Placer Gold Microchemical Characterization And Shape Analysis Applied As An Exploration Tool In Western Yukon

by

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Abstract

Western Yukon is underlain by metamorphic, extrusive and intrusive rocks that are associated with a variety of orogenic, epithermal and porphyry-style mineral occurrences. This region is unglaciated, exhibits poor bedrock exposure and contains abundant and, in some cases, unusually rich residual placer gold deposits. The methodology employed here involves the analysis of gold alloy composition and gold inclusion mineralogy using SEM-based techniques (microchemical characterization), in addition to quantitative morphological studies that utilize image analysis. Integration of this information with data from conventional exploration techniques provide: (1) better characterization of the diversity of gold types derived from bedrock sources (multiple sources vs. variation within a single source); and (2) information on source location.

Compositional analyses have been collected for 4,100 placer gold grains, of which 2,989 grains have been analyzed for both morphological and compositional data. Placer gold samples were collected from 33 localities from five major drainages: Henderson, Tenmile and Thistle creeks (White Gold District) and Mechanic, Revenue and Seymour creeks (Dawson Range). This study applies the shape evolution model of Crawford (2007) in several drainages in western Yukon to generate statistical predictions of source locations. Furthermore, through refinements made during this study, computational processes involved in this analysis are now automated through the development of new computer software.

Correlation of the nature and extent of compositional variation within *in situ* gold from the White Deposit area with that of the associated placers, has allowed the confident prediction that similar mineralization is present in the Thistle Creek drainage. Regionally, most orogenic placer gold may be characterized as either As-bearing (e.g. Tenmile and Sixtymile creeks) or Te-bearing (e.g. Thistle Creek). Gold from Eureka Creek has been reclassified as orogenic as a consequence of characterizing the range of regional orogenic gold signatures.

Mechanic and Revenue creeks gold exhibit a diagnostic Pb-Bi sulphide, bismuthinite (Bi_2S_3) and tetradymite assemblage, a mineral association observed within the Nucleus-Revenue Au-Cu

porphyry deposit located in their headwaters. This gold type is observed surrounding additional Au-Cu porphyry systems (Casino and Sonora Gulch) that belong to a common metallogenic event in early Late Cretaceous time.

Preface

The thesis is structured into seven chapters describing the results of four main research topics that are intended for outside publication. Each chapter includes research contributions from different authors and the contributions from these authors are outlined in detailed here.

Chapter 1: Introduction

Project preface and thesis structure.

Chapter 2: Previous Work

Summary of the development of the techniques used in this study, and discussion of previous placer gold studies conducted in this region.

Chapter 3: Methodology

Description of the methodology used in this study.

Chapter 4: Integrated Microchemical Characterization And Morphological Analysis Of Placer Gold As An Exploration Tool: Application In An Area Of Active Exploration

Application of placer gold studies as an exploration tool

Contributions from:

Tim Wrighton; Morphological and compositional data (alloy composition) of placer gold

Evan Crawford; Initial development of the 'shape evolution model'

Dr. Rob Chapman; Placer gold inclusion assemblages and regional context of microchemical signatures

Dr. Jim Mortensen; Geology and metallogeny

Dr. Murray Allan; Conceptual computer program design; structural interpretations; lode occurrence descriptions

John Hsu; Computer Programmer

Pan Luo; Computer Programmer

Chapter 5: Reconnaissance Study Of Placer Gold From Within The Dawson Range: Intrusion Related Gold

Tim Wrighton; Morphological and compositional data (alloy composition)

Dr. Rob Chapman; Placer gold inclusion assemblages, characterization of lode gold samples (Nucleus zone), regional context of microchemical signatures

Dr. Jim Mortensen; Geology and metallogeny

Dr. Murray Allan; Structural interpretations; lode occurrence descriptions; petrographic description of lode gold

Chapter 6: Variations In Microchemical Signatures Of Placer Gold In The Yukon-Tanana Terrane

A regional overview of placer microchemical signatures observed thus far.

Tim Wrighton; morphological and compositional data (alloy composition)

Dr. Rob Chapman; Placer gold inclusion assemblages, regional context of microchemical signatures, study of lode gold samples in the White Gold area

Dr. Jim Mortensen; Geology and metallogeny

Leif Bailey; Geology and mineralization of the White Gold property

Matias Sanchez; Structural Interpretation

Dr. Murray Allan; Geology and metallogeny; lode occurrence descriptions

Chapter 7: Final Remarks And Future Work

An evaluation of both shape analysis and a regional overview of placer gold microchemical signatures observed thus far, in addition to suggestions for future work.

Tim Wrighton; morphological and compositional data (alloy composition)

Dr. Rob Chapman; Placer gold inclusion assemblages, regional context of microchemical signatures, study of lode gold samples in the White Gold area

Dr. Jim Mortensen; Geology and metallogeny

Leif Bailey; Geology and mineralization of the White Gold property

Dr. Murray Allan; Geology and metallogeny; lode occurrence descriptions

William LeBarge; Contribution of placer gold samples.

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List Of Abbreviations

YGP……Yukon Gold Project

HSF……Hofmann Shape Factor

LIF ……..Lithium Fluoride

PET ……Pentaerythritol

Pyr ……..Pyrite

Asp ……Arsenopyrite

Cp ……Chalcopyrite

Ga ……Galena

Ba ……Barite

Qtz ……Quartz

Bi-Te ……..Undetermined Bismuth Telluride

Ag-Te …….. Undetermined Silver Telluride

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Thank you to all the sponsors of the Yukon Gold Project who made this project financially possible. To the Yukon Gold Project staff, especially Dr. Murray Allan, who provided support in terms of field work, tutoring, project meetings and reports.

I would like to give a special thank you to my supervisors Dr. Rob Chapman and Dr. Jim Mortensen for project support and editing, but in particular for their love of the Yukon, gold panning and beer.

Dedication

To my parents…

1 Introduction

1.1 Project Preface

The Yukon Gold Project (YGP) was initiated by the Mineral Deposit Research Unit (MDRU) at the University of British Columbia (UBC) in response to a dramatic increase in gold exploration activity in west-central Yukon in 2009. Exploration success at the White Gold and Coffee properties initiated a modern day gold rush to acquire prospective ground within the newly defined White Gold District (Fig. 1.1). The Yukon Gold Project aimed to extend the knowledge of the geological, structural and metallogenic evolution of the White Gold District in order to inform future exploration activity. The project area covers the White Gold, Dawson Range, Klondike areas and stretches to the north and west to include the Sixtymile and Fortymile areas (Fig. 1.1).

One aspect of the Yukon Gold Project was to develop and refine the use of placer gold studies as an exploration tool. Extensive studies of placer gold have previously been conducted in the Klondike and Indian River drainages (Chapman et al., 2010a; Chapman et al., 2010b; Chapman et al., 2011), in addition to unpublished studies of placer gold from throughout the region. This study forms part of a larger collaborative project which builds on existing data and aims to extend the knowledge of regional placer gold signatures across the study area.

