geochemistry is an effective exploration tool in the region, and areas not adequately covered by previous sampling should be surveyed. The deep auger method with conventional -80 mesh soil analysis is recommended for upland areas. The size of analytical sample should be increased from 15g to 30g for more accurate gold determination. In valleys and lower slopes the use of power auger capable of penetrating about 3m to test C horizon is recommended. This area is likely frozen and therefore a full size track mounted auger drill may be required.

Further soil geochemical surveys are warranted on the ridge above the LIONS anomaly of Taku Gold, on the FB 51- 56 claims. The strong arsenic anomaly at LIONS extends to the property boundary on maps released by Taku Gold. Previous sampling in this area was limited to 100m x 400m spaced B horizon sampling in 1986. The northern grid sampled in 2012 should be extended to the west onto the FB 7 & 8 claims. This area is adjacent to the Doron target, which is one of the best quality bedrock gold occurrences in the area. Several historic test pits are also indicated in this area.

The 2002 government airborne geophysical survey was conducted with wide spaced flight lines (500m), however it also measured radioactive elements which might provide useful information. An airborne magnetics survey at 100m line spacing would be beneficial in the claim area, as the better occurrences in the area appear to be spatially associated with (the flanks of?) magnetic highs.

Roads, trails and trenches should be digitized from the most recent satellite imagery, as the trails shown on claim maps and other government maps are incomplete. Adding placer gold workings to the exploration base maps is important, as these are the strongest kind of gold geochemical anomaly. All minor stream tributaries that have names should be identified on company maps to provide field references.

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APPENDIX 1

STATEMENT OF QUALIFICATIONS

WILLIAM D. MANN, M.Sc., P.Geo.

19 HAYES CRESCENT, WHITEHORSE, YUKON Y1A 0E1

1. I am a member in good standing of the Association of Professional Engineers and Geoscientists of BC, Licence #31907.
2. I am a Graduate of Queen's University, 1986, with a Master of Science Degree in Mineral Exploration Geology.
3. I am a Graduate of the University of British Columbia, 1983, with a Bachelor of Science Degree in Geology.
4. I have worked in mineral exploration and mining continuously since 1979.
5. I designed and supervised the work program on the GOLD RUN Project in 2012.
6. I am consulting geologist for Klondike Gold Corp. and Klondike Star Mineral Corp., owner of the claims. I hold no interest in the GOLD RUN property. I hold shares in Klondike Star Mineral Corp. and shares and share purchase options of Klondike Gold Corp.

April 5, 2013

William D. Mann, M.Sc., P.Geo.

APPENDIX 2.**2012 GOLD RUN Project Statement of Expenditures - Klondike Gold/ Klondike Star****NTS 1150/10**

CATEGORY	SUPPLIER	ITEM	UNITS	RATE	COST	TOTAL
Soil geochemical surveys and prospecting						
<u>Accommodation & Food</u>						
		Accommodation/worker/day	11	50	550.00	
		Food/worker/day	11	50	550.00	
					1,100.00	\$1,100.00
<u>Contractors and Consultant Fees</u>						
	W.D. Mann	supervision & prospecting	3	682.5	2,047.50	
	Matt Sweeney	soil sampling	2.5	260	650.00	
	Matt Cook	soil sampling & mapping	1.5	300	450.00	
	Adam Connolly	soil sampling	2.5	260	650.00	
	Greg Rodwell	soil sampling & mapping	1.5	300	450.00	
					4,247.50	\$4,247.50
<u>Transportation</u>						
		Use of 4x4 trucks	3	100	300.00	
					300.00	\$300.00
<u>Geochemical Analysis</u>						
	sampling supplies	consumables - flags, bags, tags	131	1	131.00	
	Acme Analytical	Soil geochemical analysis	126	20	2,520.00	
	Acme Analytical	Rock geochemical analysis	5	35	175.00	
					2,826.00	\$2,826.00
						\$8,473.50
<u>Reporting</u>						
		maps and report writing @ 10%				\$847.35
TOTAL EXPENDITURES:						\$9,320.85

field work conducted August 17 - 23, 2012

AIME & FB CLAIMS

Signed:**Date:**

2012

agent for Klondike Star Mineral Corp. And Klondike Gold Corp.



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Acme Analytical Laboratories (Vancouver) Ltd.

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Submitted By: Iain Mitchell
Receiving Lab: Canada-Dawson City
Received: August 21, 2012
Report Date: August 27, 2012
Page: 1 of 4

CERTIFICATE OF ANALYSIS

DAW12000249.1

CLIENT JOB INFORMATION

Project: Gold Run
Shipment ID: KGS-004
P.O. Number
Number of Samples: 72

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Klondike Gold Corp.
711 - 675 W. Hastings St.
Vancouver BC V6B 1N2
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	72	Dry at 60C			DAW
SS80	72	Dry at 60C sieve 100g to -80 mesh			DAW
RJSV	72	Saving all or part of Soil Reject			DAW
1DX2	72	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Gold Run
Report Date: August 27, 2012

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CERTIFICATE OF ANALYSIS

DAW12000249.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
MS1105	Soil	0.6	42.7	7.6	64	<0.1	25.2	15.4	475	3.42	6.2	0.7	6.1	3.2	20	<0.1	0.4	0.1	75	0.37	0.045
MS1106	Soil	0.4	43.7	5.2	62	<0.1	27.9	18.3	572	3.31	4.6	0.7	4.7	2.0	20	<0.1	0.3	<0.1	68	0.46	0.052
MS1107	Soil	0.4	58.6	5.2	55	<0.1	28.6	17.6	619	3.34	3.6	0.5	3.8	1.6	19	<0.1	0.2	<0.1	63	0.44	0.051
MS1108	Soil	0.3	109.4	3.5	62	0.2	46.2	28.6	1034	4.24	2.9	0.2	5.4	0.7	18	<0.1	0.3	<0.1	84	0.45	0.054
MS1109	Soil	0.3	133.8	1.8	76	0.2	31.8	32.9	1185	5.50	2.0	<0.1	5.3	0.4	17	<0.1	0.2	<0.1	98	0.61	0.054
MS1110	Soil	0.9	29.6	8.4	57	0.1	21.7	11.3	671	2.92	8.0	1.5	13.6	3.4	29	0.2	0.6	<0.1	51	0.55	0.055
MS1111	Soil	0.8	37.8	6.8	90	0.1	15.6	16.4	711	4.17	8.3	0.6	74.1	2.4	20	0.2	0.4	<0.1	73	0.48	0.064
MS1112	Soil	0.6	32.2	5.8	71	<0.1	15.9	13.1	623	3.52	6.8	0.8	6.8	2.6	20	0.2	0.4	<0.1	60	0.50	0.078
MS1113	Soil	0.6	25.3	6.5	61	0.1	17.6	10.6	441	3.05	6.6	1.0	8.4	3.1	23	<0.1	0.4	<0.1	52	0.52	0.075
MS1114	Soil	0.7	24.7	8.3	56	0.1	22.8	12.0	469	2.87	7.3	1.1	24.3	3.2	32	<0.1	0.5	<0.1	52	0.55	0.072
MS1115	Soil	0.9	19.1	7.6	53	<0.1	18.0	8.5	301	2.27	7.9	1.0	5.9	4.1	30	0.1	0.7	0.1	44	0.43	0.062
MS1116	Soil	1.0	18.4	7.3	78	<0.1	20.5	11.9	350	3.58	7.9	0.8	13.7	3.9	24	0.1	0.6	<0.1	57	0.40	0.082
MS1117	Soil	1.3	21.2	9.1	85	<0.1	19.7	10.6	557	3.11	7.2	1.3	20.3	5.2	29	0.4	0.6	0.1	49	0.44	0.065
MS1118	Soil	0.9	23.9	8.9	58	<0.1	20.2	9.9	342	2.50	9.4	1.2	16.7	4.9	32	0.3	0.7	0.1	49	0.47	0.070
MS1119	Soil	0.8	21.0	8.6	53	<0.1	19.0	10.2	400	2.49	8.8	1.2	5.0	3.6	34	0.2	0.6	<0.1	47	0.55	0.063
MS1120	Soil	1.0	21.6	10.7	61	0.2	20.0	13.6	636	3.13	9.3	0.7	152.1	4.3	27	0.3	0.6	0.1	49	0.49	0.071
MS1121	Soil	0.9	23.7	8.1	65	0.1	23.7	12.6	485	3.11	8.3	0.9	5.9	4.4	31	0.2	0.7	<0.1	49	0.50	0.061
MS1122	Soil	1.0	22.4	9.0	46	0.1	19.8	10.7	432	2.60	7.9	1.1	77.7	4.5	35	0.3	0.7	<0.1	42	0.49	0.067
MS1123	Soil	1.2	23.7	8.9	49	0.1	21.5	11.3	425	2.86	9.5	1.2	23.3	4.4	43	0.3	0.6	0.1	47	0.58	0.057
MS1124	Soil	1.0	23.5	9.1	45	0.1	21.7	9.7	373	2.69	10.9	1.4	41.2	4.7	37	<0.1	0.7	0.1	48	0.54	0.054
MS1125	Soil	0.8	25.3	7.8	45	0.1	22.7	10.5	325	2.62	15.7	0.7	16.6	4.7	33	0.1	0.7	<0.1	44	0.46	0.061
AC1105	Soil	0.4	32.3	4.0	73	<0.1	12.0	18.1	1193	4.43	3.8	0.2	11.2	1.7	10	0.1	0.3	<0.1	89	0.25	0.050
AC1106	Soil	0.6	21.5	6.1	51	<0.1	14.5	9.1	588	2.78	6.4	0.6	20.1	3.4	18	<0.1	0.5	0.2	43	0.47	0.064
AC1107	Soil	0.7	20.8	8.0	68	<0.1	14.7	9.8	717	2.98	7.9	0.5	11.0	3.7	18	0.2	0.5	<0.1	47	0.36	0.077
AC1108	Soil	0.4	22.4	5.0	54	0.1	13.3	8.7	584	2.72	5.1	0.9	41.4	2.4	18	0.1	0.3	<0.1	39	0.51	0.082
AC1109	Soil	0.7	24.2	7.0	52	0.1	26.5	13.8	590	3.25	7.7	1.1	265.5	2.6	21	<0.1	0.5	<0.1	55	0.47	0.062
AC1110	Soil	1.3	24.7	8.3	51	<0.1	24.3	10.8	394	3.02	7.4	0.8	10.7	3.7	29	<0.1	0.7	<0.1	56	0.46	0.048
AC1111	Soil	0.8	21.9	9.1	53	<0.1	20.0	8.5	348	2.40	8.3	1.0	3.7	4.2	32	0.1	0.7	<0.1	47	0.47	0.056
AC1112	Soil	1.1	20.2	8.2	74	<0.1	19.3	8.9	369	2.60	7.9	1.2	23.5	4.4	29	0.2	0.7	<0.1	46	0.40	0.069
AC1113	Soil	0.5	8.1	4.8	62	<0.1	4.7	8.2	788	3.82	6.9	1.0	14.2	3.5	17	0.3	0.5	<0.1	35	0.38	0.135



