

# Assessment Report

Geochemical Sampling on the McConnells Jest Au Project, Mayo Mining District,  
Yukon Territory.

July 22<sup>nd</sup> – August 7<sup>th</sup> 2015

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April 24, 2016

## 1.0 Executive Summary

The McConnells Jest property, located in the central Yukon, lies 65 km northeast of Mayo, Y.T. Access to the property is limited to a 25 minute helicopter trip from the Mayo airstrip. The Hansen-McQuesten Lake road, which lies east of the property provides foot and skidoo access.

The McConnells Jest Property consists of 172 contiguous (quartz) claims, owned 100% by Bill Koe-Carson, and covers an area of approximately 3,371 hectares.

The property itself has seen limited exploration activity. The property was first staked by United Keno Hill Mines in the 1960's, termed the "Zed" (Z) claims (minfile#: 106D055). The property was subsequently staked in 2010 by Bill Koe-Carson. Golden Predator Canada Corp. oversaw soil and rock sampling programs in 2011, 2012 and 2014.

Mapping took place in 1961 (Green, 1972) by L. Green and the Geological Survey of Canada (GSC) as part of a helicopter-supported party known as the Operation Ogilvie (Minfile# 106D055). Directly south of the property, local topographic map sheet 105M was remapped by Roots (1997) of the GSC, and in 2003 the GSC released a geological compilation that included this area (Golden Predator Canada Corp., 2013).

The property underwent glaciation during the McConnell glaciation (>23,000 years ago; Bond, 1999). It has been demonstrated through a number of field seasons that the ground is covered by basal till. The lack of a distinct soil anomaly is attributed to the presence of loess deposits on the property.

The McConnell pluton is one of a series of Cretaceous plutons that have been included in the Tintina Gold Province. The Tintina Gold Province (e.g. Hart, 2004) is a belt of Au-deposits in the Northern Cordillera of Yukon and Alaska that are bounded by two dextral transpressional fault systems - the Denali Fault (southern limit) and the Tintina Fault (northern limit). The belt extends beyond the northern tip of the Tintina Fault, into the Selwyn Basin in the Yukon, and into the western-most NWT. Within the Tintina Gold Province a series of highly prospective Intrusion-Related Gold (IRGS) deposits form the Tombstone Gold Belt, the most significant host to IRGS globally.

Paleozoic clastic rocks of the upper Devonian and Mississippian Earn Group underlie the majority of the McConnell property. These metasedimentary sequences were formed in a submarine fan and channel

deposit setting and subsequently deformed during Cordilleran tectonics. The 7 x 2.5 km McConnell pluton intrudes the Earn Group. The pluton is a mid-Cretaceous Tombstone suite granodiorite intrusion which occupies a large portion of the property.

Two major mineral properties lie adjacent to McConnells Jest, the Dublin Gulch IRGS deposit to the west and the Keno Hill silver district to the south east. Many similarities exist between McConnells Jest and Dublin Gulch (6.3 M oz indicated and inferred, Wardrop Engineering Inc., 2011) and so the IRGS model has been adopted to describe mineralisation.

From July 22nd – August 7th 2015 Mr. Bill Koe-Caron of Blue Mountain Minerals Inc. conducted prospecting and sampling of aligned quartz veins and cross-cutting arsenopyrite/scorodite veins. The prospecting focussed on an area in the centre to the northern edge of the pluton on the western portion of the Property. A total of seven samples were extracted from the site for analysis by Bureau Veritas Mineral Limited in Whitehorse, Yukon. A minimum of CAD\$17,807.31 was filed as assessment work in January, 2016.

Recommendations to explore for an intrusion-related gold system are outlined, including bedrock mapping, sheeted quartz- and arsenopyrite/scorodite- vein prospecting and mineralogical studies. Additionally, it is recommended that exploration for a W-skarn on the margins of the McConnell pluton, should also be considered. Environmental studies should also be conducted to establish baselines as a reference for future monitoring. It is proposed that a team of geologists and field technicians could conduct the proposed work in a single field season.

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## **2.0 Introduction**

The McConnells Jest property is located in the central Yukon and lies 65 km northeast of Mayo, Y.T. A mid-Cretaceous pluton is the main exploration target for Au and Ag, with a secondary focus on delineating potential W-skarns in the contact zones around the McConnells Jest pluton.

From July 22nd – August 7th 2015 Mr. Bill Koe-Caron of Blue Mountain Minerals Inc. conducted prospecting and sampling of aligned quartz veins and cross-cutting arsenopyrite/scorodite veins. The prospecting focussed on an area in the centre to the northern edge of the pluton on the western portion of the pluton, with a view to identifying areas of outcrop exposure and zones of high concentrations of quartz and arsenopyrite/scorodite veins. A small area on the north-eastern edge of the pluton was also prospected and serves as the only location where W-skarn development would be expected. Due to lack of outcrop exposure, no samples targeting a W-skarn were extracted. A total of seven samples were extracted from the site for analysis for Au-content using atomic absorption spectroscopy (AAS) and a further 36 elements using inductively coupled plasma mass spectrometry (ICP-MS). A single sample (15606) returned a Au value of over 10 g/t using AAS and was re-analysed using gravimetric analysis. All analyses were performed by Bureau Veritas Minerals Limited in Whitehorse, Yukon.

The claims are 100% held by Bill Koe-Carson of Blue Mountain Minerals Inc. in White Fox, Saskatchewan. A minimum of CAD\$17,807.31 was filed as assessment work in January, 2016. This report is prepared to satisfy assessment requirements of the Yukon Mining Recorder (Mayo Mining District).

### **2.1 Sources of Information**

The report of Randell et al., (2015), the first detailed geologic report for the property, as part of the Strata GeoData Services: Hive initiative forms the basis for many sections of this report. Their report, and references therein, should be referred to for more detail.

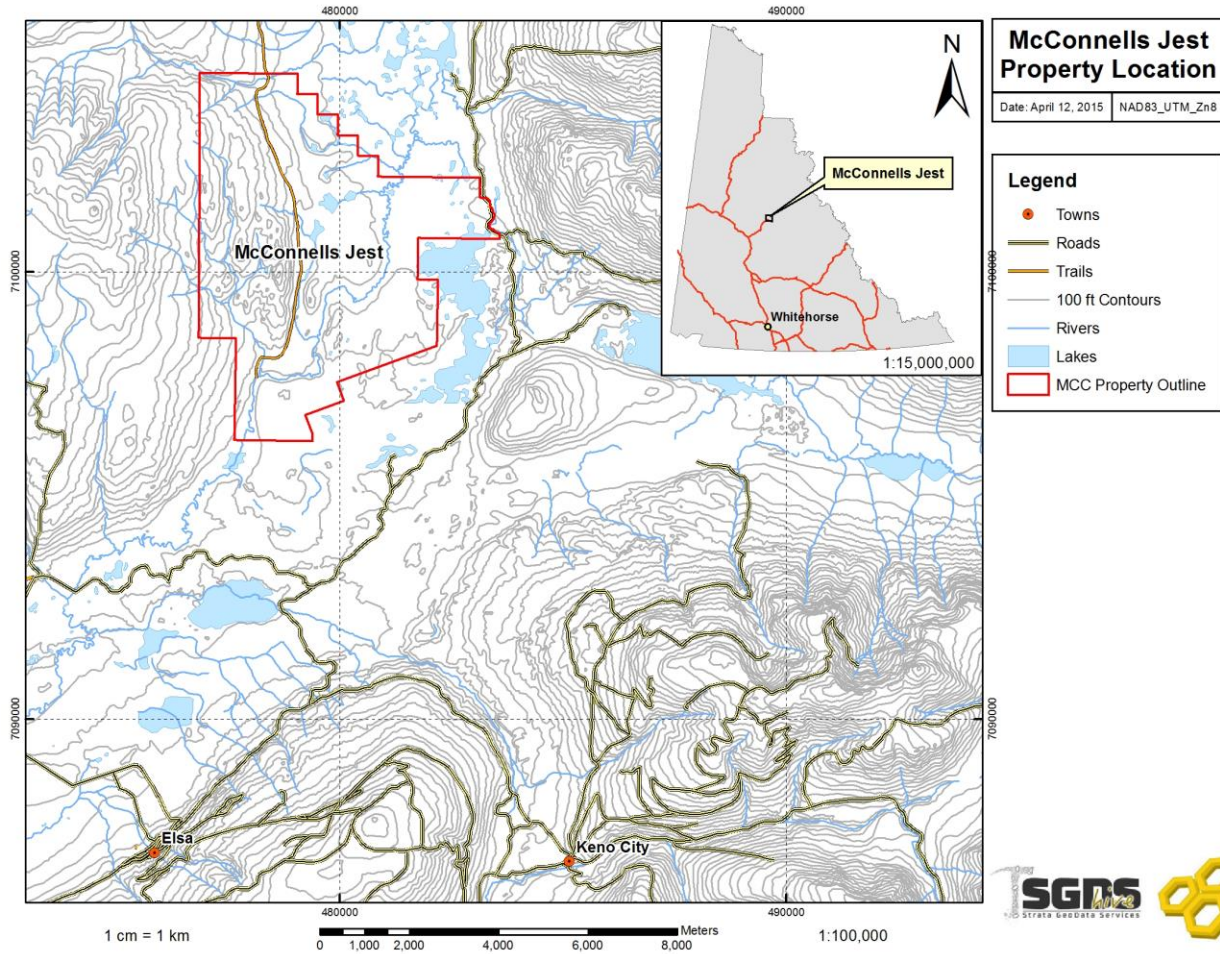
## **3.0 Property Location and Claim Information**

The property is located in the central Yukon and lies 65 km northeast of Mayo, Y.T. on map sheet 106D03 and 105M14 at 479500m E and 7100000m N in NAD83 Zone 8 (Fig 3.1). The McConnell Property consists of 172 contiguous (quartz) claims and covers an area of approximately 3,371 hectares

(Table 3.1, Fig 3.1). The claims were all staked under terms of the Yukon Quartz Mining Act and are registered with the Mayo Mining Recorder by Mr. Bill Koe-Carson.

**Table 3.1.** Claim information for the McConnells Jest property.

Claim Name	Number(s)	Grant Number	Registered Owner
McConnells Jest	1 to 40	YD16701 to YD16740	Bill Koe-Carson - 100%
McConnells Jest	41 to 52	YD54701 to YD54712	Bill Koe-Carson - 100%
McConnells Jest	53 to 56	YD54713 to YD54716	Bill Koe-Carson - 100%
McConnells Jest	57 to 120	YD54717 to YD54780	Bill Koe-Carson - 100%
McConnells Jest	121 to 125	YD61470 to YD61474	Bill Koe-Carson - 100%
McConnells Jest	126 - 172	YD126853 - YD126899	Bill Koe-Carson - 100%



**Figure 3.1.** Map showing the boundary of the McConnells Jest claim block. Inset shows position within the Yukon Territory.

## **4.0 Accessibility, Climate, Local Resources, Infrastructure and Physiography**

### **4.1 Accessibility**

The closest sizeable town is Mayo, located on the Stewart River, approximately 65 km to the southwest. Mayo is accessible from Whitehorse via a 460 km all-weather road and is also serviced by the Mayo airport, which is located just to the north of Mayo. Access to the property is limited to a 25 minute helicopter trip from the Mayo airstrip. The Hansen-McQuesten Lake road, which lies east of the property provides foot and skidoo access.

### **4.2 Climate**

The central Yukon is characterized by a subarctic continental climate with cold winters and warm summers. The mean annual temperature for the area is approximately -3°C, with an annual range of 63.5°C. January is the coldest month, July the warmest. Average temperatures in the winter are between -15 and -20 degrees Celsius (°C) but can reach -60°C. The summers are moderately warm with average temperatures in July around 15°C. Annual precipitation ranges from 375 to 600 mm, about half of which falls as snow, which starts to accumulate in October and remains into May or June. Because of its northern latitude, winter days are short with the sun low on the horizon such that north-facing slopes can experience ten weeks without direct sunlight around the winter solstice. Conversely, summer days are very long, especially in early summer around the summer solstice. Exploration and mining work can be carried out year-round.

### **4.3 Local Resources and Infrastructure**

In terms of manpower, rental equipment, materials, and supplies are very limited. A broader range of services is available in Whitehorse, Yukon, located about six hours by road to the south of the property. Whitehorse has a population of 22,815 (National Household Survey, 2011) and has regularly scheduled air service to Vancouver, Edmonton, Calgary, and Fairbanks. Electrical transmission lines from a hydroelectric facility near Mayo extend to the villages of Elsa and Keno City, about 20 km south of the property.



Mayo has a population of approximately 450 and offers accommodation, fuel, a nursing station, and earth-moving contractors. The Government of Yukon maintains a 1,400 m gravel airstrip, suitable for charter flights, about 3 km north of Mayo. There are no scheduled air services to Mayo.

#### **4.4 Physiography**

The property is situated just southwest of the Davidson Range and McQuesten Lake. Topographically, the property lies in the bottom of the McQuesten Valley and is characterized by rolling hills and plateaus; elevation ranges from 640 m to 920 m above sea level. Relief on the property is moderately steep due to creek incising and hills that rise rapidly over lithology changes (Golden Predator Canada Corp., 2011). The property underwent glaciation during the McConnell glaciation (>23,000 years ago; Bond, 1999), and it has been demonstrated through a number of field seasons that the ground is covered by basal till (Golden Predator Canada Corp., 2013). Outcrops are rare, generally less than two percent of the surface area, and are limited to ridge tops and creek walls. Vegetation on the property consists of stunted spruce on north facing slopes and narrow valley floors, as well as slope alder. South facing slopes contain both coniferous trees and areas of deciduous aspen, poplar and birch. Patchy permafrost occurs on north-facing slopes (Golden Predator Canada Corp., 2011). It should be noted that an estimated 50% of the area has been burned in previous forest fires.

#### **5.0 History**

There are no historical quartz claims recorded in the immediate vicinity of the property. However, based on the Minfile occurrence report for “Zed” (106D 055), United Keno Hill Mines had some ground over the current McConnells Jest claims. Throughout the 1960s and 1970s, United Keno Hill Mines carried out grid soil sampling and prospecting on its claim groups including over the Zed occurrence. No significant mineralization was recorded, and no assessment report was filed.

The area was regionally mapped (1:250,000) by L. Green (1972) of the GSC, and by C. Roots (1997) of the GSC, who remapped topographic map sheet 105 M located to the immediate south. In 2003, Gordey and Makepeace of the GSC released a geological compilation which included the area (MinFile#: 106D 055, 2008).

The ground remained unclaimed until Bill Koe-Carson staked the ground in 2010.

## 6.0 Geology

### 6.1 Regional Geology

The McConnell pluton is one of a series of Cretaceous plutons that have been included in the Tintina Gold Province (see Fig. 6.1). The Tintina Gold Province (e.g. Hart, 2004) is a belt of Au-deposits in the Northern Cordillera of Yukon and Alaska that are bounded by two dextral transpressional fault systems - the Denali Fault (southern limit) and the Tintina Fault (northern limit). The belt extends beyond the northern tip of the Tintina Fault, into the Selwyn Basin in the Yukon, and into the western-most NWT. Within the Tintina Gold Province a series of highly prospective Intrusion-Related Gold (IRGS) deposits (Pink belt in Fig. 6.1) form the Tombstone Gold Belt, the most significant host to IRGS globally.

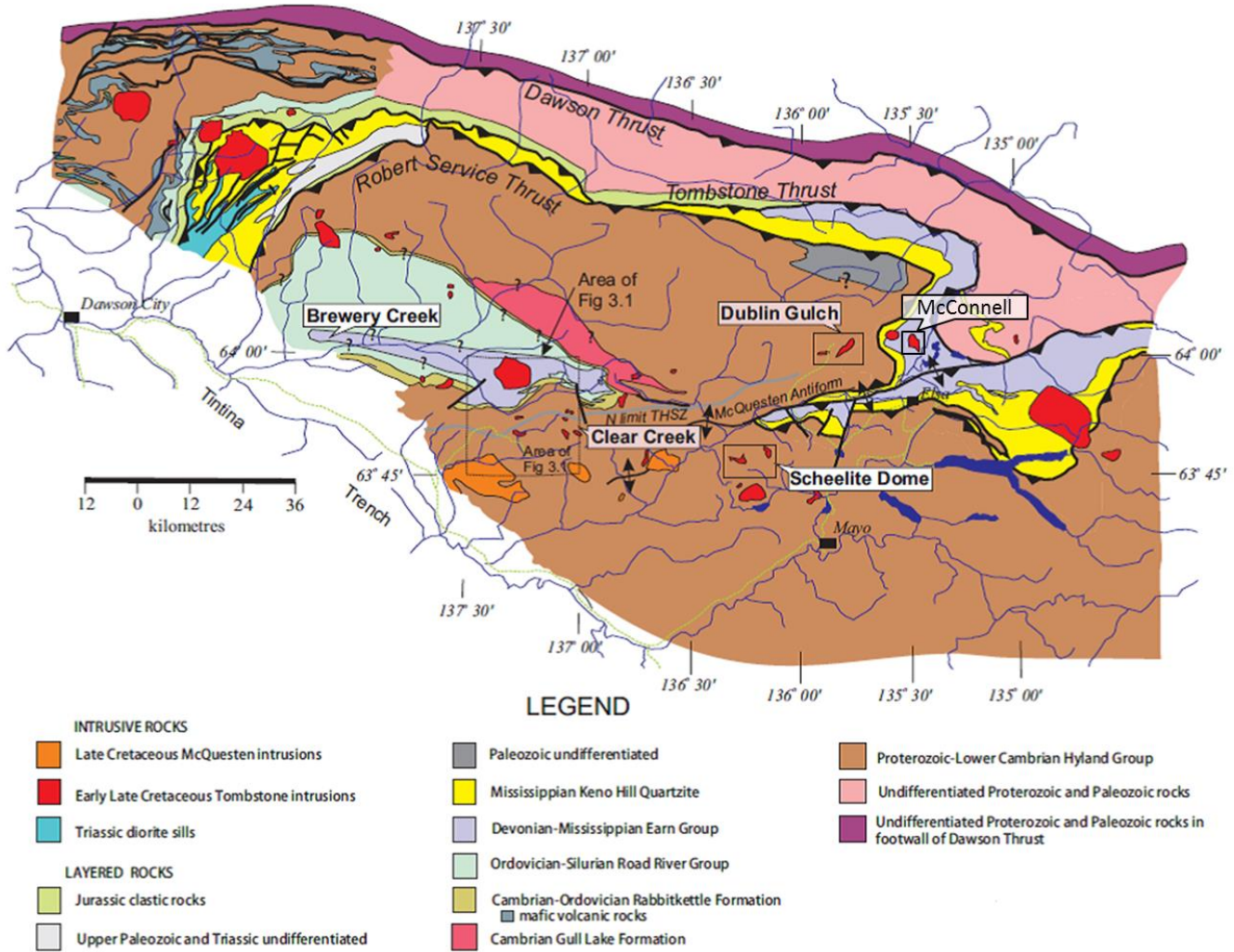


**Figure 6.1.** Map of the Tintina Gold Province for the Yukon Territory and Alaska. Mineral deposits are shown as large circles, mineral occurrences are shown as small circles. Gold deposits in red dots could be considered under the same genetic model as McConnells Jst. Deposits marked in black dots are not of the same origin, or are ambiguous in origin. Deposits marked in purple are skarn deposits (predominantly W-bearing). Within the TGP is the Tombstone Gold Belt (TGB; marked in pink) which is the major host to gold deposits in the Yukon and Alaska. Mair et al. (2006) suggested ~450 km of post-formation offset along the Tintina Fault, causing displacement of the Fairbanks district. Population centres marked are Whitehorse (W), Mayo (Mayo), Dawson (D) and Fairbanks (F). After Hart (2007).