The western Yukon is an ideal location to conduct placer gold studies as the area is unglaciated, exhibits poor bedrock exposure and contains abundant and, in some cases, unusually rich placer gold deposits. Therefore, any information gained from placer gold studies generates information of potential value to future lode gold exploration. The unglaciated nature of western Yukon provides an ideal environment to apply both detailed gold characterization and morphological studies because the placer deposits are all residual placers. No glacial dispersion has affected the area and therefore the lode gold source(s) to any particular placer deposit must be confined within the limits of the current drainage, which permits direct comparison of lode occurrences and placer gold signatures.

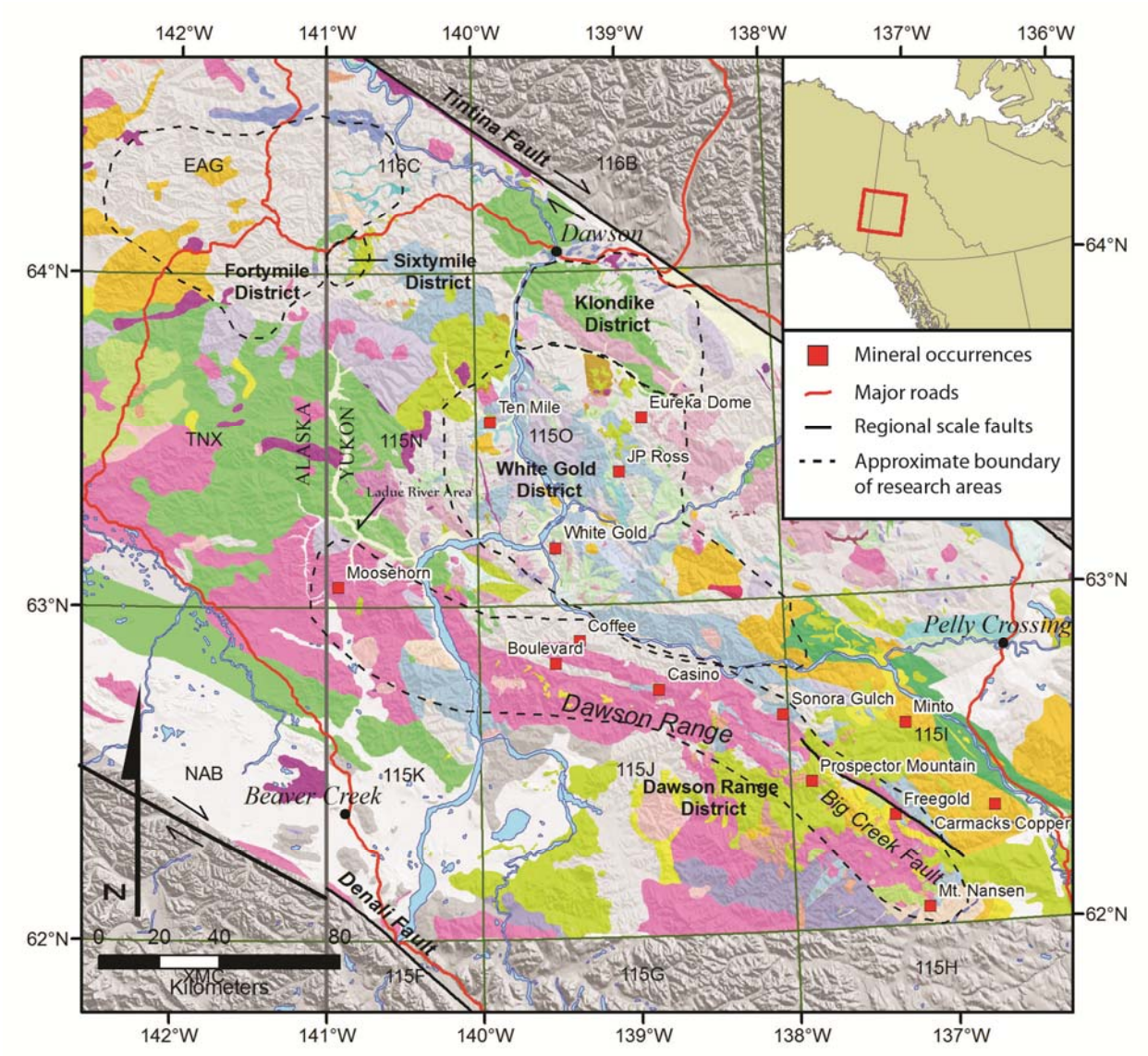


Figure 1. 1: District scale map of the study area (Allan et al., 2012a). Dashed black lines define the five main placer mining districts.

1.2 Project Aims

This study has three broad aims that contribute toward the larger research project:

1) to develop a comprehensive understanding of the variation in mineralogy of placer gold from throughout the study area through integration of new data with that from previous studies;
2) to develop the methodology of linking gold grain morphology with transport distance (the shape evolution model);

3) to synthesize compositional and morphological studies and explore their application in the exploration process.

1.3 Anticipated Results

The main results that were anticipated to come out of the study include:

1) a refined method of applying the shape evolution model across drainages of the unglaciated portion of western Yukon;

2) development of new computer algorithms to significantly reduce the processing time of quantitative morphological analysis of gold grains;

3) a regional overview of the current knowledge of placer gold grain signatures across western Yukon; and

4) a comparison of gold grain signatures derived from orogenic and intrusion-related lode gold sources in western Yukon.

2 Background Information

2.1 Regional Geology

The Yukon-Tanana terrane (YTT) is bound by both the Tintina and Denali faults in western Yukon and eastern Alaska (Fig. 1.1). The area exhibits a complex tectonic and magmatic history that took place within an overall convergent tectonic setting along the northwestern margin of the Laurentian craton (Mortensen and Allan, 2012). The northeastern portion of the Yukon-Tanana terrane in the study area is dominated by greenschist to amphibolite facies metamorphic rocks of Paleozoic age and is locally overlain by Late Cretaceous volcanic rocks of the Carmacks Group. The southwestern portion of the YTT in the Dawson Range (Fig. 1.1) has been intruded by middle to Late Cretaceous plutonic rocks, which are associated with a variety of porphyry and epithermal-style mineral occurrences.

2.2 Mineralization Events

The YTT records a least ten discrete hypogene mineralization events, each with its own set of mineralization style(s), spatial and temporal distribution, and structural setting. Described here are the mineralization events that contain a significant amount of gold and may have contributed to placer deposits throughout the project area. These events are discussed from oldest to youngest and form a framework within which to compare the mineralogy of placer and lode gold grains regionally in relation to known styles and ages of mineralization.

Late Permian

Late Permian metaplutonic and metavolcanic rocks were emplaced into and on the mid-Paleozoic rock units of the YTT. These rocks exhibit two pervasive ductile fabrics formed during peak metamorphism in the Late Permian (Beranek and Mortensen, 2011). The mainly metavolcanic Klondike schist member of the Klondike assemblage contains variable amounts of disseminated to locally semi-massive Pb-Zn-Cu-Au-Ag mineralization that has been inferred to be syngenetic in origin (Mortensen et al., 2006). This style of mineralization is represented regionally in the Klondike District, Sixtymile District, and Ladue River area (Fig. 1.1). In the Klondike District, disseminated gold mineralization within the Klondike schist may represent a

significant component of the economic gold potential beyond that for orogenic style gold mineralization (MacKenzie et al., 2008; see later discussion).