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
MS1105	Soil	11	39	1.36	234	0.074	2	1.98	0.009	0.05	0.1	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2
MS1106	Soil	8	53	1.57	203	0.066	3	2.03	0.008	0.02	0.1	0.03	5.0	<0.1	<0.05	6	<0.5	<0.2
MS1107	Soil	6	49	1.64	152	0.038	<1	2.02	0.006	0.02	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
MS1108	Soil	2	91	2.41	94	0.080	2	2.50	0.005	0.02	<0.1	<0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
MS1109	Soil	1	40	3.00	107	0.058	2	3.18	0.005	0.02	<0.1	<0.01	6.1	<0.1	<0.05	8	<0.5	<0.2
MS1110	Soil	14	23	0.73	320	0.042	2	1.59	0.013	0.03	0.3	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
MS1111	Soil	9	18	1.45	172	0.041	1	2.24	0.009	0.04	0.2	0.01	6.2	<0.1	<0.05	7	<0.5	<0.2
MS1112	Soil	9	21	1.16	151	0.034	2	1.79	0.008	0.02	0.2	0.02	5.3	<0.1	<0.05	6	<0.5	<0.2
MS1113	Soil	11	24	0.88	220	0.035	<1	1.74	0.008	0.03	0.2	0.03	5.5	<0.1	<0.05	5	<0.5	<0.2
MS1114	Soil	13	34	0.68	318	0.040	<1	1.65	0.010	0.03	0.3	0.03	5.1	<0.1	0.06	5	0.6	<0.2
MS1115	Soil	15	25	0.46	305	0.051	1	1.31	0.012	0.04	0.4	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
MS1116	Soil	13	35	0.80	240	0.045	2	1.81	0.012	0.04	0.4	0.02	6.5	<0.1	<0.05	6	<0.5	<0.2
MS1117	Soil	18	27	0.54	291	0.047	2	1.60	0.013	0.04	0.3	0.03	7.0	<0.1	<0.05	5	0.6	<0.2
MS1118	Soil	18	26	0.51	308	0.054	2	1.32	0.014	0.05	0.3	0.03	5.1	<0.1	<0.05	4	<0.5	<0.2
MS1119	Soil	15	26	0.55	315	0.045	3	1.50	0.014	0.04	0.2	0.03	4.8	<0.1	<0.05	4	<0.5	<0.2
MS1120	Soil	15	27	0.72	213	0.043	3	1.62	0.011	0.05	0.3	0.04	5.4	<0.1	<0.05	5	0.7	<0.2
MS1121	Soil	16	29	0.82	297	0.053	2	1.76	0.015	0.05	0.2	0.02	5.4	<0.1	<0.05	5	<0.5	<0.2
MS1122	Soil	17	24	0.56	311	0.052	2	1.38	0.014	0.04	0.4	0.04	4.7	<0.1	<0.05	4	<0.5	<0.2
MS1123	Soil	16	26	0.58	290	0.050	2	1.57	0.013	0.05	0.4	0.03	5.9	<0.1	<0.05	5	0.6	<0.2
MS1124	Soil	17	28	0.51	321	0.052	2	1.55	0.013	0.04	0.3	0.04	6.6	<0.1	<0.05	5	<0.5	<0.2
MS1125	Soil	15	27	0.50	227	0.059	3	1.22	0.016	0.05	0.5	0.03	5.7	<0.1	<0.05	4	<0.5	<0.2
AC1105	Soil	6	14	1.95	134	0.029	<1	2.49	0.004	0.02	<0.1	0.01	8.1	<0.1	<0.05	8	<0.5	<0.2
AC1106	Soil	11	17	0.58	236	0.025	<1	1.35	0.015	0.03	0.2	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2
AC1107	Soil	12	16	0.77	188	0.035	2	1.33	0.012	0.03	0.3	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2
AC1108	Soil	10	15	0.81	173	0.023	1	1.49	0.008	0.02	0.2	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
AC1109	Soil	10	38	0.88	201	0.033	1	1.63	0.009	0.02	0.2	0.02	5.4	<0.1	<0.05	5	0.6	<0.2
AC1110	Soil	14	38	0.75	320	0.059	1	1.92	0.013	0.04	0.2	0.03	5.6	<0.1	<0.05	5	<0.5	<0.2
AC1111	Soil	15	26	0.49	359	0.058	2	1.44	0.015	0.05	0.3	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
AC1112	Soil	15	26	0.54	287	0.049	2	1.43	0.012	0.04	0.6	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
AC1113	Soil	12	5	0.55	69	0.009	<1	1.49	0.004	0.06	0.4	<0.01	8.6	<0.1	<0.05	5	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
AC1114	Soil	0.5	13.2	4.9	117	<0.1	10.5	7.8	546	3.08	3.6	1.2	29.2	5.5	18	0.4	0.3	<0.1	31	0.39	0.104
AC1115	Soil	1.1	22.5	7.8	52	0.1	21.0	12.1	784	2.95	7.0	4.9	5.1	3.2	65	0.3	0.6	0.1	50	1.11	0.068
AC1116	Soil	0.9	18.6	5.8	51	0.2	14.0	15.9	708	3.62	7.4	0.5	17.4	4.3	15	0.3	0.4	0.1	34	0.40	0.077
AC1117	Soil	1.0	20.0	7.9	43	0.1	18.1	10.8	375	2.60	7.1	0.4	54.2	3.8	20	0.2	0.6	<0.1	41	0.36	0.057
AC1118	Soil	0.8	23.1	6.8	42	<0.1	19.5	8.2	266	2.22	8.6	0.5	4.7	4.5	21	<0.1	0.7	<0.1	46	0.31	0.059
AC1119	Soil	0.7	21.7	7.3	43	<0.1	21.1	8.4	300	2.39	9.0	0.6	9.8	4.5	22	<0.1	0.6	<0.1	48	0.29	0.053
AC1120	Soil	1.1	22.9	8.0	39	<0.1	20.2	9.1	241	2.44	8.6	1.4	7.4	4.3	30	<0.1	0.7	0.1	47	0.29	0.035
AC1121	Soil	0.6	8.8	5.4	19	0.2	6.3	5.6	320	1.75	7.0	1.4	4.5	11.0	12	0.1	0.3	0.4	18	0.22	0.065
AC1122	Soil	1.0	24.3	8.6	45	0.1	21.6	11.6	420	2.61	9.9	1.2	9.6	5.0	41	0.2	0.8	0.2	45	0.42	0.063
AC1123	Soil	1.0	36.8	7.3	40	0.3	10.8	8.5	321	2.45	10.6	1.2	23.7	6.7	23	0.1	0.4	0.5	20	0.27	0.055
AC1124	Soil	1.1	27.2	9.6	48	0.1	22.6	9.1	363	2.21	14.4	2.1	10.7	4.0	60	0.1	0.7	0.2	44	0.56	0.058
AC1125	Soil	1.2	28.2	9.9	52	0.1	19.8	9.2	302	2.51	10.4	2.9	9.2	4.1	59	0.2	0.6	0.2	46	0.63	0.044
MC1091	Soil	0.3	47.7	5.7	60	0.1	10.4	12.5	806	3.46	4.6	0.4	3.8	3.1	10	0.3	0.2	0.1	60	0.42	0.064
MC1092	Soil	0.4	30.1	4.0	70	<0.1	8.6	13.4	583	3.30	3.1	0.4	16.9	1.7	16	<0.1	0.4	<0.1	65	0.33	0.052
MC1093	Soil	0.4	53.1	6.2	89	0.2	13.9	16.0	870	3.87	4.6	0.6	6.7	2.1	20	0.2	0.4	<0.1	75	0.54	0.071
MC1094	Soil	0.6	27.4	6.3	56	0.1	17.1	12.8	585	2.84	5.1	1.2	7.1	2.1	24	0.2	0.5	<0.1	56	0.66	0.077
MC1095	Soil	0.7	26.6	6.9	55	0.1	18.9	11.1	536	2.73	6.6	1.6	69.7	3.0	25	0.1	0.6	<0.1	51	0.53	0.078
MC1096	Soil	0.9	26.6	9.4	49	0.1	24.2	11.0	415	2.91	7.5	1.1	73.3	3.9	31	<0.1	0.6	0.1	57	0.51	0.067
MC1097	Soil	1.0	26.4	10.0	54	0.1	24.0	11.0	404	2.73	10.1	1.3	3.4	4.3	35	<0.1	0.7	0.1	53	0.56	0.060
MC1098	Soil	1.4	20.2	10.2	77	0.1	21.5	9.6	334	2.78	6.5	1.6	19.5	4.4	31	0.2	0.6	0.1	54	0.47	0.067
MC1099	Soil	0.9	19.9	7.8	110	0.1	17.4	8.9	410	2.95	6.3	1.7	8.5	5.0	30	0.5	0.6	0.1	47	0.45	0.071
MC1100	Soil	0.9	17.4	8.2	47	<0.1	16.6	8.7	307	2.43	6.9	1.8	9.9	4.6	26	0.1	0.7	<0.1	46	0.49	0.068
MC1101	Soil	1.5	23.1	13.6	74	0.2	21.1	13.1	547	3.49	7.7	0.9	5.8	5.5	24	0.4	0.6	0.2	52	0.46	0.069
MC1102	Soil	0.9	24.0	9.4	46	0.1	21.6	10.5	548	2.67	8.2	1.9	4.9	4.1	34	0.1	0.6	0.1	51	0.62	0.061
MC1103	Soil	0.9	25.4	8.4	52	0.2	21.6	13.3	489	3.03	8.5	1.3	8.1	4.8	27	0.2	0.6	0.1	52	0.54	0.065
MC1104	Soil	1.2	29.0	15.4	49	0.1	21.9	10.2	421	2.76	8.3	0.7	27.6	4.1	28	0.1	0.7	0.1	48	0.49	0.052
MC1105	Soil	1.1	30.1	11.2	59	<0.1	24.4	10.7	355	3.24	9.9	0.8	8.1	4.9	30	0.1	0.8	0.1	59	0.41	0.040
MC1106	Soil	0.9	23.5	8.6	42	<0.1	18.5	8.0	240	2.67	9.6	1.2	15.6	5.1	25	<0.1	0.6	0.1	45	0.24	0.035
MC1107	Soil	0.7	22.8	4.2	27	<0.1	13.8	9.8	181	3.54	5.1	0.6	7.2	5.2	11	<0.1	0.3	0.2	41	0.17	0.042
MC1108	Soil	0.8	28.9	4.1	32	0.1	8.4	5.9	178	1.85	7.3	0.8	66.9	9.5	5	<0.1	0.4	0.6	10	0.05	0.018