The property lies on the north central margin of the Selwyn Basin tectonic province. The Selwyn Basin, a passive margin sequence, was deposited on the north-western margin of North America during the late Precambrian through Middle Jurassic (Abbott et al. 1986; Gordey and Anderson, 1993). The McConnell property is underlain by metasedimentary rocks of the Earn Group of the Selwyn Basin (see Fig. 6.2). The Earn Group consists of a series of metasedimentary and meta-volcanic rocks originally deposited during the Devonian to Mississippian. Metasedimentary rocks are commonly grey to black shales, metamorphosed to phyllite, with subordinate chert, siltstone, sandstone, limestone, bedded barite, baritic limestone, and chert-pebble conglomerate. A chlorite-muscovite phyllite unit is proposed to be a metamorphosed felsic volcanic rock (Murphy, 1997). The depositional environment of the Earn Group was a deep marine basin disrupted by faults to cause periods of coarser clastic influx (Abbott et al. 1986).

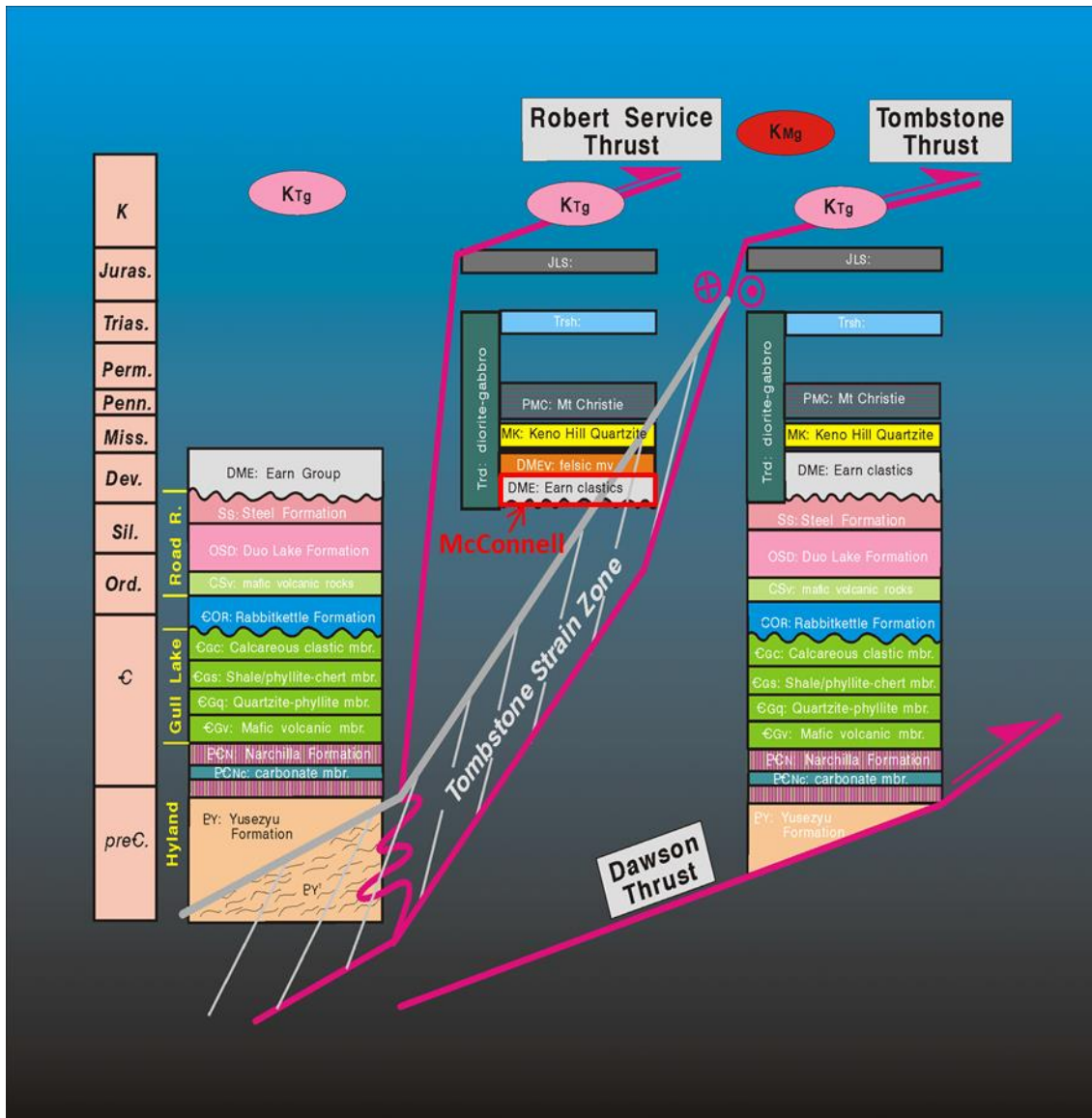
Deformation within the Selwyn Basin is associated with the Cordilleran Orogeny. Metamorphism is typically of lower greenschist facies. The formation of a series of folds and three thrust sheets initiated in the Jurassic as the localized effects of Cordilleran convergence began (Mair et al. 2006). The Dawson Thrust, the Tombstone Thrust, and the Robert Service Thrusts disrupt the stratigraphy of the basin (see Fig. 6.3) and may have formed structural conduits for magma during ascent through the crust.

The Tombstone Gold Belt has been divided into a number of suites based on the age, location, morphology and geochemical properties of plutons. In the north-central Selwyn Basin these are the Tombstone Suite (94 Ma – 89 Ma), the Mayo Suite (96 Ma – 93 Ma), and the Tungsten Suite (98 Ma – 94 Ma) (Rasmussen, 2013). Although no date exists for the McConnell pluton, its proximity to Dublin Gulch and the Roop Lakes Stock (94.0 Ma and 92.8 Ma; Selby et al. 2003; Roots, 1997) suggests an age of c. 93 Ma and a classification within the Mayo Suite. The Mayo Suite is characterized by 1-5 km<sup>2</sup> (east)/ 20-80 km<sup>2</sup> (west), single phase to weakly composite plutons, which are alkalic-calcic to calcic and chiefly composed of quartz monzonite, trending east-west along the northern margin of the Selwyn Basin (Hart et al. 2004).



**Figure 6.2.** Regional geology of the north western Selwyn Basin showing distribution of plutons, stratigraphic units and structural features. The McConnell pluton is hosted by the Devonian-Mississippian Earn Group. Modified after Scott Wilson Mining (2010).

Metamorphic cooling ages ( $^{40}\text{Ar}-^{39}\text{Ar}$ ; Mair et al. 2006) indicate that plutonism in the area took place around 10 Ma after the cessation of Cordilleran collisional tectonics. Plutonism took place around 500 km inboard from the active subduction of the Farallon plate beneath North America, indicating that Andean-style subduction related plutonism is not the source of melting. Melting for plutonism took place in the sub continental lithospheric mantle due to mantle upwelling (and associated heat flow) after delamination (Mair et al. 2011).



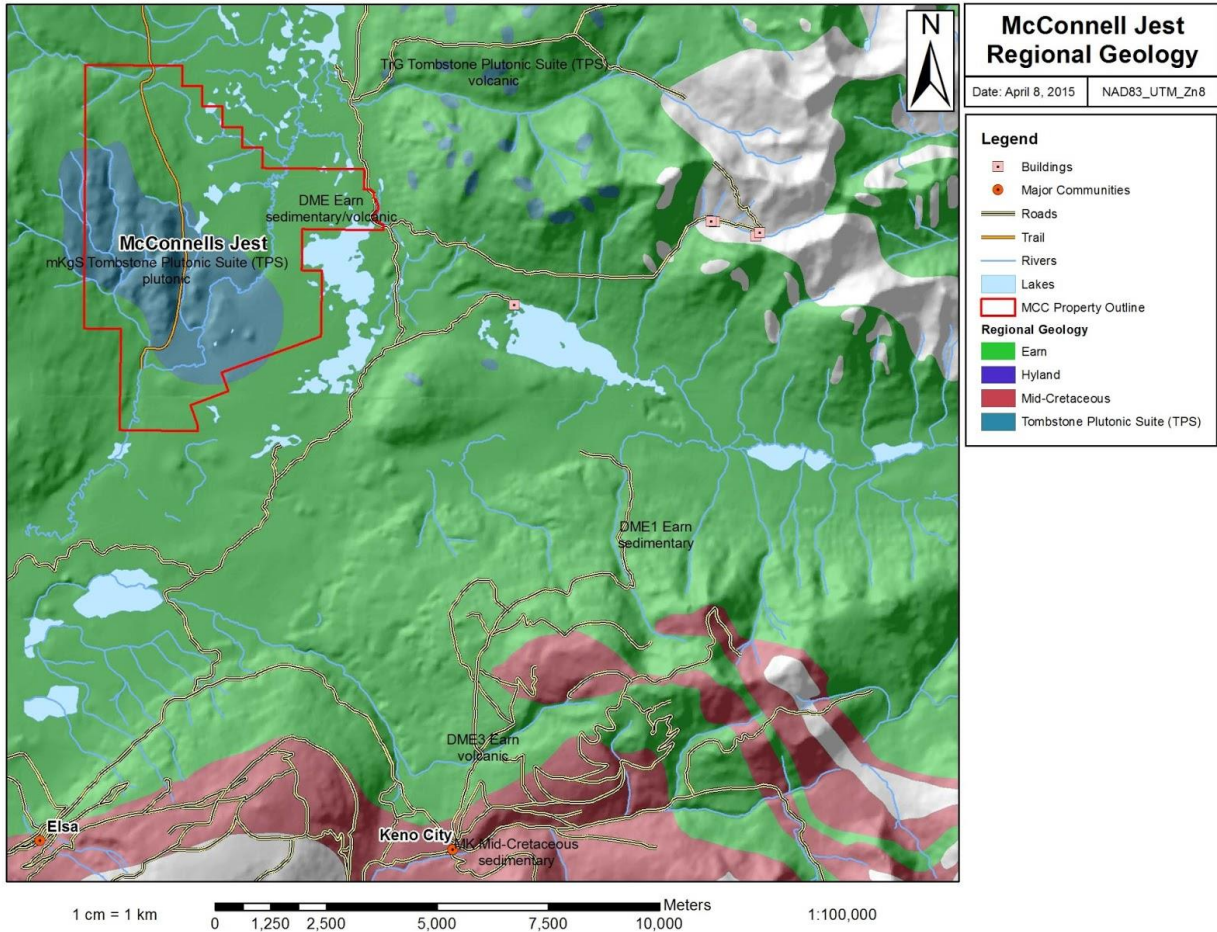
**Figure 6.3.** Stratigraphy of the Selwyn Basin and thrust stacking, modified from Murphy (1997). The McConnell pluton was intruded outside of- but proximal (<10 km) to- the Tombstone Strain Zone.

## 6.2 Property Geology

The property underwent glaciation during the McConnell glaciation (>23,000 years ago; Bond, 1999). It has been demonstrated through a number of field seasons that the ground is covered by basal till. Sampling of the property has been carefully completed, where possible, at sufficient depths (i.e. > 0.50 m) to avoid sampling possible shallow loess deposits. Generally, samples were collected at shallower depths (i.e. <0.3 m) in subalpine terrain with limited overburden or in boulder fields, as this was sufficient to avoid sampling glacial material (Golden Predator Canada Corp., 2013).

Paleozoic clastic rocks of the upper Devonian and Mississippian Earn Group underlie the majority of the McConnell property (Fig. 6.4). These metasedimentary sequences were formed in a submarine fan and channel deposit setting and subsequently deformed during Cordilleran tectonics. Rock types in the Earn Group are predominantly siliceous shales and cherts with interbeds of arenites and wackes, chert pebble conglomerates, siltstones and barite with rare limestone (Murphy, 1997). A quartz mica schist is the most commonly mapped expression of the Earn Group on the property to date (Koe-Carson, 2010).

The 7 x 2.5 km McConnell pluton intrudes the Earn Group. The pluton is a mid-Cretaceous Tombstone suite granodiorite intrusion which occupies a large portion of the property. The pluton trends ~120 degrees along its long axis. Due to the little amount of historic exploration and drilling, very little is known about contacts, structures and for the most part mineralization.



**Figure 6.4.** Regional Geology of the McConnell's Jest area. A mid-Cretaceous pluton intrudes metasedimentary horizons of the Earn Group.

## 7.0 Deposit Setting

Though the property is underexplored, an initial classification within the intrusion-related gold system (IRGS) deposit model is suggested. Hart (2005) provides the following seven points as a summary of defining points for Intrusion-Related Gold Systems:

1. Metaluminous, sub-alkalic intrusion of intermediate to felsic composition, which are transitional between ilmenite and magnetite series.
2. Carbonic hydrothermal fluids responsible for mineralization;
3. A metal assemblage that variably combines gold with elevated Bi, W, As, Mo, Te, and/or Sb and low concentrations of base metals;

4. A low sulphide mineral content, mostly <5 vol%, with a reduced ore mineral assemblage that typically comprises arsenopyrite, pyrrhotite and pyrite and lacks magnetite or hematite;
5. Spatially-restricted, commonly weak hydrothermal alteration;
6. A tectonic setting well inboard of inferred or recognized convergent plate boundaries;
7. A location in magmatic provinces best or formerly known for tungsten and/or tin deposits.

McConnells Jest satisfies the regional geologic requirements of this model and early exploration work suggests that this model is the most appropriate. The proximity and similarity of McConnells Jest to the adjacent Dublin Gulch, 6.3 M oz Au (Wardrop Engineering Inc., 2011), which is a holotypic example of an IRGS, further strengthens the case for this classification. If further exploration clarifies the proposed IRGS classification then gold can be genetically related to the intrusion of the McConnell pluton. Further, the areas of higher potential on the property will be those portions of the pluton which are unroofed. Several examples of elevated tungsten exist in the sample set and suggest that exploration for a skarn deposit would be justified.

## **8.0 Mineralization**

A partially aligned stockwork of quartz veins, with potassic alteration selvages, has been identified in multiple locations. Additionally, arsenopyrite veins associated with higher gold grades, with more pervasive clay alteration selvages, are also present within the current sample set.

### **8.1 Statistics**

#### **8.1.1 Data Preparation**

Data was prepared for statistical analysis by replacing values below detection with a zero value. Given the small sample set, values above detection were reset to the value representing the upper detection limit for inclusion. Data transformations were performed on an element by element basis in order to normalise the distribution of values, in order to satisfy the requirement of normally distributed data for statistical techniques. Data were either normalised using a natural logarithm (“\_3” suffix in figures and tables) or a double natural logarithm (“\_4” suffix in figures and tables) transformation.



### 8.1.2 Correlations

A linear correlation was performed for 26 elements using the Pearson's Product Moment Correlation coefficient (Pearson, 1896). The Spearman's Rank Correlation Coefficient (Spearman, 1904), values are ranked and then a Pearson's correlation is performed on the ranked values. Ranking of the values can be useful for data which, even when transformed, is not entirely normally distributed. Results vary between -1 and 1; a value of 1 represents a perfect positive correlation and a value of -1 represents a perfect negative correlation. A full set of correlation results are available in tables 8.1 (Pearson) and 8.2 (Spearman).