Late to post-metamorphic, crustally-derived magmatism in latest Permian time (253-252 Ma) is marked by the scattered emplacement of plutonic rocks (Jim Creek and Teacher plutons) in addition to several dikes in the White Gold area, and volumetrically minor dikes in the Blackhills Creek area (Beranek and Mortensen, 2011; Jones, 2012). The Teacher showing at the White Gold property returned assays of up to 5.8 g/t Au and is characterized by quartz, galena and stibnite veins that crosscut latest Permian feldspar porphyry of this magmatic suite (Papageorge and Pautler, 1999).

Early Jurassic

A suite of Late Triassic to Early Jurassic intrusions (220-179 Ma) occur in a northwest trending continental arc extending from the Carmacks area to eastern Alaska. The main examples of Early Jurassic mineralization associated with this suite of intrusions include the Minto and Carmacks Copper copper-gold deposits (Tafti and Mortensen, 2004). Another possible example of Early Jurassic intrusion-related mineralization is the Tenmile gold occurrence (located on the lower Sixtymile River; Fig. 1.1), which is hosted by, and has been speculated to be genetically related to, the Early Jurassic Tenmile pluton (Pautler, 2012).

Middle to Late Jurassic

One or more regionally-extensive orogenic gold mineralization events have been confirmed by field and geochronological studies in the White Gold, Henderson Creek area and Klondike districts (Allan et al., in review; Mortensen, unpublished data; Bailey, 2013). This mineralizing episode is also inferred to extend to the west to the Sixtymile and Fortymile districts. Importantly, Bailey (2013) demonstrated the ~1.5 Moz Golden Saddle deposit to be part of this Late Jurassic orogenic gold event based on geological evidence and ~163-155 Ma Re-Os ages for molybdenite associated with gold mineralization. These ages from the White Gold deposit and surrounding area correlate with U-Pb ages from hydrothermal rutile (Mortensen, unpublished data) and Ar-Ar ages from hydrothermal muscovite from gold bearing orogenic veins in the Klondike District (Mortensen, unpublished data).

Orogenic gold in western Yukon typically occurs in brittle-ductile to brittle structures that include quartz-sulphide veins, shears, stylolites and breccias. Gold occurs in a wide range of host rocks, and exhibits a variety of metal associations (Allan et al., in review). Recent exploration activity in the White Gold District suggests that highest gold grades are associated with zones of structural reactivation and brecciation, and are developed preferentially in felsic metaplutonic or quartzitic rock units (Bailey, 2013). In particular, orogenic gold mineralization in the White Gold District is controlled by east-west trending fault structures.

mid-Cretaceous

Structurally-hosted gold systems are observed within and immediately adjacent to mid-Cretaceous intrusions of the Dawson Range and Moosehorn Range, and appear to range in age from 96-92Ma (Joyce, 2002; McKenzie et al., 2013). This style of mineralization was first documented in the Moosehorn Range, where granodiorite hosted lode gold occurrences are interpreted to have fed placer gold bearing streams. These gold bearing veins are interpreted to be orogenic in nature, based on geochronological and Pb isotopic arguments (Joyce, 2002; Joyce and Mortensen, unpublished data). Recently, mineralization at the Boulevard property in the Independence Creek area (McKenzie et al., 2013) and on the Coffee Creek property have been interpreted to be part of this mid-Cretaceous orogenic gold episode.

early Late Cretaceous

This pulse of magmatism (79-72 Ma) is confined to a narrow, 120 km long, northwest-trending belt that is associated with several economically important porphyry systems (Fig. 1.1). These deposits include Casino and Revenue-Nucleus.

late Late Cretaceous

A second pulse of Late Cretaceous magmatism lasted from approximately 72-67 Ma, and coincided with the eruption of the regionally extensive 72-69 Ma Carmacks Group volcanic rocks. Porphyry-style prospects associated with this event include Mt. Cockfield (Cu-Mo), an unmapped porphyry stock drilled by Radius Gold Inc. in the Sixtymile River valley and the X-Man porphyry occurrence within the Henderson Creek drainage (Allan et al., in review).

Key Findings

One of the most important findings of the Yukon Gold Project has been the recognition of a regionally widespread Middle to Late Jurassic orogenic gold event that includes economically important gold mineralization in the White Gold District, as well as the lode sources of rich historical placer areas in the Klondike and Sixtymile districts. The early Late Cretaceous metallogenic event (79-72 Ma) in the Dawson Range appears to be the most prospective for porphyry-style mineralization, and exhibits both oxidized, Cu-rich systems (e.g., Casino), and more reduced, Au-rich systems (Nucleus and Revenue deposits).

2.3 Deposit Model Variability

The YGP project has established a major phase of orogenic gold mineralization in Middle to Late Jurassic time. This age of mineralization was interpreted on the basis of $^{187}Re/^{187}Os$ dating of molybdenite (Bailey, 2013), which corresponds to a time period of no known magmatic activity. Characteristics of this gold mineralization (such as molybdenite mineralization and K-feldspar alteration) are not commonly reported features of orogenic-style mineralization. However, the mineralogical signature of the White Gold deposit (presented in Chapter 6), in addition to detailed pre-existing studies (including lode gold studies) in the Klondike District, form a template for consideration of placer signatures in areas where the style of source mineralization is less clear.

The variability within these styles of mineralization generates additional complicating factors to consider when interpreting the inclusion mineralogy of gold, and further indicates the need to correlate placer gold populations with the local associated lode gold sources.