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AC1114	Soil	18	14	0.49	149	0.018	<1	1.40	0.006	0.04	0.3	0.01	7.0	<0.1	<0.05	5	<0.5	<0.2
AC1115	Soil	16	25	0.64	366	0.034	<1	1.61	0.011	0.03	0.2	0.04	5.6	<0.1	<0.05	5	1.1	<0.2
AC1116	Soil	14	21	0.81	221	0.022	<1	1.57	0.006	0.04	0.3	0.02	6.9	<0.1	<0.05	5	<0.5	<0.2
AC1117	Soil	15	24	0.63	234	0.044	1	1.55	0.011	0.04	0.3	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
AC1118	Soil	15	24	0.48	240	0.054	3	1.16	0.013	0.04	0.4	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
AC1119	Soil	15	27	0.50	294	0.050	1	1.29	0.012	0.04	0.1	0.04	5.4	<0.1	<0.05	4	<0.5	<0.2
AC1120	Soil	16	29	0.52	244	0.050	<1	1.51	0.009	0.04	0.6	0.03	5.2	<0.1	<0.05	4	<0.5	<0.2
AC1121	Soil	27	6	0.22	132	0.006	<1	0.52	0.005	0.04	0.3	0.01	6.2	<0.1	<0.05	2	<0.5	<0.2
AC1122	Soil	17	23	0.56	283	0.041	<1	1.37	0.013	0.04	0.5	0.03	5.5	<0.1	<0.05	4	<0.5	<0.2
AC1123	Soil	14	11	0.29	151	0.016	<1	0.82	0.007	0.03	0.6	0.02	5.5	<0.1	<0.05	2	0.7	<0.2
AC1124	Soil	15	25	0.48	320	0.042	<1	1.36	0.015	0.05	0.4	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
AC1125	Soil	16	26	0.53	366	0.040	<1	1.54	0.016	0.05	0.4	0.03	5.4	<0.1	<0.05	4	0.6	<0.2
MC1091	Soil	13	22	1.17	49	0.004	<1	1.79	0.003	0.03	<0.1	<0.01	7.7	<0.1	<0.05	6	<0.5	<0.2
MC1092	Soil	6	12	1.45	157	0.034	<1	2.20	0.004	0.03	0.1	<0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
MC1093	Soil	8	21	1.55	131	0.025	<1	2.16	0.007	0.02	<0.1	0.02	7.6	<0.1	<0.05	7	<0.5	<0.2
MC1094	Soil	10	27	1.07	203	0.030	<1	1.64	0.008	0.03	0.2	0.03	5.5	<0.1	<0.05	4	<0.5	<0.2
MC1095	Soil	12	25	0.72	237	0.038	<1	1.48	0.010	0.03	0.3	0.02	5.0	<0.1	<0.05	4	<0.5	<0.2
MC1096	Soil	14	46	0.69	306	0.051	1	1.74	0.013	0.04	0.3	0.03	5.6	<0.1	<0.05	5	<0.5	<0.2
MC1097	Soil	16	32	0.50	392	0.053	<1	1.53	0.014	0.05	0.3	0.04	4.5	<0.1	<0.05	4	<0.5	<0.2
MC1098	Soil	15	34	0.62	276	0.048	<1	1.73	0.015	0.04	0.3	0.02	5.4	<0.1	<0.05	5	<0.5	<0.2
MC1099	Soil	16	27	0.59	299	0.045	<1	1.63	0.013	0.04	0.3	0.02	6.5	<0.1	<0.05	5	0.7	<0.2
MC1100	Soil	16	23	0.44	242	0.042	<1	1.26	0.012	0.03	0.4	0.03	5.0	<0.1	<0.05	4	0.7	<0.2
MC1101	Soil	21	32	0.79	301	0.037	<1	1.92	0.011	0.04	0.2	0.03	8.3	<0.1	<0.05	6	<0.5	<0.2
MC1102	Soil	19	30	0.57	367	0.050	<1	1.67	0.012	0.04	0.3	0.03	5.8	<0.1	<0.05	5	<0.5	<0.2
MC1103	Soil	19	30	0.71	322	0.047	<1	1.75	0.012	0.04	0.2	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2
MC1104	Soil	18	32	0.56	353	0.052	<1	1.73	0.014	0.05	0.2	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
MC1105	Soil	18	31	0.55	377	0.066	<1	1.86	0.015	0.06	0.2	0.03	6.1	<0.1	<0.05	6	<0.5	<0.2
MC1106	Soil	17	25	0.44	276	0.039	<1	1.39	0.012	0.04	0.5	0.03	5.7	<0.1	<0.05	4	<0.5	<0.2
MC1107	Soil	18	23	0.94	151	0.023	<1	1.89	0.005	0.03	0.2	<0.01	6.7	<0.1	<0.05	6	<0.5	<0.2
MC1108	Soil	24	7	0.12	78	0.005	<1	0.53	0.006	0.03	0.3	0.03	5.5	<0.1	<0.05	2	0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
MC1109	Soil	1.0	31.5	5.5	47	<0.1	17.2	9.3	215	2.48	7.1	0.8	13.7	4.8	11	<0.1	0.4	0.2	32	0.13	0.021
MC1110	Soil	1.1	30.9	10.5	52	0.1	18.0	9.4	448	2.64	17.1	0.9	12.3	5.8	30	0.2	0.7	0.2	39	0.34	0.035
GR0220	Soil	1.0	30.5	10.2	51	0.2	21.0	9.0	435	2.57	9.6	1.2	17.1	6.3	33	0.2	0.7	0.2	46	0.40	0.042
GR0221	Soil	0.2	13.1	1.7	62	<0.1	1.5	6.8	670	2.90	0.6	0.2	4.8	0.7	21	<0.1	0.2	<0.1	35	0.40	0.104
GR0222	Soil	0.5	25.9	3.7	76	0.1	7.9	11.6	937	3.24	2.0	0.2	5.0	1.6	13	<0.1	0.2	<0.1	43	0.64	0.093
GR0223	Soil	0.8	49.8	6.4	74	<0.1	14.4	11.0	1065	3.71	4.3	0.8	9.3	5.4	12	<0.1	0.4	<0.1	42	0.31	0.077
GR0224	Soil	1.1	28.0	8.3	55	0.1	24.1	15.6	736	4.07	7.1	0.7	27.2	3.3	18	0.1	0.6	0.1	59	0.38	0.065
GR0225	Soil	0.8	27.4	8.7	54	0.1	22.7	11.7	474	3.33	7.2	0.8	21.8	4.1	24	0.1	0.7	0.1	59	0.39	0.053
GR0226	Soil	1.1	20.7	10.0	61	<0.1	19.5	8.6	492	2.23	7.9	0.9	5.5	4.3	26	0.2	0.8	<0.1	46	0.41	0.060
GR0227	Soil	0.5	14.8	7.0	76	<0.1	11.8	7.7	297	2.32	6.9	1.0	31.2	5.0	19	0.3	0.5	<0.1	39	0.30	0.063
GR0228	Soil	0.3	21.1	8.0	377	<0.1	5.8	7.4	762	2.71	5.6	1.0	8.1	5.9	16	1.1	0.3	0.1	28	0.29	0.088
GR0229	Soil	0.3	5.5	5.1	56	<0.1	8.6	17.7	1266	4.67	2.6	1.2	5.5	3.8	18	0.2	0.9	0.3	101	0.39	0.112



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
MC1109	Soil	14	19	0.64	170	0.015	<1	1.44	0.004	0.03	0.3	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
MC1110	Soil	18	22	0.46	353	0.046	<1	1.57	0.011	0.05	0.4	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
GR0220	Soil	18	25	0.51	317	0.047	<1	1.46	0.013	0.05	0.8	0.04	5.3	<0.1	<0.05	4	0.6	<0.2
GR0221	Soil	2	2	1.06	43	0.018	<1	1.55	0.003	0.02	<0.1	<0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
GR0222	Soil	5	11	1.48	79	0.003	<1	1.93	0.003	0.02	<0.1	0.01	5.6	<0.1	<0.05	6	<0.5	<0.2
GR0223	Soil	23	16	1.16	141	0.011	<1	1.83	0.003	0.03	<0.1	0.01	7.7	<0.1	<0.05	6	<0.5	<0.2
GR0224	Soil	10	38	1.03	202	0.035	<1	2.01	0.009	0.04	0.4	0.03	7.3	<0.1	<0.05	6	<0.5	<0.2
GR0225	Soil	12	40	0.87	303	0.060	<1	1.95	0.013	0.04	0.2	0.02	5.7	<0.1	<0.05	6	<0.5	<0.2
GR0226	Soil	13	25	0.47	294	0.054	<1	1.27	0.016	0.04	0.3	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
GR0227	Soil	15	18	0.48	180	0.047	<1	1.32	0.010	0.04	0.5	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
GR0228	Soil	18	12	0.60	79	0.012	<1	1.45	0.004	0.03	0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
GR0229	Soil	11	20	1.32	151	0.008	<1	2.28	0.004	0.01	1.3	<0.01	13.3	<0.1	<0.05	7	<0.5	<0.2