Gold shows statistically significant ( $\geq 0.70$ ) correlations with Zn (0.98) using Pearson's method and, K (0.83) and Ti (0.70) using Spearman's method. The association of Au with Zn may be due to co-precipitation of Au and Sphalerite ((Zn,Fe)S) during late-stage Au-Ag-Pb-Zn veins. The correlation between Au and K may point to a strong association of gold within veins which have potassic (K-rich) alteration. The presence of hydrothermal rutile (TiO<sub>2</sub>) in association with gold and/or gold bearing minerals may be the cause for the correlation of Au with Ti. These associations should be confirmed with a mineralogical investigation of the property and should be considered as hypotheses only.

**Table 8.1.** Pearson's Correlation Coefficient for detected elemental concentrations at McConnells Jest. Points of higher correlation (>0.59) are colour coded. Blue = 0.60 to 0.69, Green = 0.70 to 0.79, Orange = 0.80 to 0.89, Red = >0.90.

	Au_3	Ag_3	Al_3	As_3	Ba_3	Bi_3	Ca_3	Cd_3	Co_4	Cu_3	Fe_3	K_3	Mg_3	Mn_3	Mo_3	Na_3	Ni_4	Pb_3	Sb_4	Sc_3	Sr_3	Ti_3	V_3	W_4	Zn_4		
Au_3	0.00																										
Ag_3	0.47	0.00																									
Al_3	-0.32	0.06	0.38																								
As_3	0.39	0.34	-0.21	0.00																							
Ba_3	-0.16	0.27	0.73	0.11	0.00																						
Bi_3	0.53	0.85	0.00	0.50	0.20	0.00																					
Ca_3	-0.11	0.00	0.21	-0.06	0.11	-0.10	0.00																				
Cd_3	0.14	0.21	0.14	0.20	0.33	0.41	0.22	0.00																			
Co_4	0.26	0.61	0.00	0.21	0.31	0.27	0.30	0.01	0.06	0.00	0.00	0.00	0.00	0.04	0.18	0.00	0.04	0.00	0.00	0.32	0.00	0.08	0.76	0.13	0.47	0.01	
Cu_3	-0.57	-0.37	0.50	-0.39	0.34	-0.17	-0.01	-0.16	0.08	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.84	
Cr_3	0.27	0.37	-0.01	0.54	0.13	0.55	-0.26	0.21	0.36	-0.24	0.00	0.21	0.00	0.04	0.10	0.20	0.01	0.72	0.00	0.63	0.45	0.09	0.11	0.33	0.40	0.00	
Cs_3	0.22	0.17	-0.02	0.46	0.11	0.31	-0.10	-0.08	0.40	-0.24	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.01	0.42	0.10	0.03	0.12	0.00	
Fe_3	-0.03	0.27	0.70	0.08	0.76	0.22	0.09	0.34	0.23	0.16	0.09	-0.03	0.85	0.76	0.51	0.00	0.34	0.83	0.73	0.00	0.00	0.00	0.19	0.38	0.61	0.14	
K_3	-0.14	-0.02	0.34	-0.32	0.10	-0.14	0.47	-0.08	0.15	0.19	-0.14	0.20	0.01	0.00	0.00	0.31	0.01	0.00	0.57	0.38	0.00	0.00	0.05	0.00	0.39	0.00	
Mg_3	-0.06	-0.07	0.06	0.13	0.10	-0.13	0.55	0.16	0.09	-0.22	0.12	0.37	-0.02	0.23	0.21	0.00	0.04	0.39	0.67	0.00	0.00	0.00	0.22	0.25	0.00	0.00	
Mn_3	-0.32	-0.12	0.13	-0.03	0.11	0.02	-0.09	-0.10	0.20	0.51	0.09	0.14	-0.05	0.07	-0.09	0.00	0.00	0.00	0.27	0.02	0.22	0.53	0.02	0.82	0.01	0.44	
Mo_3	-0.33	0.11	0.75	-0.27	0.59	0.06	0.22	0.17	0.14	0.63	-0.17	-0.24	0.55	0.30	-0.14	0.24	0.00	0.00	0.08	0.00	0.00	0.00	0.75	0.00	0.00	0.82	
Na_3	-0.15	-0.02	0.18	-0.12	0.14	-0.02	0.02	-0.02	0.32	0.29	0.03	0.13	-0.07	0.30	-0.06	0.22	0.20	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ni_4	0.28	0.23	-0.14	0.25	-0.05	0.48	-0.08	0.04	0.20	-0.20	0.33	0.45	0.02	-0.04	0.03	0.08	-0.13	0.04	0.00	0.00	0.72	0.96	0.05	0.00	0.01	0.17	
Pb_3	0.12	0.22	0.02	-0.13	0.01	0.19	-0.17	-0.05	0.07	0.17	-0.03	0.00	-0.02	0.06	-0.33	0.16	0.20	0.23	0.21	0.00	0.93	0.47	0.61	0.05	0.01	0.46	
Sb_4	-0.21	0.02	0.59	-0.27	0.40	0.08	0.22	0.33	0.22	0.33	-0.05	0.17	0.33	0.66	0.38	0.09	0.47	0.27	-0.09	-0.01	0.00	0.00	0.60	0.00	0.47	0.00	
Sc_3	-0.12	0.20	0.41	0.00	0.41	0.14	0.75	0.31	0.12	0.16	-0.12	0.06	0.31	0.45	0.28	0.04	0.50	0.08	0.00	-0.05	0.53	0.02	0.24	0.44	0.01	0.01	
Sr_3	0.07	0.24	0.00	0.20	0.07	0.18	-0.05	0.18	-0.02	-0.22	0.11	0.12	0.09	0.14	-0.09	-0.16	0.02	-0.14	-0.06	0.04	0.04	0.16	0.08	0.02	0.32	0.00	
Ti_3	-0.12	-0.06	0.43	-0.41	0.16	-0.21	-0.02	-0.17	0.11	0.23	-0.07	0.15	0.06	0.59	-0.08	0.02	0.22	0.38	-0.14	0.14	0.58	0.08	0.12	0.10	0.01	0.01	
V_3	-0.09	-0.02	0.15	-0.11	0.08	0.02	-0.04	0.03	0.05	0.31	-0.06	-0.11	0.04	0.06	-0.21	0.18	0.21	0.18	-0.03	0.19	0.05	-0.17	0.12	0.10	0.01	0.01	
W_4	0.00	0.09	0.19	0.01	0.21	0.17	0.12	0.13	0.18	0.01	0.28	0.40	0.10	0.25	0.34	0.05	0.02	0.10	0.49	-0.05	0.26	0.19	-0.07	0.18	-0.01	0.01	
Zn_4																											

**Table 8.2.** Spearman's Rank Correlation Coefficient for detected elemental concentrations at McConnells Jest. Points of higher correlation (>0.59) are colour coded. Blue = 0.60 to 0.69, Green = 0.70 to 0.79, Orange = 0.80 to 0.89, Red = >0.90.

	Au_3	Ag_3	Al_3	As_3	Ba_3	Bi_3	Ca_3	Cd_3	Co_4	Cr_3	Cu_3	Fe_3	K_3	Mg_3	Mn_3	Mo_3	Na_3	Ni_4	Pb_3	Sb_4	Sc_3	Sr_3	Ti_3	V_3	W_4	Zn_4		
Au_3																												
Ag_3	0.49																											
Al_3	-0.25	0.12																										
As_3	0.43	0.31	-0.20																									
Ba_3	-0.04	0.31	0.73	0.08																								
Bi_3	0.57	0.64	0.65	0.66	0.21																							
Ca_3	-0.10	0.00	0.21	-0.05	0.15	-0.08																						
Cd_3	0.33	0.62	0.13	0.22	0.30	0.47	0.18																					
Co_4	0.16	0.23	0.28	0.30	0.30	0.27	0.01	0.04																				
Cr_3	-0.56	-0.11	0.51	-0.41	0.28	-0.12	0.02	-0.13	0.06																			
Cu_3	0.30	0.33	0.02	0.55	0.11	0.50	-0.31	0.17	0.38	-0.22																		
Fe_3	0.17	0.09	0.10	0.41	0.15	0.20	-0.14	-0.11	0.40	-0.25	0.67																	
K_3	0.02	0.30	0.73	0.05	0.83	0.23	0.06	0.33	0.24	0.21	0.11	0.08																
Mg_3	-0.18	-0.03	0.38	-0.33	0.09	-0.18	0.43	-0.10	0.16	0.21	-0.14	0.22	0.05															
Mn_3	0.04	-0.10	0.05	0.21	0.18	-0.09	0.47	0.12	0.11	-0.28	0.10	0.34	0.05	0.15														
Mo_3	-0.33	-0.04	0.15	-0.09	0.00	0.01	-0.11	-0.17	0.18	0.54	0.08	0.08	-0.06	0.12	-0.23													
Na_3	-0.30	0.13	0.71	-0.34	0.55	0.05	0.24	0.11	0.13	0.57	-0.22	-0.21	0.53	0.24	-0.13	0.16												
Ni_4	-0.18	0.02	0.18	-0.11	0.10	-0.05	-0.02	-0.06	0.29	0.29	0.08	0.18	-0.05	0.26	-0.03	0.28	0.18											
Pb_3	0.17	0.05	-0.06	0.17	0.00	0.31	-0.08	-0.08	0.18	-0.22	0.30	0.43	0.00	0.00	0.07	0.00	-0.05	0.02	0.02	0.15	0.14	0.05	0.66	0.75	0.34	0.29	0.59	0.00
Sb_4	0.04	0.18	0.02	-0.19	0.00	0.10	-0.12	-0.09	0.04	0.30	-0.11	-0.08	-0.01	0.06	-0.31	0.20	0.17	0.15	0.15	0.14	0.05	0.58	0.57	0.83	0.25	0.00	0.60	0.68
Sc_3	-0.25	0.04	0.61	-0.32	0.37	-0.07	0.42	0.03	0.20	0.42	0.12	0.15	0.34	0.68	0.28	0.15	0.55	0.28	-0.09	0.04	0.04	0.00	0.00	0.28	0.00	0.11	0.00	0.00
Sr_3	-0.06	0.23	0.41	0.00	0.38	0.18	0.29	0.09	0.16	-0.13	0.03	0.31	0.44	0.44	0.19	0.00	0.46	0.05	0.02	-0.04	0.53	0.00	0.00	0.00	0.21	0.00	0.61	0.03
Ti_3	0.03	0.20	0.04	0.12	0.04	0.11	0.06	-0.03	-0.14	0.06	0.10	0.10	0.10	0.18	-0.16	-0.14	0.06	-0.08	-0.07	0.01	0.08	0.21	0.00	0.00	0.05	0.09	0.68	0.02
V_3	-0.11	-0.06	0.41	-0.42	0.12	-0.23	0.00	-0.15	0.09	0.20	-0.10	0.17	0.13	0.57	-0.10	0.24	0.29	0.29	-0.07	0.08	0.53	0.09	0.14	0.00	0.14	0.02	0.14	0.02
W_4	-0.17	0.01	0.11	-0.21	-0.08	-0.01	-0.09	-0.05	0.04	0.36	-0.03	-0.09	-0.09	-0.09	0.11	-0.21	0.28	0.13	0.15	-0.04	0.24	0.11	-0.04	-0.12	0.10	0.14	0.65	0.05
Zn_4	-0.06	-0.01	0.25	-0.03	0.21	0.08	0.07	0.04	0.16	0.04	0.26	0.38	0.12	0.25	0.29	0.05	0.05	0.05	0.52	-0.04	0.28	0.15	-0.03	0.16	0.03	0.16	0.65	0.03

## 8.2 Principal Component Analysis (PCA)

The suite of elements from assay data was split into two sets, 1) an “alteration” set (Al, Ba, Ca, Cr, K, Mg, Mn, Na, Sc, Sr, Ti, V), and 2) an “ore mineralization” set (Au, Ag, As, Bi, Cd, Co, Cu, Fe, Mo, Ni, Pb, Sb, W, Zn) in order to most clearly portray these complementary aspects of the sample lithologies. Data used in the PCA was selected and transformed using the same criteria as for the element vs element correlations. The PAST software of Hammer et al. (2001) was used to carry out the PCA. These associations should be confirmed with a mineralogical investigation of the property and should be considered as hypotheses only.

Alteration Set (Fig 8.1): Three distinct grouping of elements are present:

- 1) Ti: Ti shows a large divergence from the rest of the elements within the alteration grouping. This may point to, as stated above, a hydrothermal rutile ( $\text{TiO}_2$ ) phase.
- 2) Magmatic (Al, Ba, Ca, K, Mg, Mn, Na, Sc, Sr, V): The close grouping of these elements is most likely explained by their dominant residence within the host rocks to mineralisation.
- 3) Cr: The proximity to the other magmatic elements may point to the residence of Cr within intermediate dykes mapped on the property.

There is no clear pattern of association of any of these elements with high grade gold values in Fig 8.1.

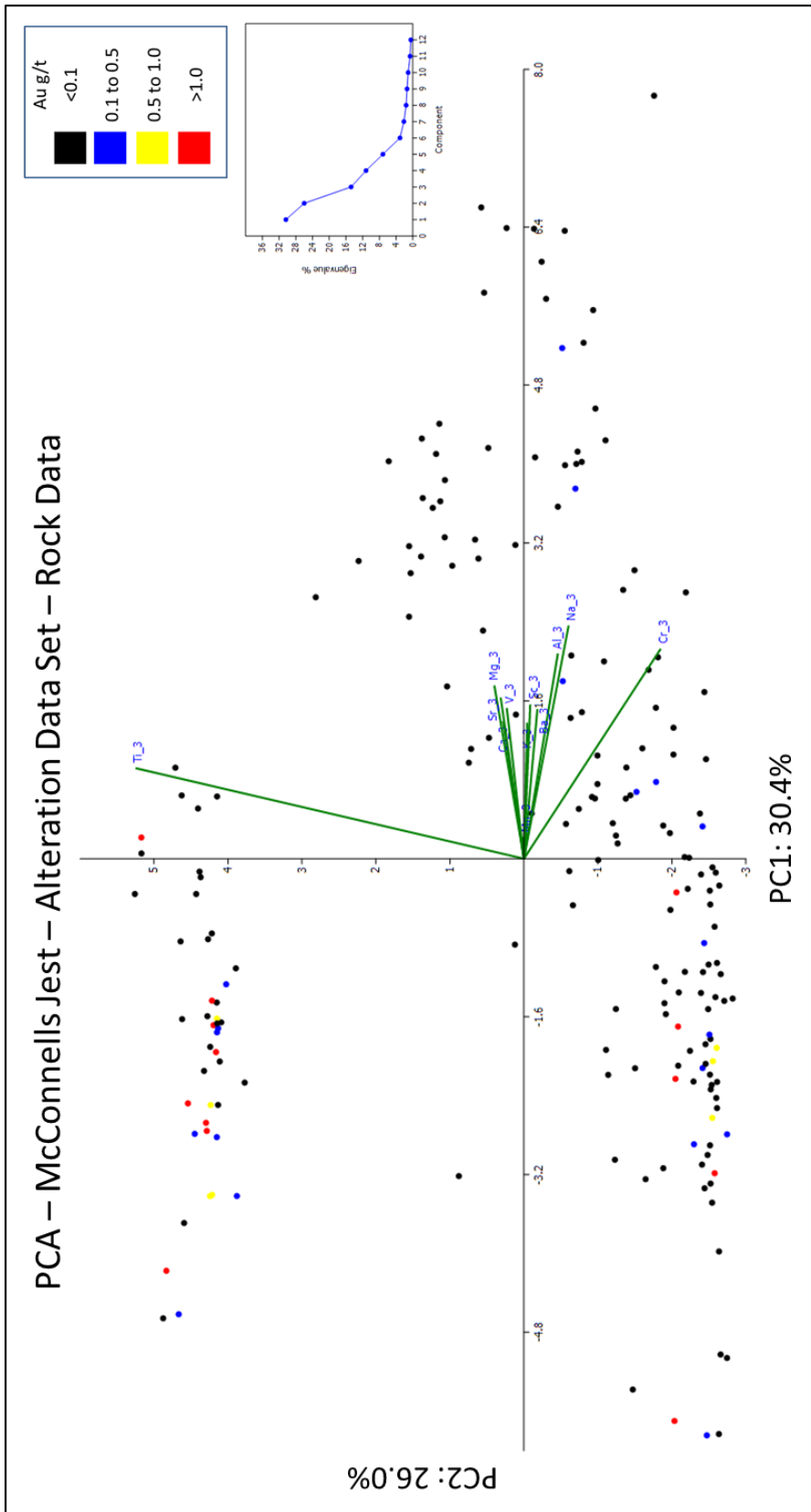


Figure 8.1. PCA Scatter plot for the alteration set of elements at McConnells Jest.

Ore Mineralisation Set (Fig 8.2): Five distinct groupings of elements are present:

- 1) W, Ni, Sb: A number of Ni-Sb minerals could be the result of this association. Minor volumes of scheelite ( $\text{CaWO}_4$ ) are common in quartz veins in IRGS and are the most probably residence of W in this group.
- 2) Mo, Pb, Zn: The grouping of these elements may point to a mineralisation stage with molybdenite ( $\text{MoS}_2$ ), galena ( $\text{PbS}$ ) and sphalerite ( $(\text{Zn,Fe})\text{S}$ ).
- 3) Fe, Bi, Cu, Ag: The sulfosalt mineral tetrahedrite ( $(\text{Ag,Cu,Fe})_{12}\text{Sb}_4\text{S}_{13}$ ) and bismuth minerals may be the dominant residence of these minerals. It should be noted that Sb, an important component of tetrahedrite, is not associated with this group.
- 4) Cd, Au: Cd can occur as an impurity in sphalerite. Given the linear correlation of Au with Zn, the association of native gold with sphalerite is suggested here.
- 5) As: Arsenopyrite ( $\text{FeAsS}$ ) veins are common on the property. Although these generally return elevated Au assay grades, the trajectory of the As component is not towards high Au values. This may indicate that arsenopyrite is a host to gold but is not genetically related to the same fluid which precipitated gold.