2.4 History Of Placer Gold Studies

2.4.1 Morphological Studies

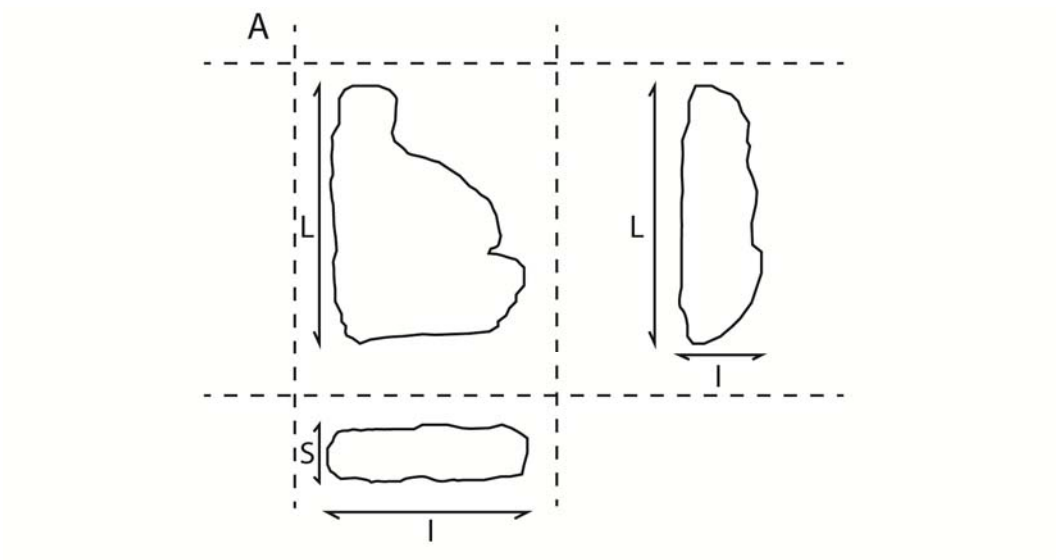
In early studies, the morphology of placer gold grains was determined qualitatively; grains that displayed characteristic features were interpreted to reflect differing amounts of fluvial transport. However, in the 1990s advances in morphological studies began to take a more statistical approach. Knight et al. (1999a) were some of the first to approach placer gold morphology statistically. They used a semi-quantitative classification system in which grains

were assigned a numerical value, making it possible for the results to be analyzed using conventional statistics. Youngson and Craw (1999) utilized the Caillex flatness index to identify morphological changes during transport of gold grains. These studies, however, were restricted by the amount of time required to manually record shape data for individual grains. Townley et el. (2003) identified general characteristics of gold grain morphology (general shape, outline, surface, primary crystal imprints, associated minerals, flatness index), which were indicative of transport distance. These authors provided class intervals of transport distance which spanned 0-50m, 50-300m and >300m.

The method of statistically analyzing placer gold grain morphology was greatly improved through the work of Crawford (2007), who developed a rapid, accurate and reproducible way of collecting 3-dimensional grain shape data. Prior to this advance, measurable shape parameters were based on the three principle axes of a best fit ellipsoid; however, Crawford's work made it possible to determine additional grain shape parameters that had previously been impossible to collect using a manual method. Crawford's method was based on an ImageJ Plugin developed by Crawford (2007; Crawford and Mortensen, 2009), which allowed for the collection of morphological information on an individual grain basis. Crawford's (2007) work was based on a focused study in the Klondike District in western Yukon, especially the Eldorado and Bonanza Creek drainages. The Klondike District is a rich, but geologically relatively simple placer gold district in which the heavily mined placer gold paystreaks can be linked with considerable confidence to individual, localized lode sources (e.g., Chapman et al., 2010a, b). Because of this the Klondike District affords an excellent study area in which to systematically evaluate the evolution of gold grain shape during fluvial transport.

Crawford's (2007) model for calculating the transport distance of placer gold grains used an established morphological parameter (defined by Crawford (2007) as the Hofmann shape entropy (HSE); Hofmann, 1994) to document the change of gold grain morphology with alluvial transport. Prior to Crawford's work, no researcher had established a single morphological parameter that best described the morphology of placer gold grains. In Crawford's study, three shape factors were analyzed to determine which parameter best represented gold grain morphology; Hofmann shape entropy, Cailleux and Corey shape parameters. All three shape factors use the three principle axes to describe the grain shape and represent the change of a

spherical object into a circular disc. However, the three factors employ different mathematical functions to describe grain shape (Fig. 2.1). The assumption made by using these shape factors is that the major morphological change qualitatively experienced by a placer gold grain during transport, is an evolution from a spherical object (nugget) into a flattened disc (flake). In order to identify small changes in morphology with transport, the ideal shape factor would display the greatest contrast between shape factor values calculated for a spheroid compared to a flattened disc. The Hofmann shape entropy was observed to display the greatest contrast between these two theoretical shapes and was therefore used in the development of the shape evolution model.



B

Shape Factor	Range	Formulae
Caillex Shape Factor (Flatness Index)	1 - ∞	(L+I)/2S
Corey Shape Factor	0 - 1	S/√LI
Hofmann Shape Entropy	0 - 1	-1[(PL Ln PL)+(PI Ln PI)+(PS Ln PS)]/1.0986

Figure 2. 1: (a) The three principle axes used in the calculation of grain shape (long (L), intermediate (I) and short (S)). (b) Table of shape factors evaluated by Crawford (2007). P is the proportion of each principle axis and 1.0986 is the maximum relative entropy possible for a three component system.

Preliminary models for the shape evolution model directly related HSE to horizontal map distance (km), in order to observe the change in placer gold grain morphology during transport (Fig. 2.2). This method was an improvement on previous models; however, the significant scatter in the results precluded a quantifiable relationship between transport distance and grain shape. The revised shape evolution model resulted from a detailed investigation of how stream gradient affected the rate of change of placer gold grains with transport. Intuitively, higher gradient streams represent higher energy environments, in which shape modification would be expected to occur more rapidly with transport. Crawford (2007) integrated the effect of gradient into the shape evolution model by generating a distance factor that was dependent on stream gradient. The new parameter was referred to as the Gradient Modified Transport Distance (GMTD; Equation 2.1).

$$GMTD = \left[\left(\frac{1}{1 + e^{(-A*(S-B))}}\right)\left(\frac{S}{100}\right)\right]^{C} * D$$

Equation 2. 1: Gradient modified transport distance calculation (from Crawford, 2007).

In this equation, A, B and C are empirical parameters, 0.94, 8.96 and 1.09, respectively. S is the stream gradient in meters per kilometer and D is the horizontal (map) transport distance in kilometers.

Along any specific stream profile, the gradient upstream is non-linear. As the gradient changes within the stream profile, the rate at which shape modification occurs is expected to change simultaneously. Therefore, an averaged gradient value (calculated by using the total linear distance and the total elevation difference) between the sampling location and the lode source is an insufficient representation of the stream profile (Crawford, 2007). Better definition of the distance-to-source was calculated by summing the GMTD calculated for shorter sections. This approach resulted in a greatly improved correlation between the HSE and GMTD, and formed the basis for the shape evolution model as proposed by Crawford (2007; Fig. 2.3).

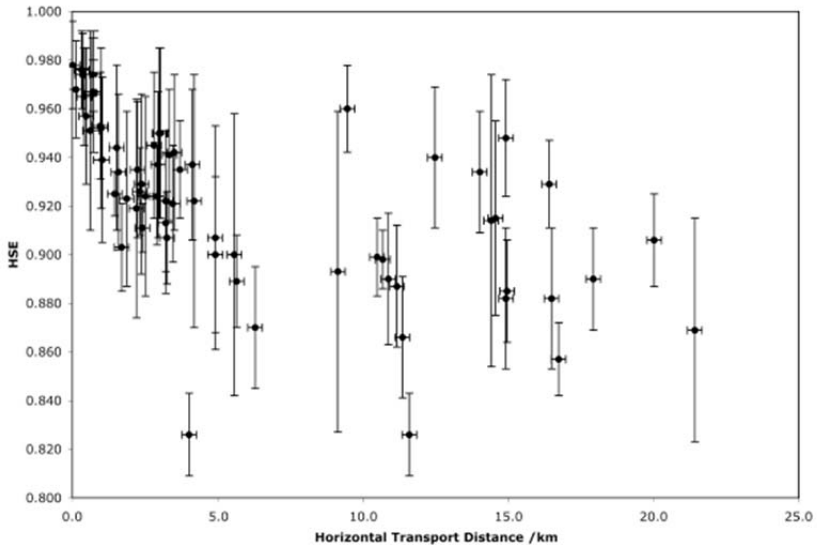


Figure 2. 2: Scattered relationship between HSE and horizontal transport distance for placer gold grains from the Klondike District (Crawford, 2007).