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
AC1108	Soil	0.4	22.4	5.0	54	0.1	13.3	8.7	584	2.72	5.1	0.9	41.4	2.4	18	0.1	0.3	<0.1	39	0.51	0.082
REP AC1108	QC	0.4	23.8	4.8	57	0.1	14.0	8.9	585	2.83	5.2	0.9	7.5	2.5	20	<0.1	0.3	<0.1	41	0.54	0.080
AC1119	Soil	0.7	21.7	7.3	43	<0.1	21.1	8.4	300	2.39	9.0	0.6	9.8	4.5	22	<0.1	0.6	<0.1	48	0.29	0.053
REP AC1119	QC	0.6	21.8	7.5	41	<0.1	20.4	8.3	295	2.32	8.9	0.7	5.4	4.7	21	<0.1	0.7	<0.1	44	0.28	0.052
MC1109	Soil	1.0	31.5	5.5	47	<0.1	17.2	9.3	215	2.48	7.1	0.8	13.7	4.8	11	<0.1	0.4	0.2	32	0.13	0.021
REP MC1109	QC	0.9	30.0	5.3	47	<0.1	15.8	9.3	204	2.51	6.6	0.8	16.1	5.2	12	<0.1	0.4	0.2	32	0.13	0.022
GR0229	Soil	0.3	5.5	5.1	56	<0.1	8.6	17.7	1266	4.67	2.6	1.2	5.5	3.8	18	0.2	0.9	0.3	101	0.39	0.112
REP GR0229	QC	0.4	5.0	5.3	58	<0.1	8.9	16.9	1265	4.55	2.5	1.3	7.4	3.9	17	0.2	0.8	0.3	100	0.38	0.095
Reference Materials																					
STD DS9	Standard	12.9	103.3	123.8	311	1.8	37.3	6.8	579	2.30	25.0	3.1	125.8	7.5	79	2.2	6.3	6.7	43	0.76	0.078
STD DS9	Standard	12.8	102.6	121.3	296	1.8	39.3	7.3	579	2.29	26.5	2.9	107.9	7.3	79	2.4	6.3	6.3	39	0.75	0.083
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
AC1108	Soil	10	15	0.81	173	0.023	1	1.49	0.008	0.02	0.2	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
REP AC1108	QC	11	17	0.83	181	0.024	1	1.54	0.009	0.03	0.2	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
AC1119	Soil	15	27	0.50	294	0.050	1	1.29	0.012	0.04	0.1	0.04	5.4	<0.1	<0.05	4	<0.5	<0.2
REP AC1119	QC	14	26	0.50	285	0.050	2	1.29	0.013	0.04	0.2	0.03	5.4	<0.1	<0.05	4	<0.5	<0.2
MC1109	Soil	14	19	0.64	170	0.015	<1	1.44	0.004	0.03	0.3	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
REP MC1109	QC	14	18	0.65	158	0.016	<1	1.42	0.004	0.03	0.2	0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
GR0229	Soil	11	20	1.32	151	0.008	<1	2.28	0.004	0.01	1.3	<0.01	13.3	<0.1	<0.05	7	<0.5	<0.2
REP GR0229	QC	11	20	1.27	154	0.008	<1	2.19	0.005	0.01	1.1	<0.01	12.9	<0.1	<0.05	7	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	16	125	0.64	320	0.127	3	1.01	0.094	0.36	3.2	0.22	2.6	5.6	0.13	5	4.7	5.2
STD DS9	Standard	15	114	0.63	315	0.126	3	0.96	0.097	0.36	3.0	0.21	2.9	5.4	0.11	5	5.4	5.0
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Klondike Gold Corp.**
711 - 675 W. Hastings St.
Vancouver BC V6B 1N2 Canada

Submitted By: Iain Mitchell
Receiving Lab: Canada-Dawson City
Received: August 27, 2012
Report Date: September 05, 2012
Page: 1 of 3

CERTIFICATE OF ANALYSIS

DAW12000274.1

CLIENT JOB INFORMATION

Project: Gold Run
Shipment ID: KGS-005
P.O. Number
Number of Samples: 54

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Klondike Gold Corp.
711 - 675 W. Hastings St.
Vancouver BC V6B 1N2
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	54	Dry at 60C			DAW
SS80	54	Dry at 60C sieve 100g to -80 mesh			DAW
1DX2	54	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
RJSV	54	Saving all or part of Soil Reject			DAW

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Part: 1 of 2

CERTIFICATE OF ANALYSIS

DAW12000274.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
AC1127	Soil				1.8	27.9	8.6	59	0.4	32.4	10.0	340	2.66	68.1	0.5	0.9	2.6	10	0.1	0.6	0.3	45	0.13	0.057
AC1128	Soil				4.8	85.2	11.5	130	0.9	65.6	15.7	597	4.31	577.3	1.3	15.7	6.4	13	0.5	0.9	0.2	23	0.32	0.103
AC1129	Soil				1.8	49.8	9.6	85	0.7	43.6	11.8	386	3.18	61.2	1.2	8.4	5.6	15	0.2	0.6	0.4	45	0.21	0.052
AC1130	Soil				2.3	50.5	13.1	112	1.2	55.1	12.3	366	3.43	103.6	0.9	5.4	4.8	14	0.2	0.7	0.8	47	0.18	0.043
AC1131	Soil				1.3	51.3	8.2	94	0.2	42.9	9.5	307	3.14	78.4	0.9	8.0	6.2	7	0.2	0.4	0.2	26	0.19	0.085
AC1132	Soil				2.2	61.2	9.0	76	0.9	52.9	12.3	235	3.38	103.2	0.9	5.3	5.7	6	0.3	0.6	0.2	39	0.08	0.043
AC1133	Soil				1.6	39.1	11.4	90	0.4	39.3	9.1	298	2.79	67.4	0.8	4.0	4.7	14	0.3	0.8	0.2	53	0.17	0.035
AC1134	Soil				1.5	31.8	10.0	94	0.8	27.2	8.5	457	2.80	79.3	0.5	16.8	4.4	7	0.3	0.4	0.2	40	0.07	0.040
AC1135	Soil				1.1	55.5	7.7	90	0.2	34.1	9.5	386	3.55	49.3	1.5	11.7	7.3	6	0.2	0.4	0.2	22	0.11	0.073
AC1136	Soil				2.1	70.0	10.9	114	0.5	54.6	12.4	453	3.42	59.1	1.8	42.8	5.8	9	0.4	0.8	0.3	43	0.11	0.062
AC1137	Soil				1.1	49.8	9.3	73	0.1	38.3	9.7	331	2.83	72.1	0.7	2.1	5.0	7	0.3	0.4	0.2	34	0.17	0.098
AC1138	Soil				0.2	45.3	1.2	73	0.2	14.5	20.6	501	4.08	1.9	0.3	2.7	0.9	27	<0.1	0.1	<0.1	46	3.18	0.065
AC1139	Soil				0.4	60.2	5.3	53	0.3	21.9	14.5	968	3.05	3.2	1.4	2.6	0.9	43	0.2	0.3	0.1	54	1.46	0.081
AC1140	Soil				0.4	60.0	6.5	82	0.4	12.7	29.7	1279	5.34	3.1	0.4	18.3	1.4	7	0.2	0.2	0.2	102	0.28	0.076
AC1141	Soil				0.6	15.2	3.9	36	<0.1	10.6	10.6	460	2.68	4.1	0.9	2.7	4.5	9	<0.1	0.5	0.2	25	0.16	0.026
AC1142	Soil				0.3	93.0	3.3	48	0.4	13.7	35.3	1092	4.55	3.0	1.0	9.6	1.3	5	<0.1	0.2	0.4	58	0.16	0.052
AC1143	Soil				0.1	80.5	4.5	66	0.3	10.1	24.2	1479	4.40	4.1	0.3	11.0	2.2	16	<0.1	0.2	0.3	87	0.82	0.069
AC1144	Soil				1.2	78.8	5.1	146	0.4	6.6	19.1	1191	5.51	5.4	0.6	23.3	3.6	7	0.6	0.3	0.4	26	0.27	0.080
AC1145	Soil				0.8	56.8	5.4	159	0.5	12.2	19.9	811	5.70	5.9	0.6	13.1	1.9	7	0.4	0.5	0.4	22	0.24	0.058
AC1146	Soil				0.5	122.5	4.5	254	1.2	8.1	21.8	1383	5.29	5.6	0.5	28.1	2.1	16	0.9	0.2	0.7	52	1.98	0.086
AC1147	Soil				0.1	116.2	2.4	56	0.2	27.2	29.0	701	4.67	0.7	0.2	1.9	0.4	25	<0.1	0.2	<0.1	115	1.48	0.041
AC1148	Soil				0.1	99.6	2.5	64	0.3	32.2	24.2	1044	4.10	0.8	<0.1	3.4	0.5	23	<0.1	<0.1	<0.1	92	2.12	0.044
MS1126	Soil				2.8	66.5	8.4	87	0.3	70.4	16.1	369	3.76	218.8	1.2	11.2	6.3	13	0.2	0.8	0.3	33	0.36	0.114
MS1127	Soil				1.7	39.2	7.8	67	0.3	36.2	10.1	360	2.57	27.1	0.7	6.2	4.5	15	0.2	0.6	0.2	39	0.32	0.077
MS1128	Soil				2.1	61.5	7.9	63	0.2	43.9	12.6	464	3.34	52.2	1.0	5.6	6.2	7	0.2	0.5	0.3	34	0.21	0.093
MS1129	Soil				3.5	91.9	13.2	173	1.1	89.3	25.6	1021	5.37	232.7	1.5	19.8	4.3	8	0.9	0.6	0.8	24	0.20	0.100
MS1130	Soil				1.2	39.6	6.5	78	0.2	29.8	10.1	248	2.88	43.3	0.5	0.9	6.1	4	0.2	0.4	0.1	31	0.10	0.040
MS1131	Soil				1.5	28.1	6.0	122	0.2	31.7	9.7	566	3.00	68.0	1.0	2.9	9.2	9	0.4	0.1	<0.1	8	0.58	0.158
MS1132	Soil				4.7	104.6	23.3	167	0.8	58.2	11.6	532	4.41	422.4	2.0	6.2	7.3	4	0.9	1.5	0.8	29	0.05	0.044
MS1133	Soil				2.4	86.3	5.5	109	0.2	68.1	16.4	427	3.14	50.2	1.2	10.5	4.2	9	0.4	0.2	<0.1	30	0.21	0.113