Groups 3 and 4 trend towards high grade gold values (red dots) on Fig. 8.2, suggesting that these may be either i) two discrete Au mineralising events or ii) sub-stages of a broader, single Au mineralisation event. An investigation into the hydrothermal paragenesis at McConnells Jest is required to test the above hypotheses.

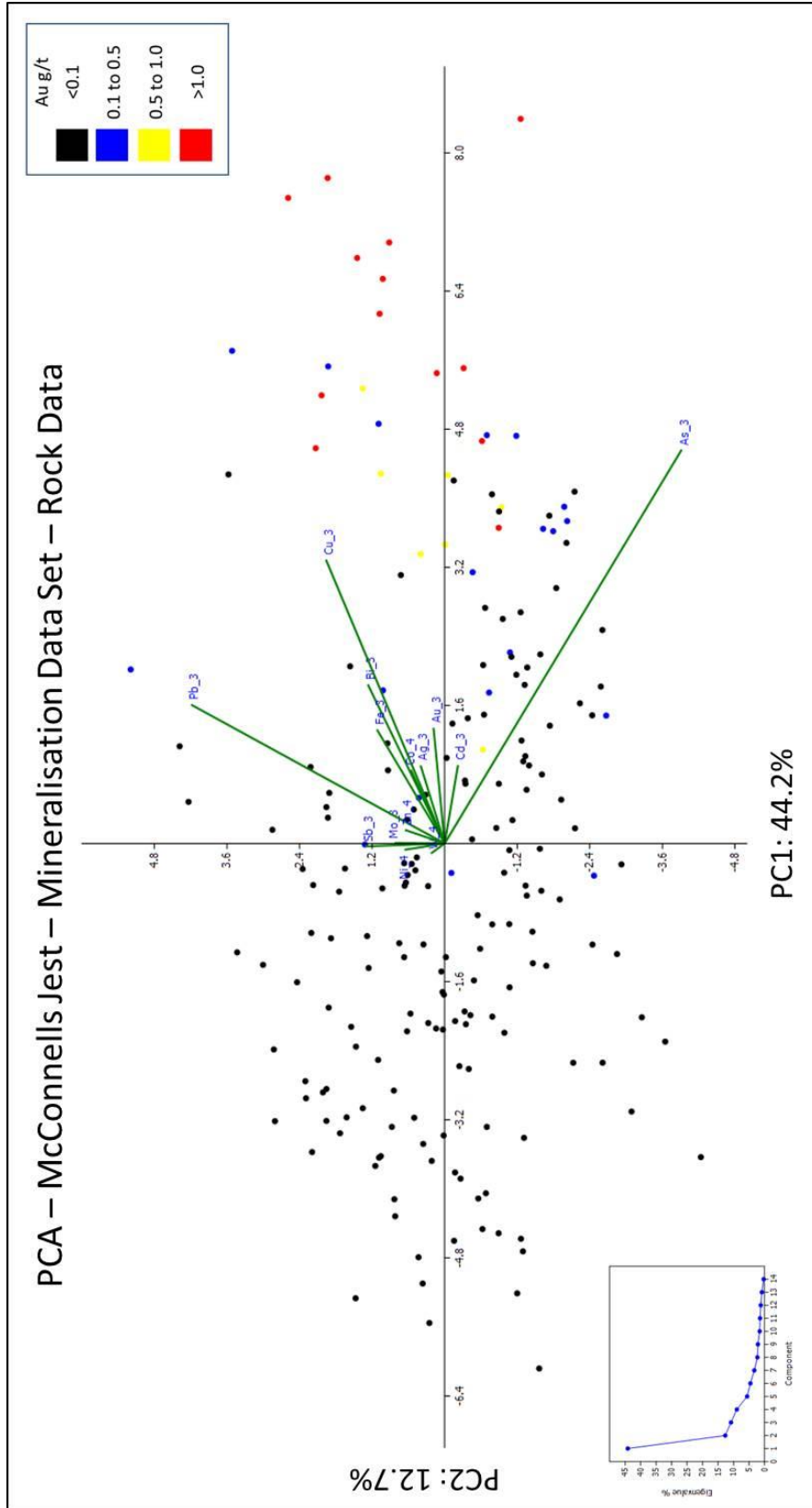


Figure 8.2. PCA Scatter plot for the mineralisation set of elements at McConnells Jest.

## **9.0 Exploration**

### **9.1 Historical Exploration**

In 2010 and with the assistance of a YMIP grant, Bill Koe Carson staked the property and collected 12 stream samples, 44 soil samples and 28 rock samples (Bourne, 2011). Stream sample MJSED-004 returned 11.7 ppm Au, MJSED-006 returned 0.558 ppm Au and MJSED-009 returned 0.305 ppm Au. Of the 28 rock samples, two had weakly anomalous gold assays in the 0.1 to 0.2 ppm range, however several samples contained anomalous pathfinder elements, for example 3722 ppm arsenic and 98 ppm bismuth in sample MJR-24.

In 2011, Golden Predator optioned the ground and contracted All-In Exploration Inc. (Whitehorse, Yukon) to complete the collection of 380 soil samples from a grid covering the western section of the property. Samples were collected every 50m along east-west oriented lines 200m apart, to a total of 19.6km.

The results from this survey outlined several multi-element geochemical anomalies, with sporadic highs (up to 208 ppb Au) and a cluster of elevated values (10 to 17 ppb Au) in the northeast quadrant. This anomaly is around 400m in length and lie within 500m of the anomalous stream sediments collected in 2010. This anomaly is associated with elevated levels of copper and arsenic.

In the southwest part of the grid, there is a strong cluster of arsenic anomalies that are associated with the highest gold result (208 ppb). There were also elevated levels of silver and bismuth in the same quadrant.

Work continued in 2012 with a short field program undertaken again by Golden Predator.

A total of 74 rock samples were taken over the 3 day program on the McConnell claims. The program was undertaken by three geologists and an experienced prospector who has worked with Golden Predator for a number of years. Focus was put on intrusive rocks and sedimentary rocks proximal to those intrusions, as well as rocks which hosted sheeted quartz veins.

2012 work resulted in a number of interesting anomalous targets which warrant follow up work. Most notable is AA064560, a bedrock sample from a quartz-arsenopyrite breccia/vein which assayed over 25 g/t Au. With an orientation of 112 degrees azimuth, and a 38 degree dip, the



sample shows a similarity to Dublin Gulch style structural extensional veining. In addition, a number of samples assaying over 0.3 g/t Au were discovered, and a soil sample which assayed 1.47 g/t Au at the north of the property were also discovered.



**Figure 9.1.** Example of scorodite vein at surface. Sample AA064560 has an assay grade >25g/t Au.

It is understood that no work was undertaken in 2013 due to economic setbacks. Golden Predator did not return to the site, and the claim owner could not raise the cash to return to the property that year.

In 2014, the claim owner did return to the property, and with a small team collected 102 rock samples from across the property, in particular in the two anomalous areas previously identified by Golden Predator in their soil program.

These rocks samples returned values up to 28.8ppm Au (sample 14474), with an additional 16 samples returning grades in excess of 0.5ppm. Many of the samples were from sheeted veins or

scorodite exposures within the two anomalous zones. These zones were subsequently named Bullion Blister (in the west) and Pink Mountain (in the east).

Pink Mountain has an abundance of sheeted vein systems, and covers an area approximately 500m by 375m (although it remains open on three sides). The grades here are slightly lower but more consistent, around 1g/t Au.

Bullion Blister hosts many of the scorodite veins in oxidised rock, and as such has returned the highest assays, including the 28.8g/t.

## 9.2 2015 Exploration Program

The extent of the 2015 prospecting program is shown in Fig. 9.2. The program focussed on expanding the 2014 prospecting program northwards towards the northern margin of the pluton. The exploration found that mineralised veins in the form of sheeted quartz veins and arsenopyrite/scorodite veins which range from sub-millimetre to cm-scale extend northwards inside the margins of the pluton. The strike of the veins were consistently around 050° and are aligned with a set of SW-NE trending lineations (see section 15.2).

A total of seven samples were extracted during the 2015 sampling program. The locations of the samples are shown in figures 9.3 and 9.4. The details of sample analysis for the 2015 program are discussed below in Section 11.5. Table 9.1 shows the assay results for elements of interest for the 2015 exploration samples.

**Table 9.1.** Assay results for selected elements from the 2015 exploration program. Values are expressed in ppm.

Sample	Au	Ag	As	Bi	Cu	Mo	Pb	Sb	Zn	W
15601	0.615	<0.1	3350.1	2.3	30	0.6	4.5	1.3	34	0.1
15602	0.026	<0.1	883.6	1.1	9.5	0.4	3.6	0.8	19	0.1
15603	0.039	0.1	25.1	97.5	68.6	2.6	25.1	0.5	11	<0.1
15604	3.046	0.6	>10000.0	108.3	14.1	0.5	132.6	13.4	171	0.3
15605	0.094	0.1	1085.2	8.6	12.8	0.4	6.3	2.3	144	0.1
15606	11.6*	3.4	>10000.0	357.1	257.9	1.5	500.8	125	10	<0.1
15607	0.017	<0.1	3254.9	1.7	61.4	0.4	12.7	1.3	13	0.6

\* Average from 4 analyses.

The highest Au values (11.6 ppm on average) were returned from sample 15606, an arsenopyrite/scorodite vein, which accounts for the very high value for As. The elevated values for Bi, Cu, Pb, and Sb are most likely attributed to the presence of sulfosalt minerals. Sample



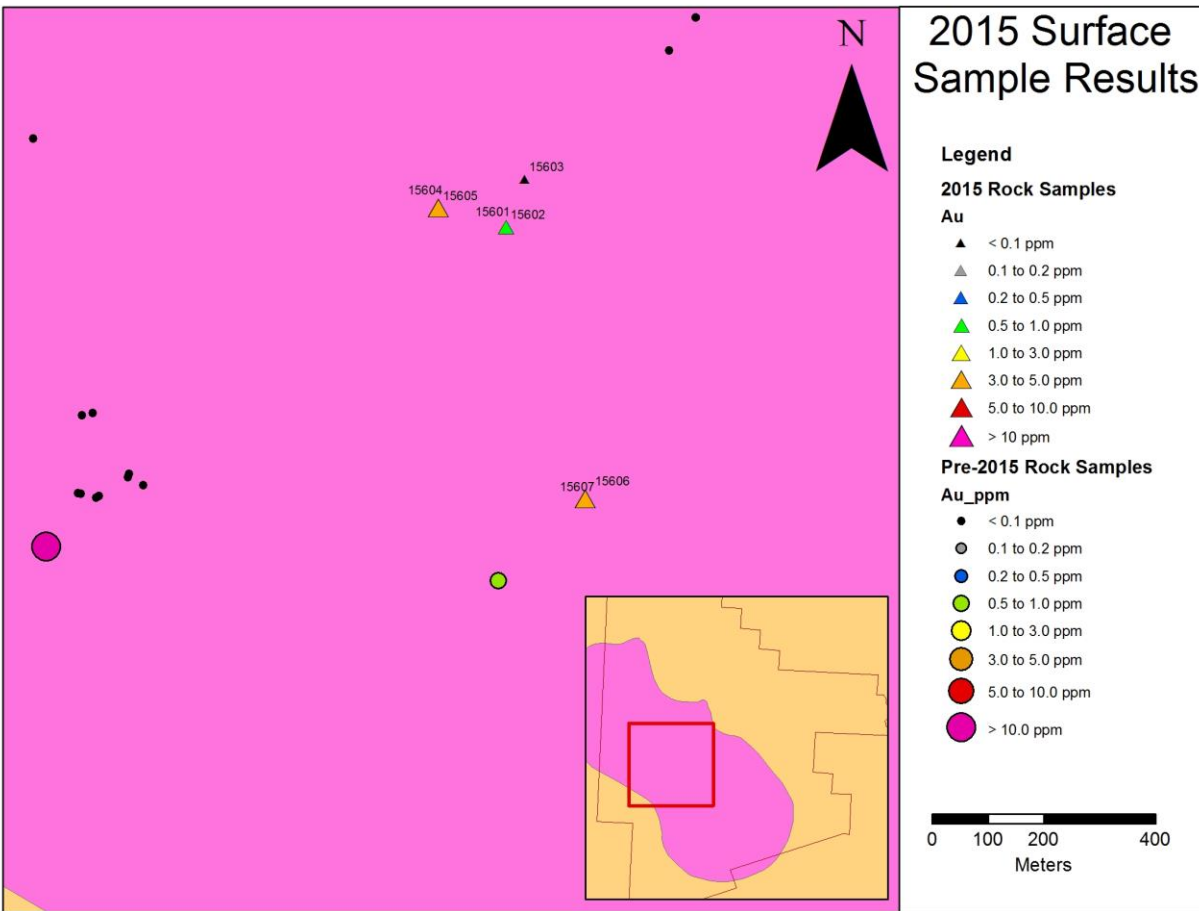


Figure 9.3. Map showing the location of samples 15601 to 15605.

Table 9.2. Details of 2015 rock samples

Sample	Easting	Northing	Au g/t	Notes
15601	478501	7100476	0.615	Highly oxidized 10cm vein. Strike 50 deg, Dip 80 deg
15602	478501	7100476	0.026	Wall rock from sample 15601
15603	478531	7100562	0.039	Oxidized rock with possible weathered microvein among similar in small outcrop. Strike 50 deg.
15604	478379	7100505	3.046	Highly oxidized “crumbly” 10cm vein, 45 deg strike, almost vertical dip of 85 deg
15605	478379	7100505	0.094	Wall rock from 15604, around 5cm from each side of vein
15606	478663	7099996	4.825	Apparent 10cm scorodite vein, highly weathered, strike 52deg. Among microveining
15607	478663	7099996	0.017	Wall rock from 15606

## 10.0 Sampling Method and Approach

Sampling of the property has been carefully completed, where possible, at sufficient depths (i.e. > 0.50 m) to avoid sampling possible shallow loess deposits. Generally, samples were collected at shallower depths (i.e. <0.3 m) in subalpine terrain with limited overburden or in boulder fields, as this was sufficient to avoid sampling glacial material (Golden Predator Canada Corp., 2013).

## 11.0 Sample Preparation, Analysis and Security

Geochemical analyses for samples from 2010 to 2015 are summarised in Table 11.1. A more detailed description of the analytical techniques is presented below, split by the year of analysis.

**Table 11.1.** Geochemical Analytical Procedures for 2010 to 2015.

Certificate Number	Lab	Type	Total Samples	Received	Completed	Method
10-360-02341	INSP	Soil	2	26th July 2010	11th August 2010	Pd-1AT-ICP, Ag-1AT-GV, Au-1AT-AA, Ag-4A-OR, Pt-1AT-ICP
10-360-00307	INSP	Rock	9	28th October 2010	10th December 2010	30-4A-TR
10-360-00308	INSP	Moss	1	24th September 2010	4th October 2010	30-4A-TR
10-360-00309	INSP	Rock	28	30th September 2010	12th October 2010	30-4A-TR
10-360-03010	INSP	Soil	44	30th September 2010	19th October 2010	30-4A-TR, Au-1AT-AA
10-360-03200	INSP	Pulp	37	13th October 2010	18th October 2010	Au-1AT-AA
WHI1101802	ACME	Soil	320	24th October 2011	5th December 2011	ACM 1DX15
WHI1101803	ACME	Soil	58	24th October 2011	5th December 2011	ACM 1DX15
12Y640856	AGAT	Rock	78	-	19th October 2012	AGAT 201074
12Y640884	AGAT	Soil	242	-	19th October 2012	AGAT 201074
WHI14000057	ACME	Rock	102	24th July 2014	13th August 2014	FA430, AQ200, FA530
WHI14000057M	ACME	Metallic Screen	4	24th September 2014	8th October 2014	FS651, FA550-Au
WHI15000139	Bureau Veritas	Rock	6	7 <sup>th</sup> August 2015	3 <sup>rd</sup> September 2015	FA430, AQ200
WHI15000155	Bureau Veritas	Rock	1	7 <sup>th</sup> August 2015	3 <sup>rd</sup> September 2015	FA430, FS631, AQ200

### 11.1 2010

All samples from the 2010 field season were sent to Inspectorate Laboratories, Whitehorse, YT, Canada. A total of 37 rock (certificates: 10-360-00307 – 9 samples, 10-360-00309 – 28 samples), 44 soil (certificate: 10-360-03010) were analysed for 30 elements using inductively coupled plasma emission spectroscopy (ICP-ES) package “30-4A-TR”. A 4-acid aqua regia digestion was performed on a 0.5 g split of the sample and subsequently analysed using ICP-ES.

46 soil (certificates: 10-360-02341 – 2 samples, 10-360-03010 – 44 samples) and 37 pulp samples (certificate: 10-360-03200) were analysed for gold using the “Au-1AT-AA” fire assay package. A lead collection fire assay fusion was made from 30 g of the sample for total sample decomposition. The resulting silver dore was digested in acid and analysed by atomic absorption spectroscopy (AAS).