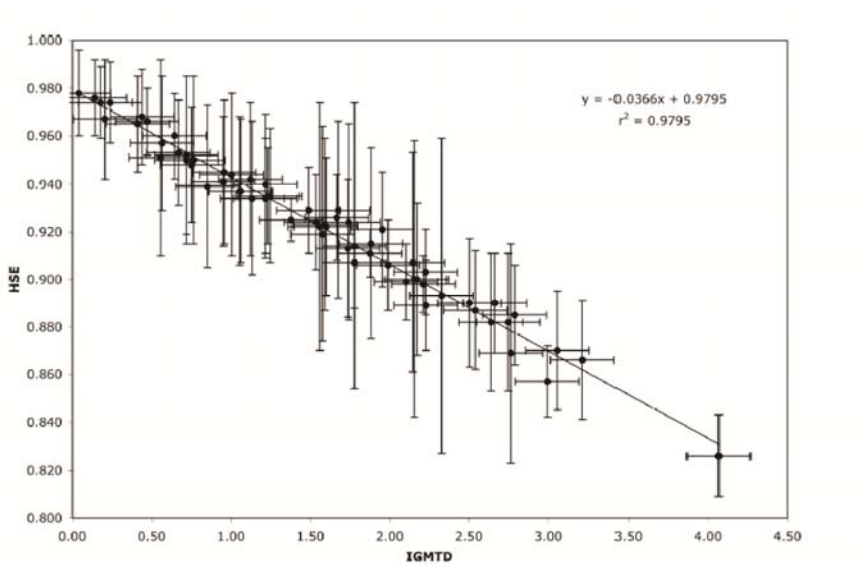


Figure 2. 3: Linear relationship between HSE and GMTD for placer gold grains from the Klondike District (Crawford, 2007).

The number of grains needed to accurately provide information for a population was also considered by Crawford (2007). It was concluded that ideally measurements of at least 50 grains were needed for each component population in order to generate a statistically meaningful GMTD.

Crawford's shape evolution model was subsequently tested in order to evaluate the technique's applicability. Variables such as gold grain composition, bedrock geology, and the

effect of armouring of grains (affecting very proximal placer gold samples) were assessed. The Au:Ag ratio was evaluated because pure gold is known to be softer than Au:Ag alloys; hence, it was thought that grains with low Ag contents might deform more rapidly under the same transport conditions. Crawford found that there was no consistent change in the result with increasing or decreasing Ag content. The effect of Hg and Cu within gold alloys was also evaluated; however, the effect these elements exerted at the observed concentrations was also statistically insignificant. Crawford then tested the effect of bedrock geology. The rock type over which the stream is flowing affects the geometry of the stream bed (e.g., smooth, rough, angular), in addition dictating the hardness of clasts with which a gold grain may collide. Furthermore, co-transported material depends on the underlying geology of the entire drainage. Crawford also concluded that this variable had a minimal effect. Inclusions are observed within placer gold grains, and in some cases, contain external inclusions (such as quartz) that may shield the grain from shape modification. Crawford's qualitative observation that external inclusions were rarely retained (in agreement with observations by Loen, 1993), and that removal of inclusions tended to occur during transport, with far travelled grains containing few, if any inclusions. Through evaluation of these various factors, it was concluded that factors other than stream gradient are of little importance.

This development in the use of placer gold morphology permitted the wider testing of the technique across the unglaciated western Yukon, in different fluvial regimes and most importantly in areas of where lode gold source(s) are still undiscovered.

2.4.2 Gold Grain Characterization

The history of application of gold grain compositional studies in exploration was discussed by Chapman et al. (2000). Initially studies focused on alloy composition alone to characterize populations of placer gold grains and to predict the presence of undiscovered sources (e.g., Knight et al., 1999b). Morisson et al. (1991) provided a general review of the alloy compositions of gold derived from different styles of mineralization, and discussed the link between mineralizing environments and alloy composition. Townley et al. (2003) refined this approach by correlating the Au-Ag-Cu compositions of alloys with gold grains derived from porphyry and epithermal environments. Gammons and William-Jones (1995) explored the controls on Au-Ag alloy composition in terms of the parameters which control their precipitation. These authors

showed that these controls vary according to Au and Ag speciation, and that changes in temperature, aH^+_{aq}, aHS^-_{aq}, aCl^-_{aq} and Au/Ag_{aq} content associated with the evolution of the hydrothermal system affect the alloy composition. Chapman et al. (2010a) applied these principles to demonstrate that a single hydrothermal system could generate Au-Ag alloys spanning a wide range of compositions.

Cu and Hg contents in gold alloy have also been used in the identification of compositional sub-populations. Hg occurs within natural gold at many localities (Boyle, 1979), commonly in measurable amount by EMP methods (e.g., Knight et al., 1999b; MacKenzie and Craw, 2005; Chapman et al., 2010a). Barnes (1979) and Krupp and Seward (1990) investigated the mechanisms of Hg transport and deposition in hydrothermal systems; however, the controls on the formation of Au-Ag-Hg alloys are still not well understood. Despite the limited understanding of these mechanisms, the presence of Hg is still considered to be a useful variable in geochemically fingerprinting specific lode sources (Mackenzie and Craw, 2005; Chapman et al., 2010a). In some areas, trace amounts of Cu are also present above the detection limit using electron microprobe methods. The controls on the partitioning of Cu into a gold alloy are also not understood; however, Moles et al. (in press) have suggested that the generation of gold containing measurable Cu is possible in an orogenic environment, and that the presence of Cu is therefore not necessarily diagnostic of a magmatic-hydrothermal system.

A pilot study of laser-ablation ICP-MS trace element analysis of placer gold from several locations in the Klondike District (Crawford, 2007) identified additional elements within gold alloys, including Cu, As, Bi, Te, Sn, and Pt. There is potential to use this technique to expand the range of elements that are detectable within gold alloys that can be incorporated into the technique of microchemical characterization.