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AC1127	Soil	11	28	0.44	312	0.014	<1	1.49	0.008	0.05	0.2	<0.01	2.7	<0.1	<0.05	4	0.7	<0.2
AC1128	Soil	18	17	0.14	199	0.005	<1	0.55	0.007	0.04	0.2	0.08	4.8	<0.1	<0.05	2	2.0	<0.2
AC1129	Soil	15	35	0.64	208	0.028	<1	1.46	0.004	0.05	0.2	0.02	3.5	<0.1	<0.05	4	1.2	0.2
AC1130	Soil	16	36	0.56	263	0.015	<1	1.60	0.005	0.06	0.1	0.01	3.7	<0.1	<0.05	5	0.9	<0.2
AC1131	Soil	15	33	0.72	127	0.005	<1	1.26	0.003	0.02	0.1	0.02	4.3	<0.1	<0.05	4	1.2	<0.2
AC1132	Soil	15	33	0.50	166	0.009	<1	1.38	0.003	0.04	0.2	0.01	2.9	<0.1	<0.05	4	0.8	<0.2
AC1133	Soil	14	28	0.36	493	0.017	<1	1.61	0.006	0.04	0.2	0.02	4.5	<0.1	<0.05	4	1.1	<0.2
AC1134	Soil	13	27	0.42	254	0.011	<1	1.51	0.004	0.03	0.2	0.01	3.3	<0.1	<0.05	4	0.5	<0.2
AC1135	Soil	21	13	0.15	153	0.003	<1	0.78	0.003	0.03	0.2	0.04	3.5	<0.1	<0.05	3	1.3	<0.2
AC1136	Soil	17	30	0.22	237	0.013	<1	0.92	0.004	0.04	0.3	0.05	6.2	<0.1	<0.05	4	1.1	<0.2
AC1137	Soil	14	29	0.57	207	0.006	<1	1.41	0.006	0.04	0.2	<0.01	2.2	<0.1	<0.05	4	0.7	<0.2
AC1138	Soil	2	10	1.45	70	0.001	<1	1.80	0.005	0.03	<0.1	<0.01	8.7	<0.1	<0.05	5	<0.5	<0.2
AC1139	Soil	7	22	1.16	272	0.010	<1	1.94	0.007	0.02	0.1	0.03	7.4	<0.1	0.07	4	1.3	<0.2
AC1140	Soil	8	16	1.79	108	0.003	<1	2.07	0.002	0.01	<0.1	0.02	12.3	<0.1	<0.05	7	1.1	<0.2
AC1141	Soil	8	12	0.59	175	0.016	<1	1.01	0.004	0.02	<0.1	0.01	4.2	<0.1	<0.05	3	0.9	<0.2
AC1142	Soil	3	20	1.54	49	0.047	<1	1.61	0.003	<0.01	<0.1	0.01	5.9	<0.1	<0.05	5	0.7	0.2
AC1143	Soil	11	14	1.40	159	0.003	<1	1.95	0.011	0.02	<0.1	0.02	14.8	<0.1	0.10	7	0.7	<0.2
AC1144	Soil	4	5	0.65	135	0.002	<1	1.05	0.004	0.02	<0.1	0.02	10.3	<0.1	0.06	3	0.5	<0.2
AC1145	Soil	4	8	0.73	111	0.002	<1	1.03	0.004	0.02	<0.1	0.02	8.6	<0.1	<0.05	3	1.2	<0.2
AC1146	Soil	4	4	1.13	111	0.002	<1	1.82	0.008	0.03	<0.1	0.01	10.9	<0.1	<0.05	6	<0.5	0.5
AC1147	Soil	2	44	2.09	43	0.002	<1	2.59	0.003	<0.01	<0.1	<0.01	14.7	<0.1	<0.05	8	<0.5	<0.2
AC1148	Soil	3	49	2.59	43	0.005	<1	2.56	0.002	<0.01	<0.1	<0.01	14.6	<0.1	<0.05	7	<0.5	<0.2
MS1126	Soil	17	27	0.37	250	0.006	<1	0.92	0.004	0.03	0.1	0.02	4.3	<0.1	<0.05	3	1.4	0.3
MS1127	Soil	10	30	0.65	223	0.022	<1	1.33	0.006	0.03	0.2	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
MS1128	Soil	20	30	0.79	112	0.010	<1	1.62	0.002	0.02	0.1	<0.01	2.9	<0.1	<0.05	5	1.0	<0.2
MS1129	Soil	15	20	0.25	196	0.005	<1	0.68	0.005	0.03	0.2	0.05	7.5	<0.1	<0.05	2	1.9	<0.2
MS1130	Soil	15	32	0.84	167	0.004	<1	1.61	0.003	0.02	<0.1	<0.01	2.7	<0.1	<0.05	5	1.1	<0.2
MS1131	Soil	15	6	0.07	140	0.002	<1	0.29	0.006	0.02	<0.1	0.02	3.1	<0.1	<0.05	1	<0.5	<0.2
MS1132	Soil	18	15	0.10	158	0.007	<1	0.69	0.005	0.04	0.7	0.07	5.2	<0.1	<0.05	2	2.0	0.2
MS1133	Soil	16	17	0.13	183	0.004	<1	0.62	0.003	0.03	0.4	0.02	2.6	<0.1	<0.05	2	2.8	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
MS1134	Soil	7.5	89.7	30.3	83	0.9	80.9	14.2	261	3.75	839.7	1.5	8.6	6.3	6	0.5	0.7	3.5	26	0.08	0.059
MS1135	Soil	3.7	71.1	10.8	143	0.3	57.8	15.4	496	4.03	138.0	1.1	5.8	4.9	5	0.6	1.1	0.3	34	0.06	0.047
MS1136	Soil	3.9	65.4	10.8	134	0.4	95.2	19.5	778	4.25	184.5	1.4	5.8	3.4	8	0.3	0.6	0.3	36	0.17	0.095
MS1137	Soil	1.2	35.3	9.4	55	0.3	25.4	8.1	224	2.68	57.2	0.8	5.4	3.8	8	0.1	0.6	0.1	39	0.08	0.022
MS1138	Soil	<0.1	20.8	1.5	60	0.1	17.1	24.5	1033	3.35	4.4	0.2	9.2	0.6	50	<0.1	0.1	<0.1	10	5.72	0.043
MS1139	Soil	0.3	83.9	1.5	87	0.2	20.0	24.2	552	4.85	1.2	0.2	0.8	0.7	21	<0.1	<0.1	<0.1	67	1.37	0.070
MS1140	Soil	1.4	55.8	4.3	53	0.3	18.3	40.6	1070	4.70	2.7	0.4	16.9	2.3	22	<0.1	0.3	0.9	31	1.04	0.057
MS1141	Soil	0.4	12.7	4.4	157	0.2	14.8	33.0	3353	7.06	7.8	0.4	6.8	1.2	9	<0.1	0.2	0.5	62	0.15	0.044
MS1142	Soil	0.3	13.2	4.4	80	0.1	11.4	27.2	1457	4.03	1.7	0.6	7.3	1.5	10	<0.1	<0.1	0.3	55	0.20	0.042
MS1143	Soil	0.5	132.5	4.3	167	0.4	16.5	29.9	2456	6.58	3.3	0.7	9.5	2.2	11	0.2	0.3	0.5	76	0.37	0.067
MS1144	Soil	0.8	121.7	6.7	149	0.7	15.1	21.4	1426	4.77	6.6	0.5	10.2	3.6	14	0.8	0.7	0.6	60	0.85	0.085
MS1145	Soil	0.8	109.1	6.4	129	0.8	16.0	27.2	1488	5.63	6.3	0.7	12.5	3.1	14	0.9	0.4	0.6	59	0.47	0.078
MS1146	Soil	0.7	140.2	7.6	235	0.5	21.3	19.3	1110	4.85	5.6	0.4	4.0	2.7	16	1.2	0.4	0.1	81	0.62	0.068
MS1147	Soil	0.6	72.4	7.9	87	0.3	23.4	16.2	843	4.12	6.5	1.4	2.9	2.8	20	0.2	0.5	0.2	60	0.62	0.077
MS1148	Soil	0.5	111.2	4.9	92	0.4	20.4	24.2	1618	4.84	1.9	0.2	2.4	2.5	13	0.3	0.1	0.2	68	0.86	0.085
MS1149	Soil	0.8	63.6	8.4	76	0.5	23.5	17.0	1050	4.26	4.8	0.7	5.5	3.0	18	0.2	0.3	0.2	54	0.67	0.102
MS1150	Soil	0.8	62.0	11.7	82	0.3	24.4	13.8	704	3.73	7.4	0.7	3.7	4.8	17	0.2	0.5	0.2	66	0.47	0.073
WDM2001	Soil	2.4	47.4	10.1	90	0.7	40.7	10.6	306	2.69	106.5	1.1	16.3	5.0	16	0.4	0.5	0.4	41	0.26	0.085
WDM2002	Soil	0.6	96.9	12.3	145	1.9	24.4	25.8	815	5.16	11.8	0.3	107.0	2.5	20	0.7	4.2	0.3	27	0.71	0.060
WDM2003	Soil	0.7	91.1	11.0	265	0.6	10.0	21.1	798	4.71	9.1	0.4	9.2	4.3	33	2.4	0.8	0.7	20	1.86	0.098
WDM2004	Soil	1.0	33.7	8.5	81	0.2	20.4	7.8	409	2.53	164.8	0.9	24.3	6.4	6	0.2	0.4	0.1	14	0.15	0.049
WDM2005	Soil	0.5	19.3	7.7	44	0.2	10.6	5.6	441	1.73	147.5	0.8	17.6	7.8	7	0.1	0.4	0.1	4	0.21	0.043
WDM2006	Soil	0.8	82.1	5.9	110	0.4	14.4	13.6	776	3.80	6.6	0.4	14.1	3.3	15	0.4	0.3	0.4	53	0.46	0.071
WDM2007	Soil	0.7	70.4	8.1	80	0.2	19.8	14.5	352	3.32	7.7	1.0	16.6	4.1	19	0.3	0.5	0.2	52	0.55	0.065



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Project: Gold Run
Report Date: September 05, 2012