Platinum, Palladium and Silver were also tested for in 2 soil samples (certificate: 10-360-02341) using the “Pt-1AT-ICP”, “Pd-1AT-ICP” and, “Ag-1AT-GV” and “Ag-4A-OR”, respectively. For Platinum and Palladium, A lead collection fire assay fusion was made from 50 g of the sample for total sample decomposition. The resulting silver dore was digested in acid and analysed by ICP-ES. For silver in the “Ag-1AT-GV” package, a lead collection fire assay fusion was made from 30 g of the sample for total sample decomposition. The resulting silver dore was digested in acid and analysed by gravimetric analysis. For “Ag-4A-OR” the sample was decomposed using a 4-acid digestion and analysed for silver using AAS.

## **11.2 2011**

All samples from the 2011 field season were sent to ACME Analytical Laboratories Ltd. in Whitehorse, YT, Canada. A total of 320 soil (certificate: WHI1101802) and 61 rock (certificate: WHI1101803) samples were analysed using the “ACM 1DX15” package for 36 elements. Samples were dried at 60°C, 100g of the sample was then sieved using an 80 mesh. Sample splits of 0.5 g are leached in hot modified aqua regia and analysed using inductively coupled plasma mass spectrometry (ICP-MS).

## **11.3 2012**

All samples from the 2012 field season were sent to AGAT ISO 9001 certified lab in Whitehorse Y.T, Canada. A total of 242 soil (certificate: 12Y640884) and 78 rock (certificate: 12Y640856) samples were analysed using the “AGAT 201074” package.

Analysis was by aqua-regia digestion and a mass spectrometer finish with a 52 metal analysis package. What follows are excerpts from the AGAT laboratory mining geochemistry package.

Samples were dried at 60 degrees centigrade, crushed to the point of 75% passing through a 2mm mesh, then split with a Jones riffler splitter or rotary split. The sample was then pulverized to the point of 85% passing through a 75 micrometer mesh. Finally, samples were screened after drying, shaken on an 80 mesh sieve with the positive fraction stored and the negative fraction sent to the laboratory for analysis. This concludes the preparation portion of sampling.

Prepared samples are digested with aqua regia for one hour using temperature controlled hot blocks. Resulting digests are diluted with de-ionized water. Sample splits of 1 gram or routinely used. These 1 gram samples are then ran through a mass spectrometer. Perkin Elmer 7300DV and 8300DV ICP-OES (Optical Emission Spectroscopy) and Perkin Elmer Elan 9000 and NexION ICP-MS (Mass Spectrometer) are used in analysis. Inter-Element Correction (IEC) techniques are used to correct for any spectral interferences (Golden Predator Canada Corp., 2013).

It should be noted that determination of gold by this method is semi-quantitative due to small sample size. Samples with arsenic above detection (>10,000 ppm) were re-run using AAS.

#### **11.4 2014**

All samples from the 2014 field season were sent to ACME Labs in Whitehorse, YT., Canada. A total of 102 rock (certificate: WHI14000057) samples were analysed using the “FA430” package for gold and “AQ200” package for a further 36 elements. Using the “FA430” package, a lead collection fire assay fusion was made from 30 g of the sample for total sample decomposition. The resulting silver dore was digested in acid and analysed by atomic absorption spectroscopy (AAS). For “AQ200”, Sample splits of 0.5 g are leached in hot modified aqua regia and analysed using inductively coupled plasma mass spectrometry (ICP-MS). Gold samples >10 g/t were re-run using the “FA-530” package, where a lead collection fire assay fusion was made from 30 g of the sample for total sample decomposition. The resulting silver dore was digested in acid and analysed for by gravimetric analysis.

A sub-set of four samples (certificate: WHI14000057M) from the original 102 were selected for additional metallic screening to test for gold using the “FS651” package. Samples underwent metallic pulverizing and a 500 g sample split was screened to 106 µm. Gravimetric analysis was performed on the plus fraction and instrumentation on the minus fraction. Two of the samples

>10 g/t gold were re-run using the “FA550-Au” package; a lead collection fire assay fusion was made from 50 g of the sample for total sample decomposition. The resulting silver dore was digested in acid and analysed by gravimetric analysis.

## **11.5 2015**

All of the samples from the 2015 field season were sent to Bureau Veritas Minerals Limited in Whitehorse, Yukon. 6 samples (certificate: WHI15000139) were analysed using the “FA430” package for gold and “AQ200” package for a further 36 elements. Using the “FA430” package, a lead collection fire assay fusion was made from 30 g of the sample for total sample decomposition. The resulting silver dore was digested in acid and analysed by atomic absorption spectroscopy (AAS). For “AQ200”, Sample splits of 0.5 g are leached in hot modified aqua regia and analysed using inductively coupled plasma mass spectrometry (ICP-MS). A single sample, 15607 (certificate: WHI15000155), which was predicted to have anomalously high Au-values, was analysed using both the “FA430” and “AQ200” packages, described above, and the “FS631” package. The sample underwent metallic pulverizing and a 500 g sample split was screened to 106 µm. Gravimetric analysis was performed on the plus fraction of the split.

## **12.0 Data Verification**

All analyses were tested for accuracy and precision using a series of standardised materials, preparation duplicates and procedural blanks at the corresponding laboratories under their respective internal quality control protocol. Field blanks were inserted into soil analyses for 2011 and 2012 at a frequency of ~1 per 50 samples. Table 12.1 lists the standards used for each certificate.



**Table 12.1.** Summary of geochemical standards used by laboratories.

<b>Certificate Number</b>	<b>Standard(s)</b>
10-360-02341	STD-ME-6
10-360-00307	STD-ME-6
10-360-00308	No standard used
10-360-00309	STD-ME-6
10-360-03010	STD-ME-8, STD-OREAS-45P-4A, STD-Oxi67
10-360-03200	STD-Oxi67
WHI1101802	STD DS8
WHI1101803	STD DS8
12Y640856	Standard used but not referenced
12Y640884	Standard used but not referenced
WHI14000057	STD AGPROOF, STD DS10, STD OREAS45EA, STD OXD108, STD OXI121, STD OXN117, STD SP49
WHI14000057M	STD AGPROOF, STD OXD108, STD OXI121, STD OXN117, STD OXP91, STD SP49, STD SQ70
WHI15000139	STD DS10, STD OREAS45EA, STD OXD108, STD OXI121, STD OXN117
WHI15000155	STD DS10, STD OREAS45EA, STD OXD108, STD OXI121, STD OXN117, STD OXP91

### 13.0 Adjacent Properties

Two major mineral properties lie adjacent to McConnells Jest, the Dublin Gulch gold deposit to the west and the Keno Hill silver district to the south east (see Fig. 13.1). The Dublin Gulch and Keno Hill properties are owned by Victoria Gold Corp. and Alexco Resources Corp., respectively.

Victoria Gold Corp. acquired the Dublin Gulch property in June, 2009 through the acquisition of StrataGold Corp. Victoria Gold Corp. holds 1,912 quartz claims, 10 quartz leases, and 1 federal Crown grant on the Dublin Gulch property. Currently, Dublin Gulch is an advanced-stage gold exploration project with around 630 diamond drill holes to date and a global resource of 6.3 M oz (4.8 M oz – 222 Mt @ 0.68g/t Au indicated; 1.5 M oz - 78 Mt @ 0.60 g/t Au inferred). The Eagle Zone, which has a 2.3 M oz (proven and probable) gold reserve contained within it (Wardrop Engineering Inc., 2011, 2012) is the most significant zone of mineralization. The property also hosts the Olive Zone - a recent gold exploration target, the Wolf (Mar) tungsten skarn (Indicated: 12.7 Mt @ 0.31 % WO<sub>3</sub>, 86.2 M lbs contained WO<sub>3</sub>; Inferred: 1.3 Mt @ 0.30 % WO<sub>3</sub>, 8.9 M lbs contained WO<sub>3</sub>; SRK Consulting, 2008) and the Rex-Peso silver prospect (Probable: 0.14 Mt @ 716 g/t Ag, 3.7 % Pb; Hitchins and Orssich, 1995).



mineralization at Bellekeno is unlikely to occur at McConnells Jest, but cannot be entirely ruled out until further work has taken place.

## **14.0 Other Relevant Data and Information**

### **14.1 First Nations**

The property is located within the traditional territory of the Nacho Nyak Dun First Nations. The nearest settlement land or R-block is R-05A on Davidson Range, on the eastern edge of the property and east of McQuesten Lake. Two other nearby R-blocks are R-09B and A-07A, which are located northeast and northwest of the property, respectively.

### **14.2 Environmental Issues**

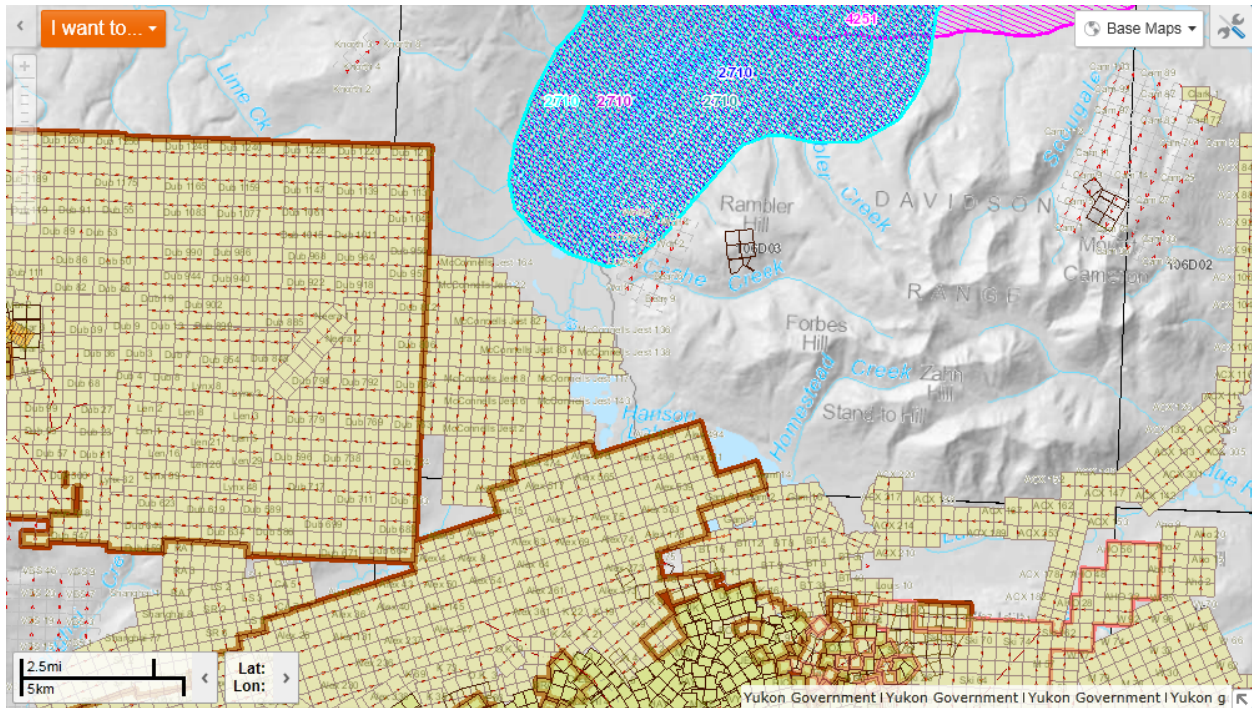
The surrounding region of the property, which itself is located on the border between the administrative boundaries of 105M and 106D (Fig 14.1), is home to wildlife that range from being very common throughout the Yukon to being only endemic within the territory's central eastern region. The administrative boundaries of 105M and 106D are home to about 43 species of mammals, over 100 species of birds, 38 species of butterflies, 14 species of fish, the common wood frog and the less common boreal snaketail dragonfly.

The nearest significant wildlife key area is located just north of the property and is a summer nesting area shared by four species of raptors: peregrine falcon (*Falco peregrinus*), osprey (*Pandion haliaetus*), golden eagle (*Aquila chrysaetos*) and bald eagle (*Haliaeetus leucocephalus*). This area in turn overlaps a waterfowl breeding area to the east.

Aside from animals, the area is also home to rare vascular plant species endemic to the Yukon's Central Territory. A 2014 edition guide with descriptions of 39 of the rarest plants in the Central Territory of the Yukon can be found on the Yukon Conservation Data Centre website (Yukon Conservation Data Centre, 2014).

Given the concentration of mines and related development within the vicinity of the property, there does not appear to be any urgent conservation issues related to this area. There is however

hunting and trapping activities present in the vicinity, as there is an abundance of small game such as weasels, waterfowl and grouse.



**Figure 14.1.** Map of administrative boundaries 105M and 106D used to classify the potential flora and fauna on the property.

### 14.3 Local Populations

The capital city of Yukon Territory, Whitehorse is located ~350km south of the McConnells Jest property. According to the 2011 National Household Survey (NHS) the population of Whitehorse is 22,815 where 19,040 have a non-Aboriginal identity. Amongst the 19,040 people 17,130 have European origins and 1,905 have Asian origins. Filipino (705) and Chinese (535) make up the largest portions of the Asian visible minority. Other notable visible minorities include African (145) and Latin American (125) (Statistics Canada, 2013).

Local communities within ~100km of the McConnells Jest Property include: Elsa (~8km SW), Keno City (~10km SE), Mayo (~45km SW) and Stewarts Crossing (~90km SW).

According to the 2011 National Census, amongst the local communities, Mayo is largest with a population of 226, followed by Keno Hill (Keno City) with a population of 28 and Stewarts Crossing with a population of 25 (Statistics Canada, 2012c).

Elsa is considered a ghost town as its population moved out following the closure of the United Keno Hill mine in 1989.

According to Statistics Canada, 2011 NHS data for Mayo, Keno City and Stewarts Crossing has been suppressed for data quality or confidentiality reasons (Statistics Canada 2012a, b and d). Due to this, ethnicities for these communities are not public data.

## **15.0 Interpretation**

The work so far seems to indicate that the McConnells Jest property is geologically very similar to that of Dublin Gulch, and thus has the potential to contain a significant deposit.

### **15.1 Geochemical Evidence**

Through consolidating the geochemical data collected between 2011 and 2015, it becomes clear that there are several zones of interest (Fig. 15.1), although it should be noted that sampling coverage of the property is not complete, and so there is significant potential for other mineral zones.

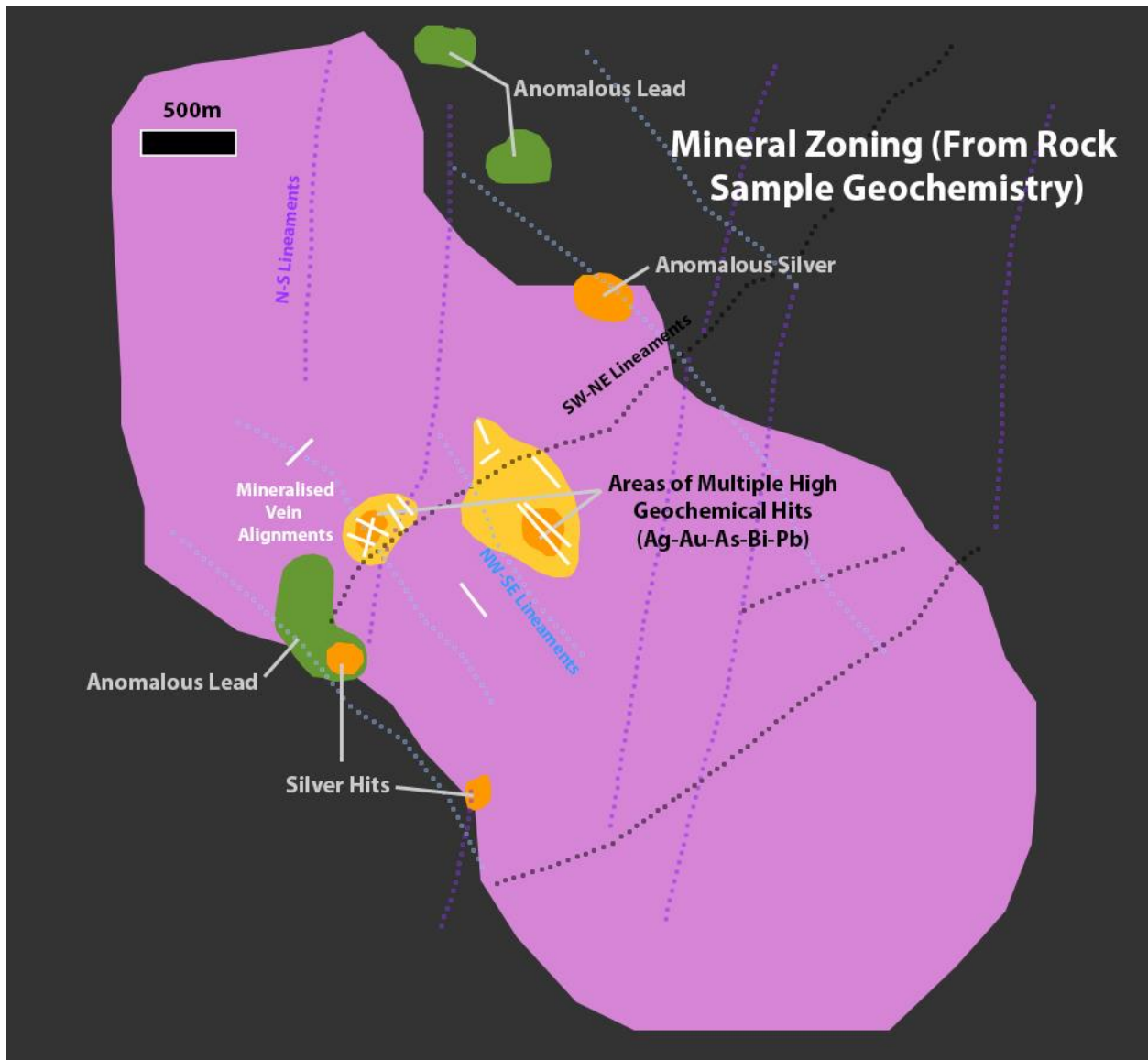
The main area of interest lies along the SW-NE trending lineations (refer to section 15.2), where multiple elements are in higher proportions, including gold, silver, bismuth, arsenic and lead. These also coincide with veining observed and recorded in field notes.