Desborough et al. (1970) were the first to suggest that mineral inclusions contained in gold could be used to distinguish between different lode gold sources. However, the technique of microchemical characterization of gold grains developed by the British Geological Survey was the first to augment alloy compositional data with a systematic survey of mineral inclusion species revealed in polished thin section (Leake et al., 1992). The suite of opaque mineral inclusions (also referred to as the mineral inclusion assemblage) was shown to be indicative of

the mineralization coeval with gold precipitation (Chapman et al., 2000); however, it cannot be assumed that mineral inclusion assemblages are completely representative of the vein mineralogy of lode sources. The abundance of inclusions within polished sections varies between gold grains from different mineralizing events. Furthermore, inclusions are progressively obliterated during deformation of gold grains associated with fluvial transport (Loen, 1993). In general, at least ten inclusions are required to characterize a single population of gold grains, and this number rises with the number of sources which contribute to the placer inventory.

The technique used in this study to characterize both placer and lode gold grains involves the correlation of mineral inclusions with specific alloy compositions for a population of gold grains. This approach (in previous sections referred to as the 'mineralogical signature') is henceforth referred to as microchemical characterization. Application of microchemical characterization to populations of gold grains from the Klondike District allowed Chapman et al. (2010a,b) to identify diagnostic gold signatures which had not previously been identified by consideration of alloy composition alone (Knight et al., 1999a).

2.4.3 Combination Of Compositional And Morphological Approaches

A small number of studies have attempted to combine morphological characterization of placer gold grains with compositional studies. Youngson et al. (2002) combined morphological information and alloy composition of gold to identify two distinct sources for placer gold in the Nokomai River catchment, New Zealand. Townley et al. (2003) studied both gold grain morphology and compositional variation; however, these two types of analyses were conducted on different sample sets. Chapman and Mortensen (2006) correlated distinct compositional variation with differences in morphology (using the criteria of Townley et al., 2003) in placer gold grains collected from a single location in the Ochil Hills, Scotland. In this case, the criteria used for morphological classification was based on extremes of morphology (rounded, flaky gold and rough coarse gold with additional attached minerals). The development of a more sophisticated methodology for linking morphology to transport distance (Crawford, 2007) has permitted this study to develop an integrated morphological and compositional approach to the use of placer gold in an exploration context.

2.5 Previous Applications Of Placer Gold Studies In The Study Area

Summaries of several previous placer gold studies that have been conducted in the project area are presented here. These results must be considered when evaluating regional microchemical signatures, and hence, will be discussed in the context of additional samples collected during this study (see Chapter 6).

2.5.1 Klondike District

The Klondike District in west-central Yukon is one of the world's richest and most productive placer gold regions. Estimates for the total historic production for the Klondike District vary widely, but it is certain that over 10 Moz of placer gold have been recovered based on royalties paid to the government (e.g., Gleeson, 1970); however, this is generally agreed to represent a conservative amount.

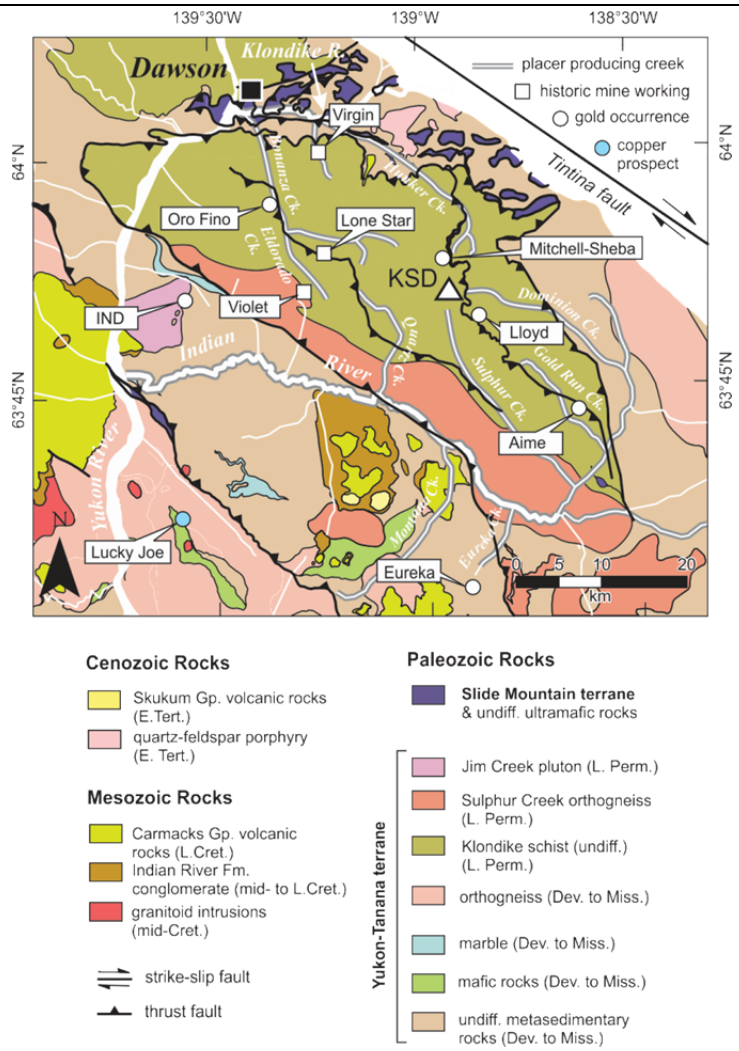


Figure 2. 4: Geological map of the Klondike District including the locations of known lode gold mineral occurrences; KSD = Kind Solomon Dome (Allan et al., in review). Projection: NAD 83 UTM zone 7N.

The area is underlain by a series of thrust panels that comprise metavolcanic, metasedimentary, and metaplutonic rock units of Devonian to Permian age (Fig. 2.4). Weakly deformed greenstone and serpentinized ultramafic rock occur along some of the thrust surfaces.

The Klondike District is unglaciated and therefore the distribution of placer gold has been controlled by erosion and fluvial dispersion as constrained by present-day drainage systems. The district contains numerous placer gold rich streams; however, these streams are not evenly distributed, which suggests that gold is derived from multiple centres of gold mineralization. Previous gold exploration activity in the area has led to various hypotheses for the source of placer gold in the Klondike District, which include locally disseminated gold mineralization

within the Klondike schist (Mortensen et al., 2006), in addition to numerous gold-bearing orogenic quartz veins formed during the Middle-Late Jurassic orogenic episode (Rushton et al., 1993; Allan et al., in review).

Chapman et al. (2010b) showed that three such hydrothermal systems could be identified in the central and northern Klondike, specifically in the Last Chance-Bear Creek, King Solomon Dome and Lone Star areas (Fig. 2.4). An additional gold type present in placer deposits of the southern Klondike District has subsequently been shown to be compatible with a zone of orogenic gold mineralization that is widespread in the Indian River valley and Black Hills Creek (Chapman et al., 2011).