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CERTIFICATE OF ANALYSIS

DAW12000274.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
MS1134	Soil	18	14	0.08	177	0.009	<1	0.77	0.004	0.03	0.3	0.01	2.9	<0.1	<0.05	2	1.8	0.7
MS1135	Soil	14	25	0.09	141	0.004	<1	0.72	0.003	0.04	0.2	0.01	3.4	<0.1	<0.05	3	2.7	<0.2
MS1136	Soil	12	48	0.57	238	0.006	<1	1.28	0.005	0.03	0.2	0.01	5.0	<0.1	<0.05	4	1.6	<0.2
MS1137	Soil	13	24	0.38	240	0.023	<1	1.30	0.006	0.03	0.2	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
MS1138	Soil	<1	2	0.61	26	<0.001	<1	0.31	0.008	0.03	<0.1	<0.01	12.4	<0.1	0.12	<1	<0.5	<0.2
MS1139	Soil	2	14	1.59	24	0.002	<1	2.36	0.004	0.02	0.2	<0.01	8.0	<0.1	<0.05	7	<0.5	<0.2
MS1140	Soil	5	7	0.64	94	0.004	<1	0.98	0.007	0.02	<0.1	0.02	13.0	<0.1	0.08	3	1.2	0.4
MS1141	Soil	3	13	1.40	268	0.007	<1	1.81	0.012	0.02	<0.1	<0.01	19.0	<0.1	<0.05	5	0.5	<0.2
MS1142	Soil	4	12	1.82	55	0.011	1	2.02	0.003	0.01	<0.1	<0.01	6.9	<0.1	<0.05	6	<0.5	0.2
MS1143	Soil	6	11	0.91	206	0.004	1	1.51	0.012	0.03	0.1	<0.01	18.6	<0.1	<0.05	5	<0.5	<0.2
MS1144	Soil	10	16	1.01	139	0.013	1	1.80	0.006	0.04	0.1	0.04	9.5	<0.1	<0.05	6	<0.5	0.2
MS1145	Soil	9	14	1.37	155	0.011	<1	1.99	0.007	0.03	<0.1	0.03	9.1	<0.1	<0.05	6	0.7	0.7
MS1146	Soil	9	20	1.31	244	0.019	<1	2.48	0.006	0.05	<0.1	0.07	9.3	<0.1	<0.05	7	0.8	<0.2
MS1147	Soil	13	23	1.03	262	0.028	<1	2.25	0.008	0.03	0.2	0.04	8.6	<0.1	<0.05	6	<0.5	<0.2
MS1148	Soil	7	23	1.69	123	0.004	<1	2.44	0.003	0.03	<0.1	<0.01	10.0	<0.1	<0.05	7	<0.5	<0.2
MS1149	Soil	12	24	1.05	136	0.015	1	1.83	0.008	0.04	0.1	0.04	9.8	<0.1	<0.05	5	0.7	<0.2
MS1150	Soil	18	29	1.05	212	0.039	<1	2.08	0.008	0.05	0.2	0.06	9.5	<0.1	<0.05	6	<0.5	<0.2
WDM2001	Soil	16	29	0.38	273	0.033	<1	1.31	0.006	0.04	0.2	0.01	3.9	<0.1	<0.05	4	0.7	<0.2
WDM2002	Soil	6	13	0.32	107	0.008	<1	0.77	0.011	0.04	0.1	0.05	16.8	<0.1	0.05	2	<0.5	<0.2
WDM2003	Soil	4	6	0.56	59	0.002	1	0.87	0.010	0.04	0.2	0.05	10.4	<0.1	0.25	3	1.4	<0.2
WDM2004	Soil	24	8	0.15	182	0.004	<1	0.70	0.004	0.08	0.3	0.03	3.8	<0.1	<0.05	2	0.7	<0.2
WDM2005	Soil	20	3	0.12	170	<0.001	<1	0.55	0.004	0.10	0.1	0.01	1.9	<0.1	<0.05	1	<0.5	<0.2
WDM2006	Soil	10	17	1.03	140	0.016	<1	1.73	0.006	0.02	0.4	0.02	9.3	<0.1	<0.05	5	0.9	<0.2
WDM2007	Soil	14	22	0.82	254	0.029	<1	1.60	0.008	0.03	0.3	0.04	7.3	<0.1	<0.05	5	0.6	<0.2



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Project:

Gold Run

Report Date:

September 05, 2012

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QUALITY CONTROL REPORT

DAW12000274.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
AC1132	Soil	2.2	61.2	9.0	76	0.9	52.9	12.3	235	3.38	103.2	0.9	5.3	5.7	6	0.3	0.6	0.2	39	0.08	0.043
REP AC1132	QC	2.2	60.5	8.5	77	0.9	53.4	11.8	232	3.42	104.0	0.8	3.2	5.4	6	0.2	0.6	0.2	39	0.09	0.041
AC1137	Soil	1.1	49.8	9.3	73	0.1	38.3	9.7	331	2.83	72.1	0.7	2.1	5.0	7	0.3	0.4	0.2	34	0.17	0.098
REP AC1137	QC	1.1	50.2	9.1	73	0.2	40.6	9.9	347	2.92	74.0	0.7	3.1	4.9	7	0.3	0.4	0.2	36	0.17	0.098
MS1145	Soil	0.8	109.1	6.4	129	0.8	16.0	27.2	1488	5.63	6.3	0.7	12.5	3.1	14	0.9	0.4	0.6	59	0.47	0.078
REP MS1145	QC	0.8	108.2	6.6	123	0.8	16.5	26.8	1476	5.68	6.0	0.6	12.3	3.2	15	1.0	0.4	0.6	60	0.47	0.085
MS1150	Soil	0.8	62.0	11.7	82	0.3	24.4	13.8	704	3.73	7.4	0.7	3.7	4.8	17	0.2	0.5	0.2	66	0.47	0.073
REP MS1150	QC	0.6	67.1	11.1	85	0.3	25.9	14.6	758	3.85	7.7	0.7	4.5	5.0	18	0.2	0.5	0.2	67	0.45	0.080
Reference Materials																					
STD DS9	Standard	11.9	101.1	114.7	304	1.8	35.4	7.1	559	2.17	25.8	2.6	124.5	6.0	70	2.2	6.1	6.8	39	0.67	0.079
STD DS9	Standard	13.4	109.8	126.1	316	1.8	39.4	7.6	605	2.39	25.7	2.9	124.2	6.3	85	2.7	6.8	6.7	42	0.75	0.085
STD DS9	Standard	14.4	115.2	129.7	325	1.9	40.6	8.4	634	2.51	27.9	3.0	131.2	7.4	85	2.4	6.4	7.3	45	0.77	0.087
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Gold Run

Report Date: September 05, 2012

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QUALITY CONTROL REPORT

DAW12000274.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
AC1132	Soil	15	33	0.50	166	0.009	<1	1.38	0.003	0.04	0.2	0.01	2.9	<0.1	<0.05	4	0.8	<0.2
REP AC1132	QC	15	32	0.51	170	0.008	<1	1.37	0.004	0.04	0.2	0.01	2.9	<0.1	<0.05	4	0.9	<0.2
AC1137	Soil	14	29	0.57	207	0.006	<1	1.41	0.006	0.04	0.2	<0.01	2.2	<0.1	<0.05	4	0.7	<0.2
REP AC1137	QC	16	27	0.59	219	0.006	<1	1.43	0.003	0.04	0.2	<0.01	2.4	<0.1	<0.05	4	0.6	<0.2
MS1145	Soil	9	14	1.37	155	0.011	<1	1.99	0.007	0.03	<0.1	0.03	9.1	<0.1	<0.05	6	0.7	0.7
REP MS1145	QC	9	14	1.35	163	0.011	<1	2.00	0.008	0.03	<0.1	0.05	9.0	<0.1	<0.05	5	0.7	0.7
MS1150	Soil	18	29	1.05	212	0.039	<1	2.08	0.008	0.05	0.2	0.06	9.5	<0.1	<0.05	6	<0.5	<0.2
REP MS1150	QC	18	30	1.02	220	0.038	1	2.09	0.009	0.05	0.2	0.06	9.3	<0.1	<0.05	6	0.6	<0.2
Reference Materials																		
STD DS9	Standard	12	116	0.57	287	0.102	<1	0.86	0.077	0.36	3.0	0.20	2.8	5.3	0.14	5	4.5	5.1
STD DS9	Standard	15	123	0.64	325	0.114	4	1.00	0.095	0.42	3.1	0.18	3.2	5.5	0.13	5	6.1	5.1
STD DS9	Standard	15	128	0.64	338	0.133	3	1.07	0.108	0.44	3.1	0.22	3.8	5.6	0.14	5	6.0	5.5
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Iain Mitchell
Receiving Lab: Canada-Whitehorse
Received: August 27, 2012
Report Date: September 06, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI12000780.1

CLIENT JOB INFORMATION

Project: Bonanza & Gold Run
Shipment ID: KGR-026
P.O. Number
Number of Samples: 14

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	14	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1DX2	14	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Klondike Gold Corp.
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Canada

CC:



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Bonanza & Gold Run
Report Date: September 06, 2012

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CERTIFICATE OF ANALYSIS

WHI12000780.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1719815	Rock	4.14	0.2	20.0	12.3	36	0.2	325.3	21.0	2717	2.53	55.5	2.0	1.0	476	0.9	2.2	<0.1	16	9.64	0.020
1719816	Rock	4.18	0.2	12.0	13.5	22	0.1	77.1	7.7	1079	1.57	2.2	<0.5	0.4	149	0.6	0.5	<0.1	24	4.20	0.012
1719817	Rock	4.31	0.5	14.0	11.6	25	0.2	79.5	8.8	772	1.79	4.4	1.5	0.7	120	0.4	0.5	<0.1	23	2.57	0.013
1719818	Rock	4.74	1.6	20.7	37.3	21	0.4	68.0	7.0	1240	1.54	2.0	1.1	1.4	190	0.3	0.3	0.5	25	3.93	0.027
1719819	Rock	4.43	0.1	7.1	9.8	8	0.1	18.0	1.9	824	0.71	1.3	<0.5	1.1	82	0.4	<0.1	0.1	5	1.87	0.012
1719820	Rock	4.26	3.4	9.1	30.4	26	0.3	29.3	3.6	311	0.92	7.8	<0.5	0.8	85	0.4	1.6	0.2	9	0.98	0.030
1719821	Rock	3.55	0.4	68.3	1.5	71	<0.1	247.0	37.5	963	4.55	3.0	<0.5	0.3	223	0.1	1.2	<0.1	110	7.59	0.021
1719831	Rock	0.56	3.8	6.0	11.7	24	2.1	3.3	1.4	51	0.93	650.9	154.5	6.8	13	0.1	5.3	<0.1	2	0.04	0.007
1719832	Rock	0.74	2.6	13.9	106.4	23	1.3	1.9	0.4	39	3.68	34.7	1.2	7.1	8	<0.1	6.9	0.1	<2	0.03	0.009
1719833	Rock	0.45	<0.1	1.0	0.6	4	<0.1	1.4	0.8	79	0.47	2.7	0.8	<0.1	1	<0.1	<0.1	<0.1	<2	0.09	<0.001
1719834	Rock	0.72	0.5	10.0	2.6	63	<0.1	7.8	3.8	558	1.35	4.8	<0.5	0.3	2	0.1	<0.1	<0.1	9	0.03	0.015
1719835	Rock	0.64	3.9	93.6	14.5	141	0.3	56.9	13.7	429	3.30	118.5	3.9	4.9	13	0.9	0.3	0.5	26	0.29	0.149
1719836	Rock	0.40	0.4	60.5	4.0	92	0.4	23.5	26.1	1656	5.66	7.8	31.8	0.5	79	0.4	2.6	<0.1	17	4.47	0.034
1719837	Rock	0.51	0.4	25.9	3.5	62	1.1	9.4	12.1	636	2.41	8.1	22.5	0.2	55	0.3	4.2	<0.1	5	2.07	0.020