Around the edges of the pluton, there are several silver and silver-lead anomalies, which could represent either distal (and therefore cooler) systems, or overprinting from Keno Hill style mineralisation.

On the southwestern side of the pluton, there seems to be some correlation to elevated tungsten levels, although the limited number of samples collected from this area allows only limited conclusions to be made from this observation.

This assemblage of elements is in agreement with an intrusion-related gold system classification, and spatially bears resemblance to the geochemical distributions of Dublin Gulch.

Although levels in the soil samples are low, this is to be expected with the glacial cover across the property. Samples directly from veins show much higher results and are more indicative of grade.

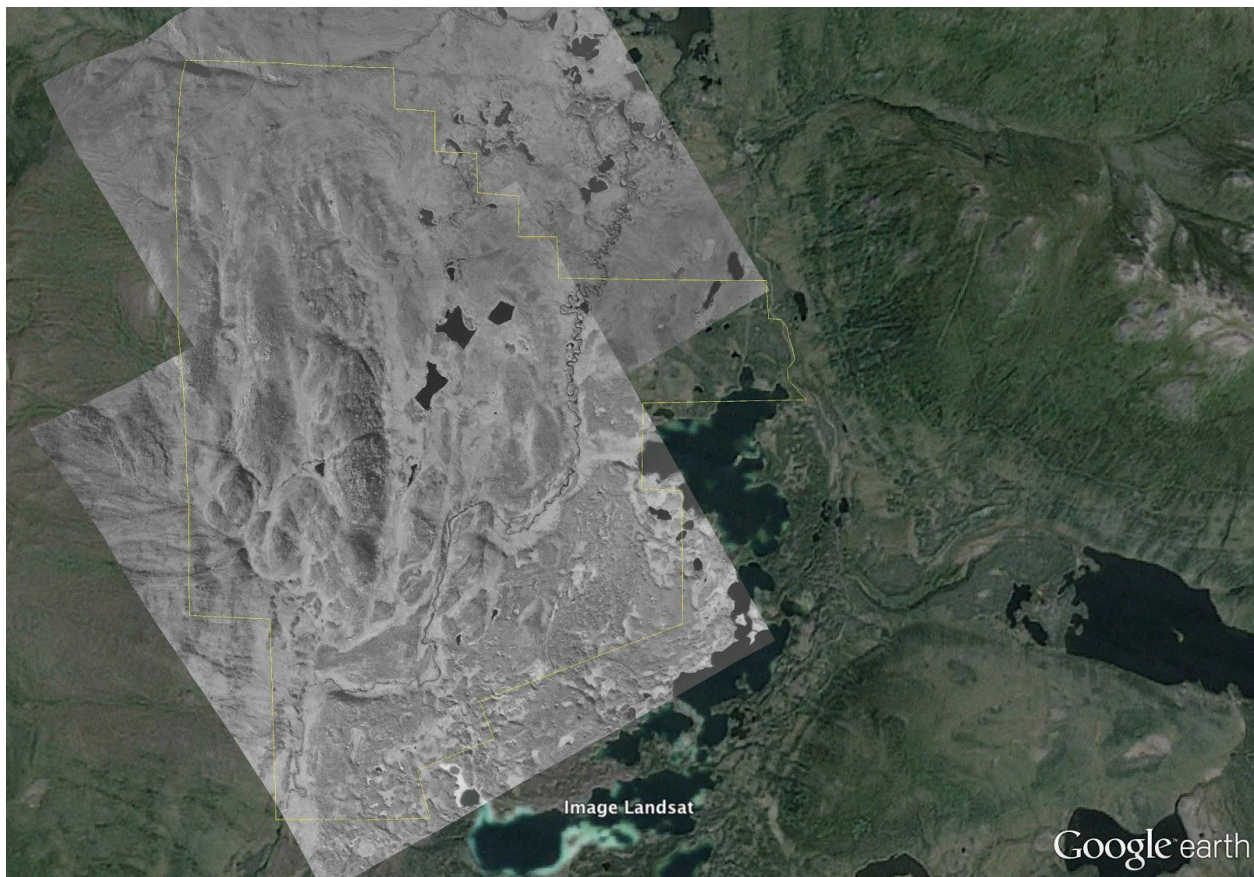


**Figure 15.1.** Preliminary element zoning from rock sample geochemistry. Green = Anomalous Lead, Orange = Anomalous Silver, Yellow = Multi-element anomalies (Ag-Au-As-Bi-Pb).

## 15.2 Structural Elements

The Energy, Mines and Resources Library in Whitehorse, Yukon Territory, has a considerable library of aerial photography which is publically accessible. Using their online service, Skyline, the flightlines and plates that intersected McConnells Jest were noted and scans of the photos obtained.

The flightline for this property is 'A28301, and plates 185 - 188 (inclusive) cover the ground. The photos were flown in 1996, and have a scale of 1:30,000 (Fig. 15.2).



**Figure 15.2.** Combined aerial photography for the McConnell's Jest property. Flightline A28301 plates 185 to 188 were combined to form the image. Scale is 1:30,000.

These images reveal a wealth of information, and the high contrast black and white photos reveal lineations and structures that can be related to ground based observations.

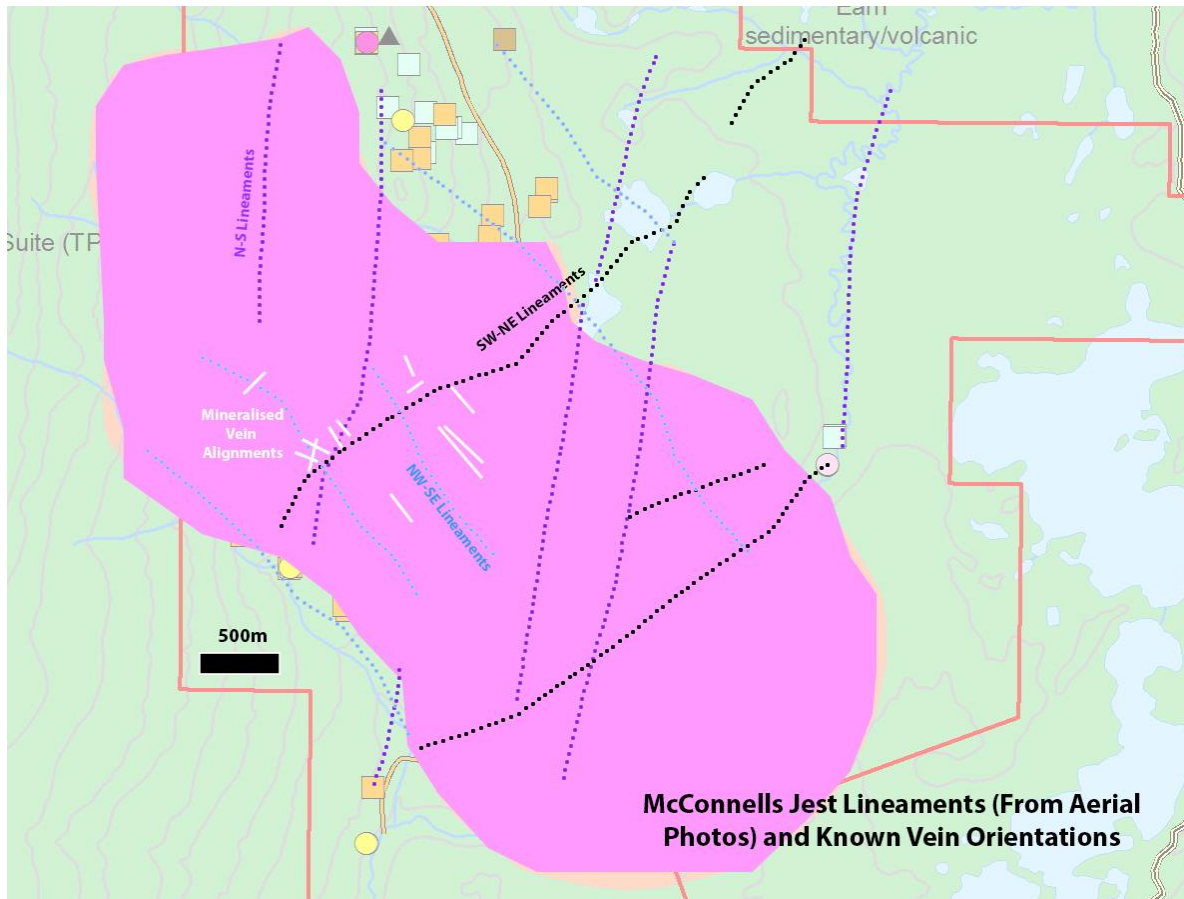
Interpretation of aerial photography appears to show three sets of lineations;

- North - South trends (Set 1)
- Northwest - Southeast trends (Set 2)
- Southwest - Northeast trends (Set 3)

The lineations have been highlighted in Fig. 15.3. Initially it seems that Set 3 lineations are regional, and expand well beyond the boundaries of the property. The areas of intense mineralisation and geochemical highs are found along the area where Set 3 intersect with the other two sets, most notably Set 2. The orientation of highly prospective veins appear to be closely aligned with Set 3 and also have some development in alignment with Set 2, which could be directly related to this trend, or be propagated from smaller riedel shear systems. Further investigations in the field would be required to take more accurate measurements in order to more vigorously examine the structural relationships.

It should be noted again that these lineaments align well with the mineralising structures observed at Dublin Gulch, especially with the historic high-grade Olive, Shamrock and Catto veins, which suggests that the dominant structural regime during mineralisation at McConnells Jest may have been a regional event aligned with Set 3 lineations.





**Figure 15.3.** Interpreted structural lineaments on the McConnell's Jest property. Three main lineaments are present, N-S (Purple), SE-NW (Light Blue), SW-NE (Black). Known vein orientations are shown in white.

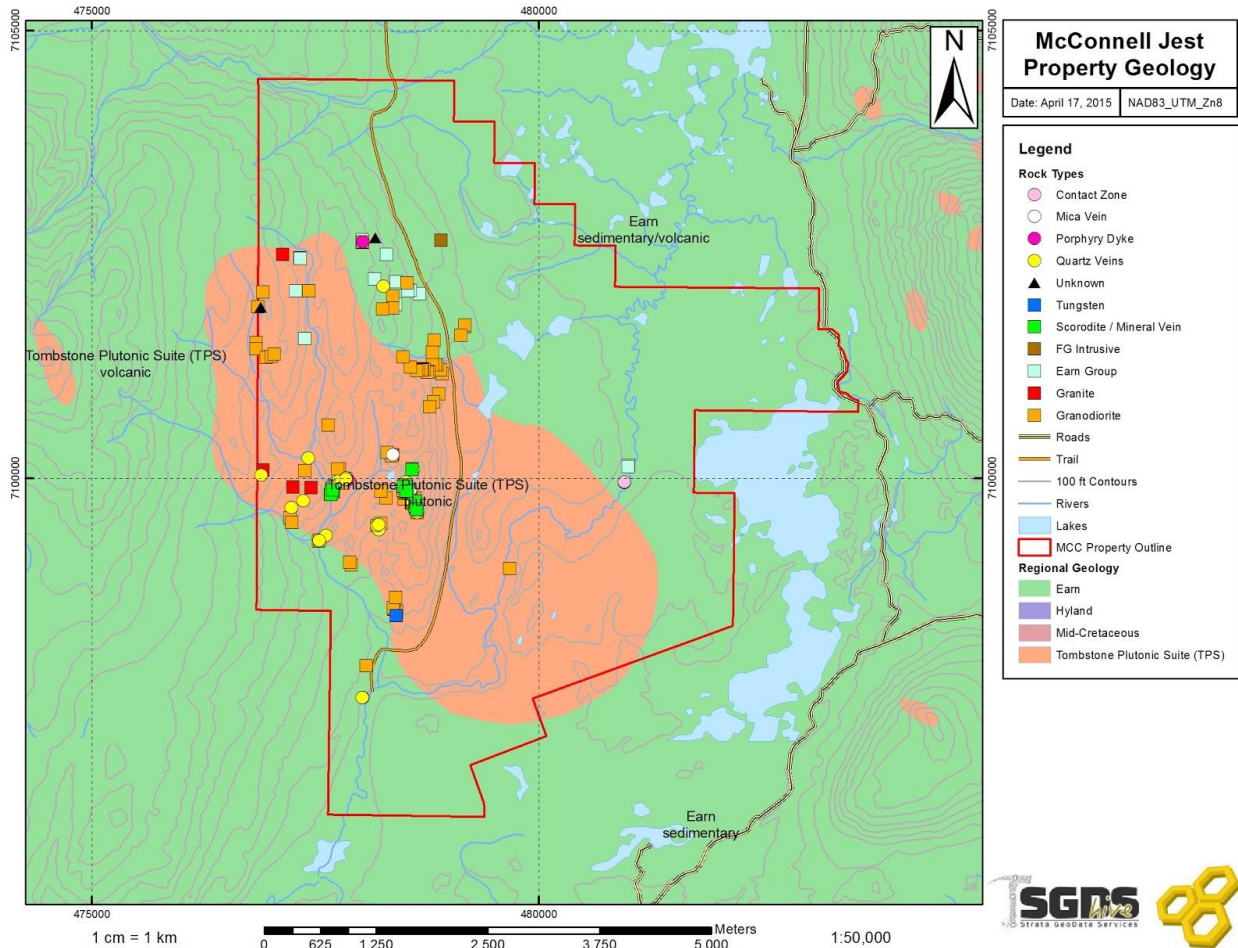
### 15.3 Rock Types

No detailed geology map has ever been generated for this project, and historically only the Yukon Geological Survey maps had been used which are inaccurate due to their scale.

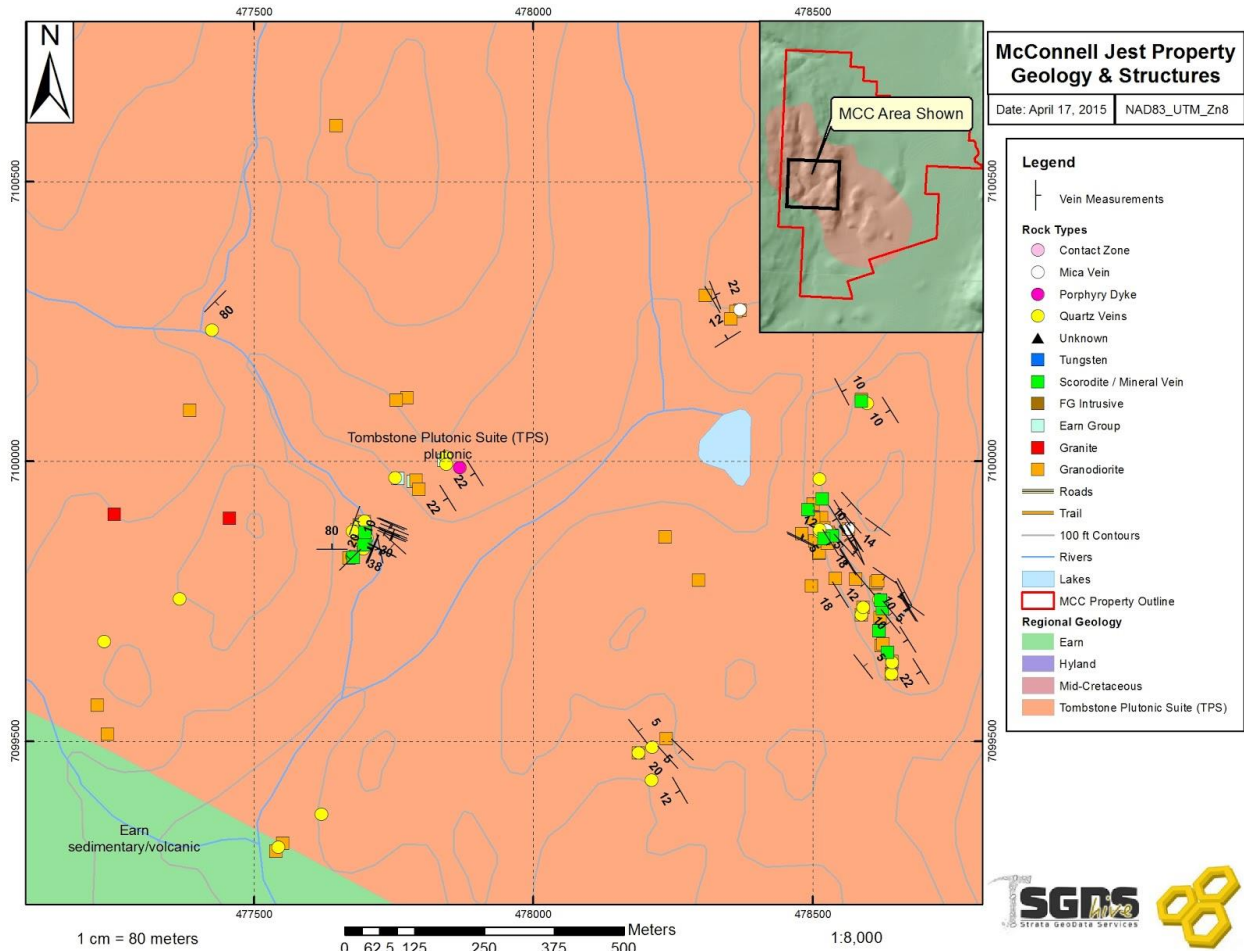
Randell et al., (2015) collected any information pertaining to rock types from available documentation and field notes to construct a preliminary database built for the project. The database contains over two hundred data points, which were consolidated and placed in broad lithological categories. Plotting these points, as well as structural data, created an embryonic geological map for further scrutiny (Figs. 15.4, 15.5). It has shown that the pluton is more or less the right volume and orientation for an IRGS classification, although it is not homogeneous in texture. There are also several outlying igneous exposures, especially in the northeast, which

could represent dyke swarms of a cupola of the main pluton. These also correlate with the Ag-Pb mineralisation in the area.