The Lone Star area (Fig. 2.4) is interpreted to represent a spatially and temporally zoned hydrothermal system, roughly centred on the Lone Star occurrence (Chapman et al., 2010a,b). Based on previous work in this area, Knight et al. (1999b) recognised two distinct gold signatures from the Violet and Lone Star lode occurrences; low Ag-no Hg gold and high Ag-high Hg gold, respectively. Knight et al. (1999b) assumed that these signatures were unrelated; however, Chapman et al. (2010a), studied gold grains liberated from *in situ* auriferous veins and showed that both signatures were present within the same veins. Furthermore, the proportions of gold displaying these two signatures varied systematically with location. However, whilst the Ag content of gold alloys increased systematically with distance to the east and west of the Lone Star occurrence, Hg was absent in gold from the east of the area, but increased markedly to the west, to a maximum at the Violet occurrence (Fig. 2.4). The variation in alloy composition was also reflected in parallel systematic variation in the mineralogy of the inclusion assemblages. Base metal sulphide inclusions dominated gold grains populations from samples near the Lone Star occurrence, whereas hessite (Ag_2Te) and U bearing minerals were found in gold from 1-2 km away. High Ag gold, either with or without Hg, typically contained very few inclusions.

Systematic variation in Au-Ag alloy was also observed in the small placer gold region to the northeast of the Lone Star area, which included Last Chance Creek, Bear Creek and the Virgin lode occurrences. Here the same trend of increased Ag and Hg to the northwest was observed, which suggested that Hg deposition could be a consequence of changes in temperature and/or

pressure. The gold from this area was characterized by abundant arsenopyrite inclusions, which were absent in gold from the Lone Star area.

In conclusion, these studies were the first to show that discrete hydrothermal systems were the source of the gold in the Klondike area and that different microchemical signatures could be derived from a single mineralizing system. This is an important advance in understanding placer-lode relationships as until this point it had been assumed that each signature corresponded to separate mineralizing events (e.g., Chapman et al. 2000a).

2.5.2 Stewart River Drainage

The Black Hills and Eureka Creek drainages lie immediately to the south of the Klondike District (Fig. 2.4). The area is underlain mainly by a variety of greenschist to lower amphibolite facies metasedimentary and metaigneous rock units of the Yukon-Tanana terrane (Mortensen, 1996; Gordey and Ryan, 2005). These units have been intruded locally by felsic dikes and smalls stocks of Late Cretaceous to Paleocene age, and overlain by Early to Late Cretaceous coarse clastic rocks of the Indian River Formation and volcanic rocks of the Late Cretaceous Carmacks Group.

Black Hills Creek has been mined extensively and has been a substantial contributor to overall placer gold production of the Yukon. Table 2.1 describes the gold types present in the area according to the classification of Chapman et al. (2010a).

Table 2. 1: Classification of Gold Types

Gold Type	Ag (%)	Hg (%)	Cu (%)	Inclusion Assemblage
3a[a]	10-40	0-1.1	Nil	Inclusions rare. pyrite, base metal sulfides, sulfarsenides
4a[b]	10-70	0-11	Nil	Abundant polymetallic sulphides, sulfotellurides, and sulfosalts
5	5-20	Nil	0.05-0.17	Molybdenite, Bi-Te, Bi-S, Cr–bearing magnetite

[a]Chapman et al. (2010a)
[b]Chapman and Mortensen (2006)

Gold populations from Black Hills Creek exhibit two gold types (3a and 4a). Type 4a gold is present near the head of the creek, whereas type 3 gold is present in the middle and lower reaches (Fig. 2.5).

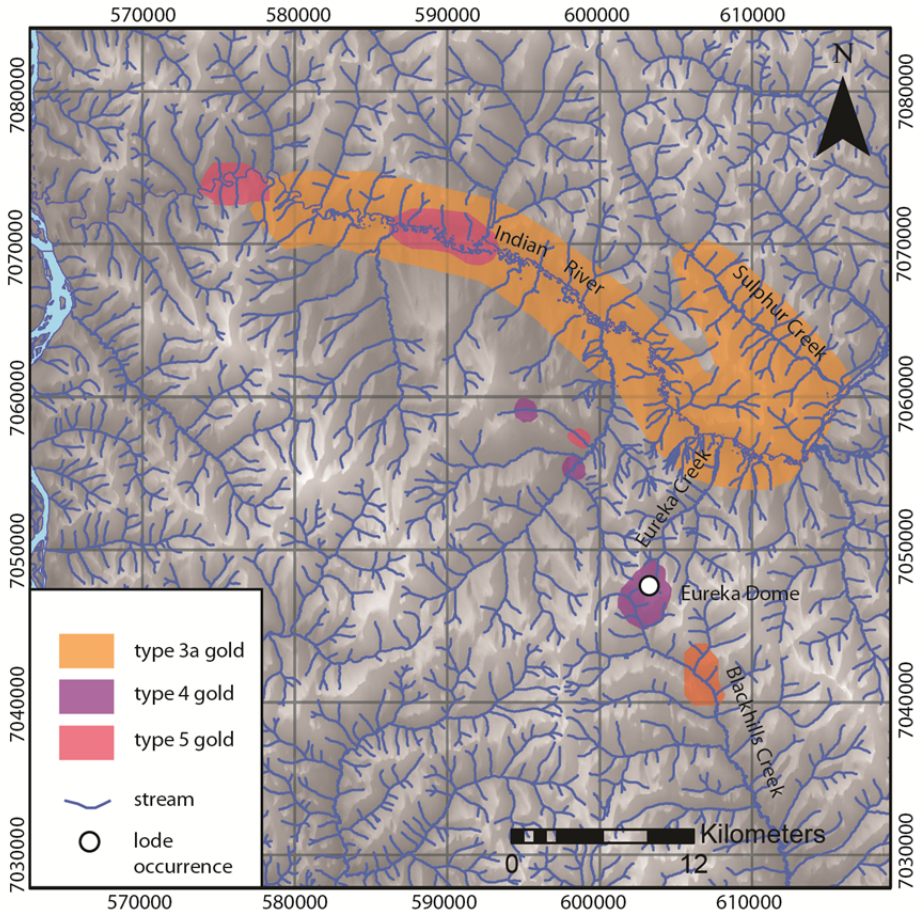


Figure 2. 5: Schematic diagram of the location of gold types (adapted from Chapman et al., 2011). Projection: NAD83 UTM zone 7N.

The signature observed in the left fork of Black Hills Creek (type 4a) is similar to that observed in the Eureka Dome area. Chapman and Mortensen (2006) studied placer and elluvial gold from Eureka Creek and the Eureka Dome lode occurrence. The microchemical signature of gold from Eureka Creek samples exhibited a considerably different microchemical signature to that observed in any previously studied orogenic gold. This signature contained high-Ag and high-Hg values in addition to polymetallic sulphides, tellurides and sulphotellurides (type 4a gold). These features, coupled with the proximity to Late Cretaceous Carmacks Group volcanic rocks, which are known to contain epithermal Au-Ag occurrences elsewhere in western Yukon, led these authors to postulate a low-sulphidation epithermal vein style lode source. An epithermal origin for Eureka Creek gold was also reported in a subsequent study of placer gold in the Indian River and Black Hills Creek drainages (Chapman et al., 2011), and a similar signature was observed in gold from upper Black Hills Creek, in close proximity to exposures of Carmacks

Group volcanics (Fig. 2.5). This study re-evaluates the connection between type 4 gold and low-sulphidation mineralization in the context of new placer gold datasets (see Chapter 7).