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Project: Bonanza & Gold Run
Report Date: September 06, 2012

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CERTIFICATE OF ANALYSIS

WHI12000780.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1719815	Rock	2	90	5.11	127	<0.001	2	0.13	0.009	0.02	<0.1	0.02	7.3	<0.1	0.52	<1	1.0	<0.2
1719816	Rock	2	105	1.86	98	0.002	<1	0.62	0.007	<0.01	<0.1	0.01	7.2	<0.1	0.44	2	0.7	<0.2
1719817	Rock	3	107	1.73	210	0.003	<1	0.61	0.006	<0.01	<0.1	0.01	7.0	<0.1	0.46	2	<0.5	<0.2
1719818	Rock	3	83	2.66	322	0.001	<1	0.63	0.014	<0.01	<0.1	<0.01	5.8	<0.1	0.12	2	<0.5	<0.2
1719819	Rock	9	18	0.99	115	<0.001	<1	0.20	0.005	<0.01	<0.1	<0.01	1.7	<0.1	<0.05	<1	<0.5	<0.2
1719820	Rock	2	21	0.69	93	<0.001	<1	0.30	0.001	0.05	<0.1	0.01	1.2	<0.1	0.15	<1	0.7	<0.2
1719821	Rock	2	504	3.96	322	0.045	<1	3.39	0.011	0.04	<0.1	0.01	15.7	<0.1	<0.05	7	<0.5	<0.2
1719831	Rock	21	4	0.05	136	<0.001	<1	0.25	0.003	0.16	<0.1	0.01	0.8	0.2	<0.05	<1	<0.5	<0.2
1719832	Rock	7	6	0.04	621	<0.001	<1	0.13	0.007	0.05	<0.1	0.21	0.3	<0.1	<0.05	<1	0.8	<0.2
1719833	Rock	<1	5	0.06	4	<0.001	3	0.10	<0.001	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
1719834	Rock	<1	10	0.34	72	0.002	<1	0.41	0.002	0.02	<0.1	<0.01	1.2	<0.1	<0.05	2	<0.5	<0.2
1719835	Rock	14	28	0.31	341	0.004	<1	0.73	0.009	0.12	0.2	<0.01	2.9	<0.1	<0.05	2	<0.5	<0.2
1719836	Rock	1	6	1.66	77	<0.001	1	0.38	0.080	0.10	<0.1	<0.01	17.0	<0.1	0.50	<1	0.5	<0.2
1719837	Rock	<1	5	0.78	38	<0.001	3	0.17	0.032	0.06	<0.1	<0.01	6.3	<0.1	0.70	<1	<0.5	<0.2



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Project:

Bonanza & Gold Run

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QUALITY CONTROL REPORT

WHI12000780.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																						
1719837	Rock	0.51	0.4	25.9	3.5	62	1.1	9.4	12.1	636	2.41	8.1	22.5	0.2	55	0.3	4.2	<0.1	5	2.07	0.020	
REP 1719837	QC		0.6	27.0	3.6	63	1.1	9.5	13.3	649	2.43	8.4	35.6	0.2	56	0.3	4.6	<0.1	5	2.10	0.022	
Core Reject Duplicates																						
1719834	Rock	0.72	0.5	10.0	2.6	63	<0.1	7.8	3.8	558	1.35	4.8	<0.5	0.3	2	0.1	<0.1	<0.1	9	0.03	0.015	
DUP 1719834	QC		0.4	7.4	2.3	56	<0.1	5.9	3.3	527	1.18	5.2	1.2	0.2	1	<0.1	<0.1	<0.1	8	0.03	0.014	
Reference Materials																						
STD DS9	Standard		13.4	111.1	127.7	312	2.0	39.4	8.0	564	2.33	26.2	117.4	7.0	74	2.4	5.5	6.8	39	0.71	0.081	
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
Prep Wash																						
G1-WHI	Prep Blank		<0.1	2.0	2.8	47	<0.1	10.2	4.7	558	2.02	<0.5	1.7	5.1	59	<0.1	<0.1	<0.1	36	0.43	0.069	
G1-WHI	Prep Blank		<0.1	1.7	2.9	46	<0.1	4.3	4.2	538	1.95	<0.5	2.8	4.9	58	<0.1	<0.1	<0.1	35	0.44	0.071	



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1719837	Rock	<1	5	0.78	38	<0.001	3	0.17	0.032	0.06	<0.1	<0.01	6.3	<0.1	0.70	<1	<0.5	<0.2
REP 1719837	QC	<1	5	0.78	38	<0.001	<1	0.16	0.032	0.06	<0.1	<0.01	6.4	<0.1	0.70	<1	<0.5	<0.2
Core Reject Duplicates																		
1719834	Rock	<1	10	0.34	72	0.002	<1	0.41	0.002	0.02	<0.1	<0.01	1.2	<0.1	<0.05	2	<0.5	<0.2
DUP 1719834	QC	<1	9	0.31	70	0.002	<1	0.38	0.002	0.02	<0.1	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	12	125	0.62	293	0.111	2	0.95	0.086	0.40	3.1	0.23	2.5	5.5	0.16	5	5.4	5.4
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-WHI	Prep Blank	8	11	0.63	227	0.097	3	0.95	0.076	0.49	<0.1	0.01	2.6	0.3	<0.05	5	<0.5	<0.2
G1-WHI	Prep Blank	8	8	0.58	219	0.096	1	0.92	0.069	0.47	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2

APPENDIX 5

GOLD RUN PROJECT SAMPLE LOCATIONS & DESCRIPTIONS - SOIL

Sample ID	Sampler	UTM East	UTM North	Notes	Colour	Texture	Depth (cm)	Quality
AC1105	A. Connolly	613602	7069600	Schist	Brown/Grey	Gravel	80	Good
AC1106	A. Connolly	613602	7069553		Orange/Brown	Gravel	70	Good
AC1107	A. Connolly	613602	7069501	Schist	Brown	Gravel	70	Good
AC1108	A. Connolly	613606	7069457		Dark Brown	Gravel	70	Good
AC1109	A. Connolly	613606	7069413		Dark Brown	Gravel	90	Good
AC1110	A. Connolly	613608	7069365		Dark Brown	Gravel	80	Good
AC1111	A. Connolly	613610	7069314	Schist	Dark Brown	Gravel	70	Good
AC1112	A. Connolly	613612	7069264		Brown	Gravel	80	Good
AC1113	A. Connolly	613614	7069213	Schist	Yellow	Gravel	70	Good
AC1114	A. Connolly	613617	7069160		Orange/Brown	Gravel	45	Good
AC1115	A. Connolly	613619	7069110		Black/Orange	Gravel	90	Good
AC1116	A. Connolly	613619	7069058		Orange/Brown	Gravel	80	Good
AC1117	A. Connolly	613621	7069008		Brown	Gravel	65	Good
AC1118	A. Connolly	613623	7068959		Brown	Gravel	60	Good
AC1119	A. Connolly	613627	7068906		Brown	Gravel	65	Good
AC1120	A. Connolly	613633	7068853		Brown	Gravel	55	Good
AC1121	A. Connolly	613629	7068801		Orange/Yellow	Gravel	90	Excellent
AC1122	A. Connolly	613631	7068751		Brown/Orange	Gravel	90	Good
AC1123	A. Connolly	613634	7068699		Brown/Yellow	Gravel	85	Good
AC1124	A. Connolly	613633	7068651		Brown	Gravel	100	Good
AC1125	A. Connolly	613638	7068614		Brown	Gravel	85	Good
GR0220	Greg Rodwell	613497	7069598	Schist	Yellow/Brown	Silt	115	Good
GR0221	Greg Rodwell	613500	7069551	Schist	Light Brown	Silt	75	Good
GR0222	Greg Rodwell	613499	7069498	Schist	Green/Brown	Silt	105	Good
GR0223	Greg Rodwell	613497	7069451	Schist	Green/Brown	Silt	95	Good
GR0224	Greg Rodwell	613499	7069400	Schist	Brown	Mud	110	Good
GR0225	Greg Rodwell	613500	7069350	Schist	Brown	Mud	110	Poor
GR0226	Greg Rodwell	613497	7069301	Schist	Brown	Mud	120	Good
GR0227	Greg Rodwell	613498	7069250	Orthogneiss/QTZ	Light Brown	Mud	85	Good
GR0228	Greg Rodwell	613500	7069198	Schist	Brown	Mud	95	Good
GR0229	Greg Rodwell	613499	7069151	Schist	Light Brown	Silt	105	Good
MC1091	MC	613700	7069601	qtz & QMS chips in soil	Light Brown	Sand	85	Good
MC1092	MC	613701	7069549	qtz & QMS chips in soil	Light Brown	Sand	50	Good
MC1093	MC	613702	7069498	thin O&A layers, QMS chips	Light Brown	Sand	50	Good
MC1094	MC	613699	7069451	thin O&A layers, QMS chips	Dark Brown	Sand	85	Good
MC1095	MC	613700	7069401	Clay-rich soil	Brown	Silt	100	Good
MC1096	MC	613699	7069350	Clay-rich soil, QMS chips	Brown	Silt	85	Good
MC1097	MC	613701	7069300	Clay-rich soil, QMS chips	Brown	Silt	100	Good
MC1098	MC	613703	7069250	Clay-rich soil, QMS chips	Brown	Silt	105	Good
MC1099	MC	613701	7069202	Clay-rich soil, QMS chips	Brown	Silt	95	Good
MC1100	MC	613701	7069151	Clay-rich soil, QMS & Qtz chips	Brown	Silt	95	Good
MC1101	MC	613705	7069103	Clay-rich soil, QMS chips	Brown	Silt	80	Good
MC1102	MC	613700	7069051	Thicker O&A layer, QMS chips	Brown	Silt	85	Good
MC1103	MC	613701	7069001	Clay-rich soil, QMS chips	Brown	Silt	80	Good
MC1104	MC	613700	7068948	Clay-rich soil, QMS chips	Brown	Silt	65	Good
MC1105	MC	613700	7068901	Clay-rich soil, QMS chips	Brown	Silt	75	Good
MC1106	MC	613700	7068851	Thicker O&A layer, QMS chips	Light Brown	Sand	80	Good
MC1107	MC	613700	7068799	Abundant QMS rock chips	Light Brown	Sand	60	Good
MC1108	MC	613699	7068751	Abundant QMS rock chips	Orange	Sand	75	Good
MC1109	MC	613699	7068702	Large (15cm+) chunks of qtz, QMS chips	Light Brown	Sand	60	Good
MC1110	MC	613702	7068652	Clay-rich soil, QMS chips	Light Brown	Sand	100	Good
MC1111	MC	613701	7068601	Thicker O&A layer, QMS chips	Light Brown	Sand	105	Good
MS1105	M. Sweeney	613800	7069800		Brown	Clay	70	Good
MS1106	M. Sweeney	613800	7069750	hard to pull auger due to clay	Brown	Clay	80	Good
MS1107	M. Sweeney	613800	7069700	hard to pull auger due to clay	Orange	Clay	100	Good
MS1108	M. Sweeney	613800	7069650	hard to pull auger due to clay	Orange	Clay	60	Good
MS1109	M. Sweeney	613800	7069600	hard to pull auger due to clay	Orange	Clay	90	Good
MS1110	M. Sweeney	613800	7069550	hard to pull auger due to clay	Brown	Mud	90	Good
MS1111	M. Sweeney	613800	7069500	Thick Overburden	Brown	Clay	80	Excellent