There also seems to be a significant inlier of Earn Group sedimentary rocks in the northwestern quadrant, which also aligns with one of the north-south lineaments. This could be representative of a roof pendant, or faulting that has created an uneven profile around the pluton.



**Figure 15.4.** Distribution of rock types at McConnell's Jest interpreted from field sampling notes and sample photographs. Rock types are overlain on the current YGS map for the area.



**Figure 15.5.** Rock types and vein orientations on the southern shoulder of the central portion of the McConnell pluton.

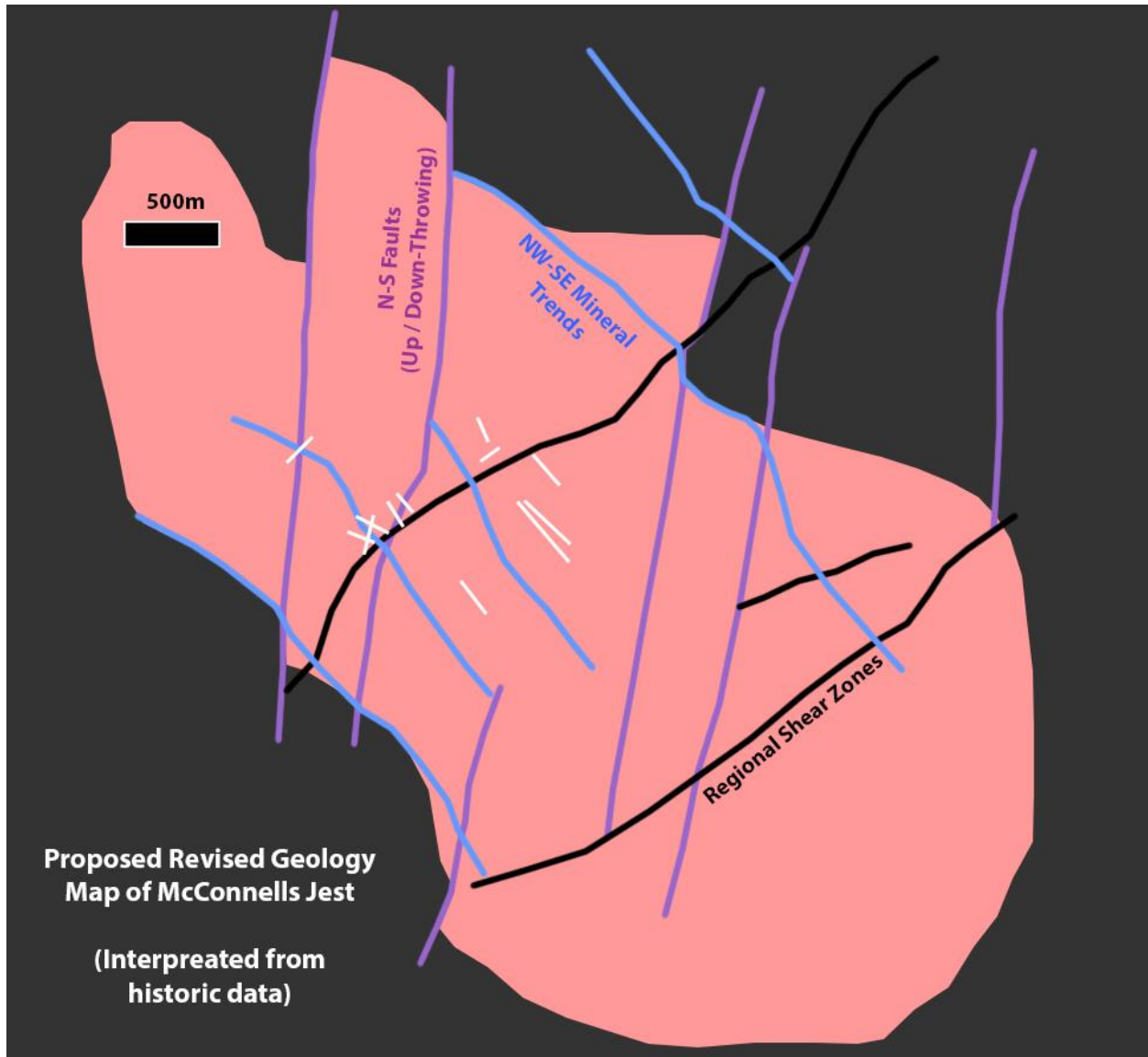
### 15.4 Revised Geology

Using all of this information, the first geological interpretation of McConnell's Jest could be drawn (Fig. 15.6). Although this would need to be followed up in the field, the data used is reliable.

It would appear that the north-south lineations represent normal faults, which have displaced blocks of the pluton either 'up' or 'down' relative to one another. This could also account for the finger of Eam Group sedimentary rocks in the northwest quadrant.

The northwest-southeast trends seem to be the main mineralising systems, and align with the mineral veins observed in the field. It is not known if these are fault related, but they seem local to the pluton and do not extend far into the country rock, although further work would be required to test this.

The last trend, those that run southwest to northeast, could be regional shear zones that pass through the entire area.



**Figure 15.6.** The proposed revised geologic map of McConnells Jest based on structural interpretation of the surrounding geology.

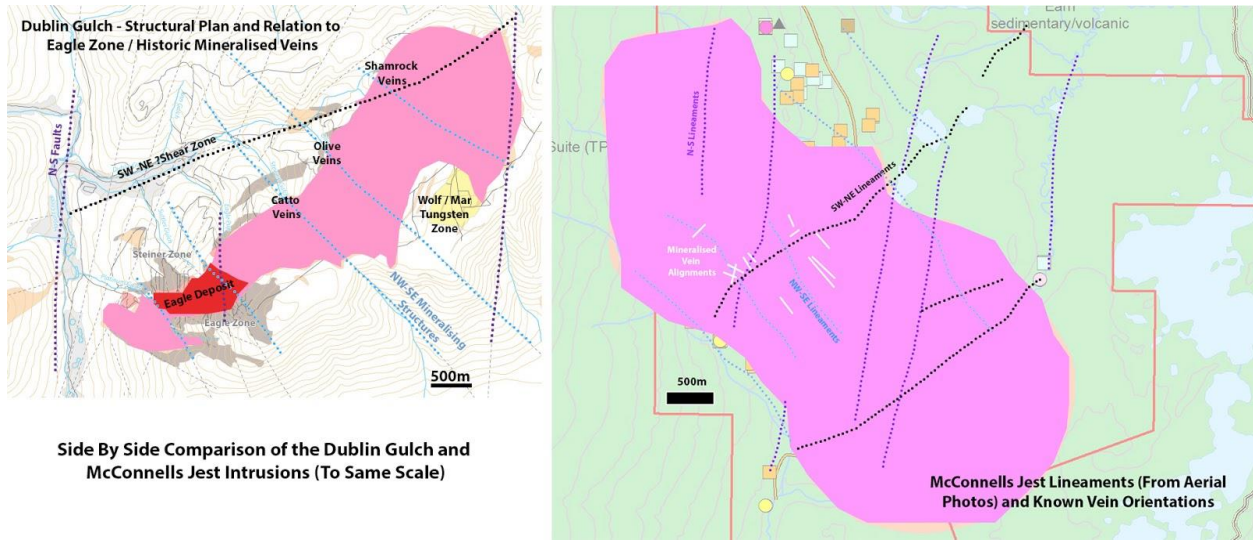
## 15.5 Conclusions

From this gathering and consolidation of data, there are several similarities structurally, geologically and geochemically to Dublin Gulch.

It has to be remembered that the Dublin Gulch discovery was overlooked for sometime due to the lack of a surficial gold anomaly. The lack of a strong gold-in-soil anomaly at McConnells Jest does therefore not preclude the existence of an ore body.

The proximity to Keno Hill may also mean that we see some silver - lead - zinc mineralisation on the property too. These can also be cooler, more distal systems to the pluton, but we cannot rule out some overprinting from the Keno-Elsa corridor.

When a map of McConnells Jest and Dublin Gulch are placed side by side (Fig. 15.7), there is a clear similarity in structural regime, although the McConnells Jest pluton is has around double the surface area.



**Figure 15.7.** Comparison of structural lineaments at Dublin Gulch (left) and McConnells Jest (right). Both plutons share the same three groups of structural alignments N-S (Purple), SE-NW (Light Blue) and SW-NE (Black). The images are drawn to the same scale and show that the exposed surface of the McConnell pluton is significantly larger than that at Dublin Gulch.

Such Ag-Pb-Zn veins also occur at Dublin Gulch, in particular their Olive and Shamrock Zones, located about 1km east from the main deposit. On the surface, these are expressed as outcroppings of scorodite, a mineral that occurs from the weathering of arsenic-rich minerals. Historically, these veins were chased underground in artisanal mining operations and were quite productive, if not short lived.

McConnells Jest has both the sheeted vein systems (Pink Mountain) and scorodite outcrops (Bullion Blister). The presence of till cover has somewhat impeded more extensive mapping and collection methods, which is something that should be addressed in the future.

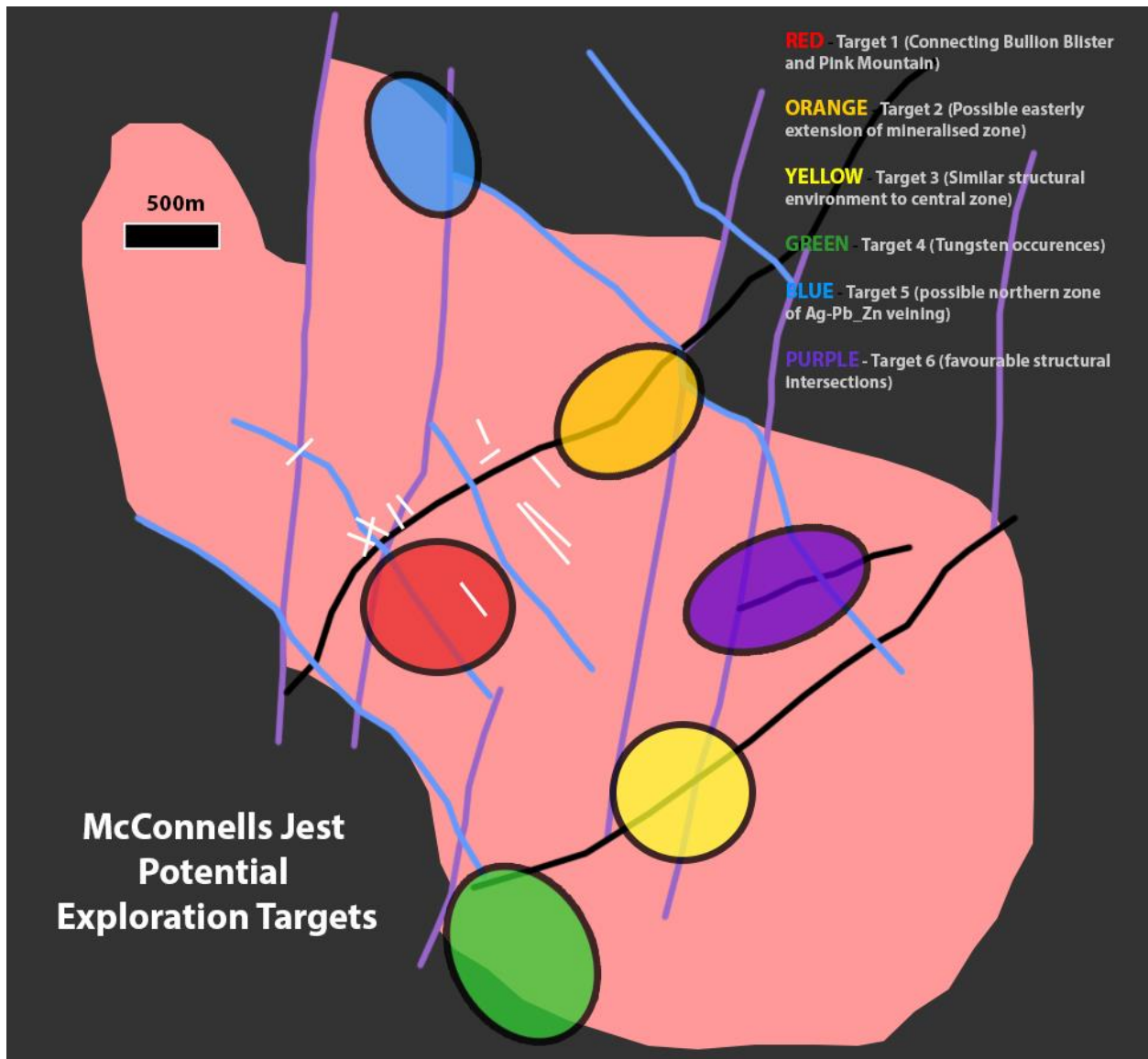
## 16.0 Recommendations

Essentially this project is at a crucial point. The work so far has proven several similarities to Dublin Gulch, but the economic downturn has detracted potential investors from a property that shows sporadic anomalous assays. Two main factors have to be remembered here:

- The property is surrounded by mines that have successfully operated for many years, with new sites coming online in the next decade. These are not distal properties, but border the property and have geological continuity.
- The Eagle Zone at Dublin Gulch contains a global resource of 6.3 Moz of gold, yet has little to no geochemical expression on surface.

The McConnells Jest Property would benefit most from the following:

- **Basic Mapping:** The property needs to have a geological map produced, showing the rock types, alteration, structures and mineralisation. Although this is somewhat difficult due to the glacial till cover, there is enough exposure on the high points to get a large portion of the property mapped.
- **Scorodite Prospecting:** If the property follows the Intrusion Related Gold model, then gold was delivered in late stage quartz or arsenopyrite veins which will be spaced 20-50m apart. As scorodite is easy to identify on surface, prospecting this will reveal not only the grades, but also structural alignments. These can then be traced out over the entire property to identify other areas of interest.
- **Sheeted Vein Prospecting:** Typically, a series of aligned quartz veins host a significant portion of the gold in these systems. Mapping of the area, particularly in the northern and southern shoulders to locate areas of the highest density of veining. Once these are identified, these would produce the first exploration targets for future drill programs.
- **Mineralogical Study:** A representative suite of samples should be sent to an appropriate laboratory to identify the mineralisation assemblage. This will allow the proposed mineral deposit model to either be confirmed or rejected. This work will ensure that exploration strategies are in agreement with the observed, rather than hypothesised, detailed mineral assemblage.
- **Identify Calcareous Areas of the Earn Group:** Looking for these horizons in the country rock could show evidence of skarn mineralisation. On the south-eastern side of the Dublin Gulch intrusion, contact with such layers produced a large tungsten deposit. A National Instrument 43-101 report authored by SRK Consulting (2008) stated that the Mar-Tungsten deposit contains 65.7 million pounds of tungsten in the Indicated category, and an additional 8.5 million pounds Inferred. This has not been studied at McConnells Jest, and doing so would complete the picture according the regional mineralisation models.
- Figure 16.1 shows **several target areas** that are favourable for a variety of reasons. The most compelling are those that are in intersectional areas of the lineaments.



**Figure 16.1.** Exploration targets generated from the geologic interpretations of the McConnells Jest property above. A total of 6 targets are proposed based on geochemical and structural data.

Much of this work would be undertaken by geologists in the field, collecting more information and samples from specific outcrops. Knowledge of the Dublin Gulch system will be an asset when looking at this ground.

Methods for sampling till have improved in recent years, especially for geochemical analysis, with several laboratories offering specialised services. It could be proposed that additional soil work be undertaken in the southern and eastern portions, but only when regional trends had been identified from mapping, thus giving confidence in these potential extensions.

Access to the bedrock could also be achieved either by trenching or drilling. In both instances, it would be recommended to look at mobile, heliportable apparatus as the property is not directly accessible by road at this stage. Low impact excavations also fit within existing exploration permits and demonstrate environmental stewardship.

In addition to geological work, it would be prudent at this stage to include some level of environmental assessment projects. Before any ground disturbance occurs through drilling or trenching, it is recommended to take water samples from the streams to analyse for basic composition and dissolved mineral content. This should be prioritised in the areas directly downstream from the scorodite veins that will likely increase the arsenic, lead and antimony in the water. Having these results acts as an ‘insurance’ policy to prove that any elevated levels measured in the future are not a direct consequence of exploratory work. Water sampling should be planned out in advance, as the samples need to reach a lab within 24 hours of being collected.

Other general environmental studies should be considered also: vegetation mapping, stream delineation (permanent waterways versus ephemeral streams as these will define protective buffers for exploration activity), and also some basic wildlife / plant surveys.

All of this work could be accomplished in a single field season with an experienced team of geologists / geotechnicians. Depending on funding available, the team could either fly camp on the site, or fly in from accommodations in Keno, Mayo or even the camp at Dublin Gulch.

The product of this work program would be to define structures and confirm the geological model. This would generate drill targets for future years and generate further investment interest.