Sample ID	Sampler	UTM East	UTM North	Notes	Colour	Texture	Depth (cm)	Quality
MS1112	M. Sweeney	613800	7069450	Thick Overburden	Brown	Clay	70	Excellent
MS1113	M. Sweeney	613800	7069400	Thick Overburden	Brown	Clay	80	Excellent
MS1114	M. Sweeney	613800	7069350	Thick Overburden	Rusty	Clay	100	Excellent
MS1115	M. Sweeney	613800	7069300	Thick Overburden	Brown	Gravel	90	Excellent
MS1116	M. Sweeney	613800	7069250	Oxides (Red/Orange oxidised Pyrite/Sulphides)	Rusty	Sand	80	Excellent
MS1117	M. Sweeney	613800	7069200	Oxides	Rusty	Sand	60	Excellent
MS1118	M. Sweeney	613800	7069150	Oxides	Black/Red	Sand	70	Excellent
MS1119	M. Sweeney	613800	7069100	Qz vein found	Black	Sand	70	Excellent
MS1120	M. Sweeney	613800	7069050	Qz vein found	Black	Sand	100	Excellent
MS1121	M. Sweeney	613800	7069000		Brown	Sand	100	Good
MS1122	M. Sweeney	613800	7068950		Brownish Red	Mud	100	Good
MS1123	M. Sweeney	613800	7068900		Brownish Red	Mud	100	Good
MS1124	M. Sweeney	613800	7068850	Locality near old Mine workings	Brownish Red	Mud	80	Good
MS1125	M. Sweeney	613800	7068800	saturated sample	Grey	Mud	70	Good
WDM 2001	WDM	615381	7066611	polyolithic, subangular to subround schist pebbles	Brown-grey	mud	50	Good
WDM 2002	WDM	615307	7066396	muscovite schist	Orange-brown	Clay	25	Good
WDM 2003	WDM	615307	7066396	muscovite-rich soil & schist	Light Orange-brown	rocky	45	Excellent
WDM 2004	WDM	615386	7066331	decomposed musc. schist = sand	Light Orange-brown	Sand	25	Good
WDM 2005	WDM	615386	7066331	decomposed musc. schist = sand	Light Orange-brown	Sand	60	Excellent
WDM 2006	WDM	614701	7066717	Saturated soils, buried organic layers= solifluction	Brown-grey	mud	25	OK
WDM 2007	WDM	614701	7066717	QMS	Brown-grey	mud	45	OK
AC1127	A. Connolly	615999	7066200	Schist	Brown	Sand	40	Good
AC1128	A. Connolly	615948	7066198		Grey	Gravel	70	Good
AC1129	A. Connolly	615898	7066196		Yellow	Silt	50	Good
AC1130	A. Connolly	615848	7066195		Yellow	Silt	50	Good
AC1131	A. Connolly	615796	7066191		Yellow/Grey	Silt	65	Good
AC1132	A. Connolly	615695	7066189	Sample ID AC1133 and AC1132 switched around	Light Brown	Silt	55	Good
AC1133	A. Connolly	615746	7066190	Sample ID AC1133 and AC1132 switched around	Yellow/Brown	Silt	50	Good
AC1134	A. Connolly	615644	7066186		Yellow/Brown	Silt	35	Poor
AC1135	A. Connolly	615592	7066185		Orange	Gravel	60	Good
AC1136	A. Connolly	615547	7066182		Brown/Orange	Silt	65	Good
AC1137	A. Connolly	615495	7066183		Brown	Silt	55	Good
AC1138	A. Connolly	615440	7066180		Green/Blue	Silt	90	Excellent
AC1139	A. Connolly	615394	7066179		Black	Silt	65	Good
AC1140	A. Connolly	615345	7066179	Qtz, Chlor-Musc Schist	Green/Brown	Silt	120	Excellent
AC1141	A. Connolly	615295	7066177		Light Brown	Silt	65	Good
AC1142	A. Connolly	615248	7066177		Brown/Green	Silt	80	Excellent
AC1143	A. Connolly	615199	7066175		Brown/Green	Silt	85	Excellent
AC1144	A. Connolly	615147	7066173		Brown/Yellow	Gravel	80	Good
AC1145	A. Connolly	615099	7066173		Yellow	Silt	70	Good
AC1146	A. Connolly	615050	7066171		Green	Silt	110	Excellent
AC1147	A. Connolly	615002	7066168		Green	Gravel	85	Excellent
MS1126	M. Sweeney	614952	7066167	Schist	Light Brown	Sand	60	Good
MS1127	M. Sweeney	615950	7066300		Light Brown	Sand	40	Good
MS1128	M. Sweeney	615900	7066300	Qtz, Chlor-Musc Schist	Light Brown	Sand	70	Good
MS1129	M. Sweeney	615850	7066300		Dark Brown	Sand	50	Good
MS1130	M. Sweeney	615800	7066300	Qtz, Chlor-Musc Schist	Light Brown	Sand	60	Good
MS1131	M. Sweeney	615750	7066300		Light Brown	Sand	70	Excellent
MS1132	M. Sweeney	615700	7066300	Schist	Light Brown	Sand	110	Excellent
MS1133	M. Sweeney	615650	7066300	Rich in Sulphides, muscovite	Red	Gravel	50	Good
MS1134	M. Sweeney	615600	7066300	Rich in Sulphides, muscovite	Black	Gravel	20	Poor
MS1135	M. Sweeney	615550	7066300	Rich in Sulphides, muscovite	Brown	Sand	50	Good
MS1136	M. Sweeney	615500	7066300	High Muscovite	Brown	Sand	50	Good
MS1137	M. Sweeney	615450	7066300		Brown	Sand	50	Good
MS1138	M. Sweeney	615400	7066300	No trees, Killzone? QTZ chips	Red Brown	Sand	120	Excellent
MS1139	M. Sweeney	615350	7066300	Juicy looking, Qtz chips	Red Brown	Clay	120	Excellent
MS1140	M. Sweeney	615300	7066300	Juicy looking, Qtz chips	Red Brown	Sand	120	Excellent
MS1141	M. Sweeney	615250	7066300	Juicy looking, Qtz chips	Brown	Sand	120	Excellent
MS1142	M. Sweeney	615200	7066300	very high Muscovite content	Brown	Sand	70	Good
MS1143	M. Sweeney	615150	7066300	very high Muscovite content	Brown	Gravel	50	Good
MS1144	M. Sweeney	615100	7066300	very high Muscovite content	Brown	Gravel	90	Excellent

Sample ID	Sampler	UTM East	UTM North	Notes	Colour	Texture	Depth (cm)	Quality
MS1145	M. Sweeney	615050	7066300	very high Muscovite content	Brown	Gravel	70	Good
MS1146	M. Sweeney	615000	7066300	very high Muscovite content	Light Brown	Clay	100	Excellent
MS1147	M. Sweeney	614950	7066300	Saturated Clay	grey	Clay	80	Good
MS1148	M. Sweeney	614900	7066300	Saturated Clay	grey	Clay	70	Good
MS1149	M. Sweeney	614850	7066300	Saturated Clay	grey	Clay	90	Good
MS1150	M. Sweeney	614800	7066300	Saturated Clay	grey	Clay	60	Good

GOLD RUN PROJECT SAMPLE LOCATIONS & DESCRIPTIONS - ROCK

1719833	WDM	613776	7069619	White QV boulder in road bed (mostly organics & soil), 1mm black tourmaline veinlet cuts QV (similar to Kentucky Lode)
1719834	WDM	615381	7066611	boulder white to grey QV w/ limonitic inclusions, minor earthy hematite, MnOx, minor schist domains
1719835	WDM	615381	7066611	grab 25 pebbles of rusty schist from 50cm deep pit at site of 2006 soil sample 387630 which returned 128ppb Au (same area as sample 1719834 above) - elevate Zn, Cu, Fe, Mn, Ni, Co, Ba by XRF
1719836	WDM	615317	7066387	grab 25 pebbles of rusty QMS w/ cubic pyrite pseudomorphs - 10m from 2005 soil 302869 (69 ppb Au) - on dozer trail
1719837	WDM	615317	7066387	grab 20 pebbles white QV float (same area as sample above) - inc. 1cm discordant vein cutting rusty schist, plus some foliaform QV - on dozer trail