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## **Appendix 1**

### **Statement of Professional Qualifications**

I, Andrew P. Randell, do hereby certify that:

1) I am a Principal Geoscientist with Strata GeoData Services (SGDS) with an office at Suite 415, 1035 Pacific Street, Vancouver, British Columbia, Canada;

2) I am a graduate of the University of Cardiff, Wales in 1998 with BSc (Honours) Environmental Geoscience. I have practiced my profession continuously since 2007. I worked in exploration of base and precious metals mainly in Canada.

3) I am a Professional Geoscientist registered with the Association of Professional Geoscientists of British Columbia (APEGBC #162700);

4) I have read the definition of qualified person set out in National Instrument 43-101 and certify that by virtue of my education, affiliation to a professional association, and past relevant work experience, I fulfill the requirements to be a qualified person for the purposes of National Instrument 43-101 and this technical report has been prepared in compliance with National Instrument 43-101 and Form 43-101F1;

5) I have co-authored all sections with Fraser Kirk BSc MSc.

6) I have not received, nor do I expect to receive, any interest, directly or indirectly, in the McConnells Jest Property;

7) That, as of the date of this certificate, to the best of my knowledge, information and belief, this report contains all scientific and technical information that is required to be disclosed to make the report not misleading.

Vancouver, British Columbia

April 24th, 2016

“signed and sealed”

Andrew P. Randell, PGeo (APEGBC #162700)

Principal Geoscientist

**Appendix 2**  
**Statement of Expenditures**

**2015 Expenditures for Mineral Claims "McConnells Jest 1" through "McConnells Jest 172"**

**Travel costs (within Yukon) July 22 through August 7<sup>th</sup>**

Vehicle @ \$50 per day ..... \$ 850.00  
Fuel expenditures ..... \$ 265.01

**Labor costs July 22 through August 7<sup>th</sup> (17 days)**

Field Lead - 17 days @ \$575.00 per day ..... \$9775.00  
Field Assistant - 17 days @ \$375 per day ..... \$6375.00

**Assay costs**

Bureau Veritas Commodities Canada Ltd (Acme Labs) .. \$ 310.54

**Other expenses (within Yukon)**

Foodstuff ..... \$ 258.47  
Maps ..... \$ 16.80

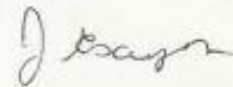
Subtotal Yukon expenditures ..... \$17,850.82  
GST paid ..... minus \$ 43.51

Total Yukon expenditures for assessment purpose. **\$17,807.31**

**William (Bill) Koe'-Carson**



**January 21st, 2016.**



**Appendix 3**  
**2015 Sample Photographs**

















**Appendix 4**  
**Certificates of Analysis**





**BUREAU VERITAS** MINERAL LABORATORIES  
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Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (804) 253-3158

Client: **William Koe-Carson**  
Box 387  
White Fox SK S0J 3B0 CANADA

Submitted By: William Koe-Carson  
Receiving Lab: Canada-Whitehorse  
Received: August 07, 2015  
Report Date: September 03, 2015  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI15000139.1

### CLIENT JOB INFORMATION

Project: McConnell  
Shipment ID:  
P.O. Number  
Number of Samples: 6

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: William Koe-Carson  
Box 387  
White Fox SK S0J 3B0  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	6	Crush, split and pulverize 500g rock to 200 mesh			WHI
FA430	6	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
AQ200	6	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
BAT01	6	Batch charge of <20 samples			WHI

### 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. Bureau Veritas 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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PHONE (804) 253-3158

Client: **William Koe-Carson**  
Box 387  
White Fox SK S0J 3B0 CANADA

Project: McConnell  
Report Date: September 03, 2015

Page: 2 of 2

Part: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI15000139.1

Method	Analyte	Unit	WGHT	FA430	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	
				Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
			kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL			0.01	0.006	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.6	0.6	0.1	1	0.1	0.1	0.1	2	0.01
15601	Rock		0.48	0.615	0.6	30.0	4.5	34	<0.1	16.4	30.0	888	3.00	3350.1	98.4	13.6	7	0.1	1.3	2.3	<2	0.13
15602	Rock		0.67	0.026	0.4	9.5	3.6	19	<0.1	5.2	9.9	870	1.98	883.6	13.1	16.2	7	0.1	0.8	1.1	3	0.12
15603	Rock		0.53	0.039	2.6	68.6	25.1	11	0.1	2.8	2.2	98	1.88	25.1	38.8	2.8	7	<0.1	0.5	97.5	4	0.06
15604	Rock		0.25	3.046	0.5	14.1	132.6	171	0.6	3.5	7.6	546	4.98	>10000	1191.7	9.1	28	0.9	13.4	108.3	<2	0.11
15605	Rock		0.72	0.094	0.4	12.8	6.3	144	0.1	3.1	3.5	442	2.32	1085.2	550.1	11.2	15	0.6	2.3	8.6	<2	0.07
15607	Rock		0.52	0.017	0.4	61.4	12.7	13	<0.1	1.9	4.2	228	4.57	3254.9	11.6	14.4	5	<0.1	1.3	1.7	<2	0.03

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Box 387  
White Fox SK S0J 3B0 CANADA

Project: McConnell  
Report Date: September 03, 2015

Page: 2 of 2 Part: 2 of 2

## CERTIFICATE OF ANALYSIS

WHI15000139.1

Method Analyte Unit	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200
	P %	La ppm	Cr ppm	Mg %	Ba ppm	Tl %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Se ppm	Ti ppm	S %	Ga ppm	Be ppm	Te ppm	
MDL	0.001	1	1	0.01	1	0.001	<20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.06	1	0.6	0.2	
15601 Rock	0.054	18	6	0.10	139	0.001	<20	0.36	0.007	0.30	0.1	<0.01	1.0	0.1	<0.05	<1	<0.5	<0.2	
15602 Rock	0.051	23	5	0.10	151	0.005	<20	0.49	0.012	0.31	0.1	<0.01	1.1	0.1	<0.05	1	<0.5	<0.2	
15603 Rock	0.014	3	4	0.10	41	0.040	<20	0.25	0.017	0.13	<0.1	<0.01	0.5	<0.1	0.05	1	0.8	1.0	
15604 Rock	0.038	16	3	0.04	101	0.001	<20	0.32	0.008	0.24	0.3	0.02	1.1	0.3	0.18	<1	<0.5	<0.2	
15605 Rock	0.031	22	4	0.04	125	0.002	<20	0.38	0.008	0.31	0.1	<0.01	1.0	0.1	<0.05	<1	<0.5	<0.2	
15607 Rock	0.041	13	2	0.02	117	<0.001	<20	0.26	0.006	0.23	0.6	<0.01	0.7	<0.1	0.07	<1	<0.5	<0.2	

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PHONE (804) 253-3158

Client: **William Koe-Carson**  
Box 387  
White Fox SK S0J 3B0 CANADA

Project: McConnell  
Report Date: September 03, 2015

Page: 1 of 1 Part: 1 of 2

**QUALITY CONTROL REPORT** WHI15000139.1

Method	WGHT	FA430	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca		
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%		
MDL	0.01	0.006	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.6	0.6	0.1	1	0.1	0.1	0.1	2	0.01		
<b>Pulp Duplicates</b>																						
15607	Rock	0.52	0.017	0.4	61.4	12.7	13	<0.1	1.9	4.2	228	4.57	3254.9	11.6	14.4	5	<0.1	1.3	1.7	<2	0.03	
REP 15607	QC			0.6	62.8	13.3	14	<0.1	1.9	4.5	235	4.71	3344.9	9.4	15.3	5	<0.1	1.4	1.9	<2	0.03	
<b>Reference Materials</b>																						
STD DS10	Standard			13.8	154.0	158.9	378	2.0	76.4	13.4	889	2.73	46.9	63.0	7.7	66	2.7	10.0	12.6	42	1.05	
STD OREAS45EA	Standard			1.8	699.3	15.0	29	0.3	374.9	51.8	416	21.59	11.5	53.8	10.2	4	<0.1	0.4	0.3	302	0.04	
STD OXD108	Standard			0.412																		
STD OXI121	Standard			1.840																		
STD OXN117	Standard			7.913																		
STD DS10 Expected				14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	91.9	7.5	67.1	2.49	8.23	11.65	43	1.0625	
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	
STD OXD108 Expected				0.414																		
STD OXN117 Expected				7.679																		
STD OXI121 Expected				1.834																		
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	
BLK	Blank			<0.005																		
BLK	Blank			<0.005																		
<b>Prep Wash</b>																						
ROCK-WHI	Prep Blank			<0.005	0.4	9.6	1.4	40	<0.1	14.7	4.5	483	1.79	0.7	<0.5	2.1	21	<0.1	<0.1	<0.1	20	0.54

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PHONE (804) 253-3158

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Box 387  
White Fox SK S0J 3B0 CANADA

Project: McConnell  
Report Date: September 03, 2015

Page: 1 of 1 Part: 2 of 2

**QUALITY CONTROL REPORT** WHI15000139.1

Method	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Se	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.06	1	0.6	0.2	
<b>Pulp Duplicates</b>																			
15607	Rock	0.041	13	2	0.02	117	<0.001	<20	0.26	0.006	0.23	0.6	<0.01	0.7	<0.1	0.07	<1	<0.5	<0.2
REP 15607	QC	0.043	12	2	0.02	124	<0.001	<20	0.28	0.006	0.24	0.5	<0.01	0.8	<0.1	0.07	<1	<0.5	<0.2
<b>Reference Materials</b>																			
STD DS10	Standard	0.078	17	55	0.76	420	0.077	<20	0.98	0.064	0.33	2.9	0.33	2.8	5.1	0.28	4	2.0	5.2
STD OREA945EA	Standard	0.028	7	834	0.09	146	0.098	<20	3.08	0.016	0.05	<0.1	<0.01	76.5	0.1	<0.05	12	0.9	<0.2
STD OXD108	Standard																		
STD OXI121	Standard																		
STD OXN117	Standard																		
STD DS10 Expected		0.073	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREA945EA Expected		0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
STD OXD108 Expected																			
STD OXN117 Expected																			
STD OXI121 Expected																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
ROCK-WHI	Prep Blank	0.041	5	6	0.57	50	0.065	<20	0.86	0.066	0.08	0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (804) 253-3158

Client: **William Koe-Carson**  
Box 387  
White Fox SK S0J 3B0 CANADA

Submitted By: William Koe-Carson  
Receiving Lab: Canada-Whitehorse  
Received: August 07, 2015  
Report Date: September 03, 2015  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI15000155.1

### CLIENT JOB INFORMATION

Project: McConnell  
Shipment ID:  
P.O. Number  
Number of Samples: 1

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: William Koe-Carson  
Box 387  
White Fox SK S0J 3B0  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	1	Crush, split and pulverize 500g rock to 200 mesh			WHI
F8631	1	Metallic Sieve 500g to 150 mesh			VAN
Split +150 mesh	1	Analysis sample split/packet			VAN
Split -150	1	Analysis sample split/packet			VAN
F8631	1	Metallics Fire Assay for Au	30	Completed	VAN
AQ200	1	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	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. Bureau Veritas 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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Client: **William Koe-Carson**  
Box 387  
White Fox SK S0J 3B0 CANADA

Project: McConnell  
Report Date: September 03, 2015

Page: 2 of 2

Part: 1 of 3

## CERTIFICATE OF ANALYSIS

WHI15000155.1

Method	WGHT	M160	FA430	F8800	F8800	F8800	F8800	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200
Analyte	Wgt	TotWt	-Au	TotAu	+Au	+Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	
Unit	kg	g	gm/t	gm/t	gm/t	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	
MDL	0.01	1	0.006	0.01	0.17	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.6	0.6	0.1	1	0.1	
15605	Rock	0.69	504	4.825	4.98	7.61	28.90	1.5	257.9	500.8	10	3.4	7.6	69.1	136	21.02	>10000	6289.4	0.9	9	0.1

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Client: **William Koe-Carson**  
Box 387  
White Fox SK S0J 3B0 CANADA

Project: McConnell  
Report Date: September 03, 2015

Page: 2 of 2

Part: 2 of 3

## CERTIFICATE OF ANALYSIS

WHI15000155.1

Method	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	
Analyte	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Se	Tl	S	Ga	
Unit	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	
MDL	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.06	1	
15606	Rock	125.0	357.1	<2	0.01	0.011	8	4	<0.01	65	<0.001	<20	0.04	0.002	0.05	<0.1	0.02	0.3	<0.1	6.98	<1

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**Client:** William Koe-Carson  
Box 387  
White Fox SK S0J 3B0 CANADA

**Project:** McConnell  
**Report Date:** September 03, 2015

**Page:** 2 of 2

**Part:** 3 of 3

## CERTIFICATE OF ANALYSIS

WHI15000155.1

	Method	AG200	AG200
		Se	Te
Analyte		ppm	ppm
Unit		ppm	ppm
MDL		0.6	0.2
15606	Rock	8.3	0.2

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**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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PHONE (804) 253-3158

Client: **William Koe-Carson**  
Box 387  
White Fox SK S0J 3B0 CANADA

Project: McConnell  
Report Date: September 03, 2015

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Part: 2 of 3

## QUALITY CONTROL REPORT

WHI15000155.1

Method	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	
Analyte	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Se	Tl	S	Ga	
Unit	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	
MDL	0.1	0.1	2	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	
<b>Reference Materials</b>																					
STD D810	Standard	10.0	12.6	42	1.05	0.078	17	55	0.76	420	0.077	<20	0.98	0.064	0.33	2.9	0.33	2.8	5.1	0.28	4
STD OREAS45EA	Standard	0.4	0.3	302	0.04	0.028	7	834	0.09	146	0.098	<20	3.08	0.016	0.05	<0.1	<0.01	76.5	0.1	<0.05	12
STD OKD108	Standard																				
STD OXI121	Standard																				
STD OXN117	Standard																				
STD OXP91	Standard																				
<b>STD OXP91 Expected</b>																					
STD D810 Expected		8.23	11.65	43	1.0625	0.073	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3
STD OREAS45EA Expected		0.32	0.26	303	0.036	0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4
BLK	Blank																				
BLK	Blank	<0.1	<0.1	<2	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1
BLK	Blank																				
BLK	Blank																				
<b>Prep Wash</b>																					
ROCK-WHI	Prep Blank	<0.1	<0.1	19	0.49	0.040	5	3	0.45	52	0.064	<20	0.88	0.076	0.09	<0.1	<0.01	2.5	<0.1	<0.05	3

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Part: 3 of 3

## QUALITY CONTROL REPORT

WHI15000155.1

Method	Analyte	AQ200	
		Se	Te
Unit		ppm	ppm
MDL		0.6	0.2
<b>Reference Materials</b>			
STD D810	Standard	2.0	5.2
STD OREAS4SEA	Standard	0.9	<0.2
STD OXD108	Standard		
STD OXI121	Standard		
STD OXN117	Standard		
STD OXP91	Standard		
STD OXP91 Expected			
STD D810 Expected		2.3	5.01
STD OREAS4SEA Expected		0.78	0.07
BLK	Blank		
BLK	Blank	<0.5	<0.2
BLK	Blank		
BLK	Blank		
<b>Prep Wash</b>			
ROCK-WHI	Prep Blank	<0.5	<0.2

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**Appendix 5**

**Claims List**

District	Grant Number	Claim Name	Claim Nbr	Claim Owner	Staking Date	Expiry Date	Status
Mayo	YD16701	McConnells Jest	1	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16702	McConnells Jest	2	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16703	McConnells Jest	3	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16704	McConnells Jest	4	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16705	McConnells Jest	5	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16706	McConnells Jest	6	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16707	McConnells Jest	7	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16708	McConnells Jest	8	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16709	McConnells Jest	9	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16710	McConnells Jest	10	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16711	McConnells Jest	11	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16712	McConnells Jest	12	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16713	McConnells Jest	13	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16714	McConnells Jest	14	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16715	McConnells Jest	15	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16716	McConnells Jest	16	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16717	McConnells Jest	17	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16718	McConnells Jest	18	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16719	McConnells Jest	19	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16720	McConnells Jest	20	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16721	McConnells Jest	21	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16722	McConnells Jest	22	William (Bill) Koe'-Carson - 100%	5/21/2010	5/1/2020	Active
Mayo	YD16723	McConnells Jest	23	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16724	McConnells Jest	24	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16725	McConnells Jest	25	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16726	McConnells Jest	26	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16727	McConnells Jest	27	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16728	McConnells Jest	28	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16729	McConnells Jest	29	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16730	McConnells Jest	30	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16731	McConnells Jest	31	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16732	McConnells Jest	32	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16733	McConnells Jest	33	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16734	McConnells Jest	34	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16735	McConnells Jest	35	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16736	McConnells Jest	36	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16737	McConnells Jest	37	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16738	McConnells Jest	38	William (Bill) Koe'-Carson - 100%	7/9/2010	5/1/2020	Active
Mayo	YD16739	McConnells Jest	39	William (Bill) Koe'-Carson - 100%	7/10/2010	5/1/2020	Active
Mayo	YD16740	McConnells Jest	40	William (Bill) Koe'-Carson - 100%	7/10/2010	5/1/2020	Active









Mayo	YD126897	McConnells Jest	170	William (Bill) Koe'-Carson - 100%	2/2/2011	5/1/2020	Active
Mayo	YD126898	McConnells Jest	171	William (Bill) Koe'-Carson - 100%	2/1/2011	5/1/2020	Active
Mayo	YD126899	McConnells Jest	172	William (Bill) Koe'-Carson - 100%	2/1/2011	5/1/2020	Active