2.5.3 Moosehorn Range

The Moosehorn Range in located in the northwestern Dawson Range (Fig. 1.1), approximately 140 km south-southwest of Dawson City, Yukon. Gold mineralization present in this area comprises 93 – 92 Ma gold-bearing quartz veins (Joyce, 2002) that are hosted entirely within mid-Cretaceous intrusive rocks (Moosehorn Range granodiorite). These gold-bearing quartz veins are interpreted to have fed placer gold bearing streams. These intrusive rocks comprise the northwestern portion of the mid-Cretaceous Dawson Range batholith, which intrudes into metamorphic rocks of the YTT (Joyce, 2002).

Joyce (2002) determined that gold within these veins is paragenetically associated with sphalerite, galena and arsenopyrite. Deklerk and Traynor (2005) also observed minor stibnite, scheelite, chalcopyrite, pyrrhotite, molybdenite, malachite, azurite and bornite in these veins.

Chapman et al. (2012) studied placer gold from five creeks from the Moosehorn Range (Swamp, Roo, Mine, Soya and McArthur creeks) and observed a nearly coincident Ag content across all sample populations. These samples were also similar in terms of their inclusion assemblages, with an undetermined Pb-Sb-S mineral and arsenopyrite being the dominant inclusion species.

Dating and Pb isotopic studies by Joyce (2002) and Mortensen (unpublished data) indicates that the main gold-bearing veins in the southern and central part of the Moosehorn Range, which fed the main placer streams in the area, are orogenic in nature several million years younger than their intrusive host rocks, and therefore not genetically related.

The gold signature of all samples from the Moosehorn Range is internally consistent and appears to be distinct from any microchemical signature previously observed in the region. The signature of gold from the Moosehorn Range exhibits an As (arsenic) and Sb (antimony) dominant inclusion signature, As and Sb bearing inclusions are common components of orogenic gold microchemical signatures, but not the extent observed here.

3 Methodology

3.1 Sampling Strategy

Placer gold samples were collected using hand mining methods from three types of environment (active placer mining areas; previously mined areas; and unmined natural stream environments), each of which warranted a different approach to sampling. Sample locations were determined using a Garmin™ hand held GPS unit and the sedimentary environment was recorded (e.g., left limit, right limit). Gold grains were collected by hand shovelling gravel into a gravity-fed Le Trap™ sluice (Fig. 3.1). Sluicing was preferred over hand panning methods due to working in areas of low gold abundance. In some areas, where bedrock was exposed, a hand operated suction pump was used to retrieve gold from bedrock fractures (Fig. 3.2). The heavy mineral concentrate from each locality was hand-panned to separate the gold grains.

Figure 3. 1: Example of using a Le Trap™ river sluice.

Figure 3. 2: Example of using a suction pump (Dr. Rob Chapman).

The collection of sufficient gold grains was commonly difficult in areas where basal gravels were not preserved or exposed following mining operations. Consequently, the collection of gold samples in drainages which had either been mined out and remediated, or remained unmined proved the most challenging. In some cases, the time available constrained the number of samples collected and the number of gold particles contained within them.

In active placer mine areas, samples were collected from gravel in contact with bedrock, typically from active placer mining operations (aided by heavy machinery).

The selection of sampling sites within a previously mined area was critical to success. Usually, exposures of original gravel at the side of the channel were targeted. However, in many cases the valley sides had been completely excavated by mining or were inaccessible. In these cases, sampling focused on recently formed fluvial environments in which gold lost to tailings would be preferentially concentrated. These locations included bedrock imperfections (where accessible) or sedimentary environments which represented a transition from high to low energy fluvial conditions, usually identified by a high proportion of large cobbles.

In unmined stream environments a similar approach was employed. Natural river bars concentrating heavy material were the target areas for sample collection. Sample sites were

chosen by examining topographic maps and identifying areas where the stream valley was relatively narrow. In such areas, the relatively high water velocity can result in either bedrock exposure or relatively shallow depths of gravel.

When sampling *in situ* basal gravel, the gold grains collected were likely to be representative of the overall placer gold inventory; however, in mined areas, tailings commonly contain unrecovered gold grains which escaped collection from prior processing of gravels. Consequently, it is possible that collection of gold grains from mined areas could generate a population of grains that was not completely representative of the original size and shape distribution.

The vertical stratification of clast sizes within a fluvially transported load is a consequence of settling velocity (e.g., Knesebeck and Guardani, 2004). Settling velocity is also controlled by particle shape, with flaky particles behaving differently from their more equant counterparts of equal mass. This observation has two important implications for the current study. Firstly, the process of commercial gold processing in a sluice preferentially recovers the large, equant grains over thinner, less massive grains. Consequently, collection of gold grains from fluvially reworked tailings may yield a biased sample if the original basal gravel contained a wide range of grain morphologies. Secondly, various placer miners in western Yukon have reported that gold grains with different morphologies tended to accumulate in different parts of placer deposits as a consequence of small scale variation in sedimentary environment.

Chapman et al. (1996) measured the effect of gold grain shape and mass on recovery within a gravity recovery circuit. These authors demonstrated that the shape (as determined by the Corey shape factor) did not control the destination of gold particles in a flowing film concentrator. However, small, thin flakes were lost to tailings in preference to small equant grains.

Two tests were conducted to assess the effect of these biases. Several placer gold samples were collected by Dr. Rob Chapman on lower Dominion Creek in the southern Klondike District with the aim of quantifying the effect of sampling previously processed material. Gold was collected from unprocessed gold-bearing gravel (pay dirt) and from processed sluice tailings (sluice outflow). In a separate experiment, several gold samples were also collected from the

North Henderson Creek drainage across a stream profile (left limit, channel centre, right limit), in order to test the effect of sedimentary environment.

Tests were carried out to evaluate biases in terms of both composition and morphology (utilizing the Hofmann shape factor (HSF), previously defined by Crawford (2007) as the Hofmann shape entropy (HSE); new definition is described in Chapter 3.3). The pay dirt-sluice outflow test and the constraint on fluvial environment test were based on analysis of 149 and 262 placer gold grains, respectively.

3.1.1 Pay Dirt-Sluice Outflow Test

In this test three samples were analyzed: 1) pay dirt sample (1Ai – n = 73); 2) pay dirt (field duplicate) sample (1Aii – n =60); and 3) sluice outflow sample (1AS.D – n =16).

Calculated average and standard deviation (S.D.) of HSF in samples 1Ai, 1Aii and 1AS.D are 0.87 ± 0.04, 0.85 ± 0.04 and 0.85 ± 0.05, respectively. If samples 1 and 2 are combined, the HSF result is 0.86 ± 0.04. The average HSF and S.D. is observed to be marginally higher in the pay dirt samples compared to the sample of the sluice outflow.

Figure 3.3 displays the HSF values for the three samples and suggests that gold in the sluice outflow sample is slightly less spherical (in terms of HSF), which would result in a longer interpreted transport distance.

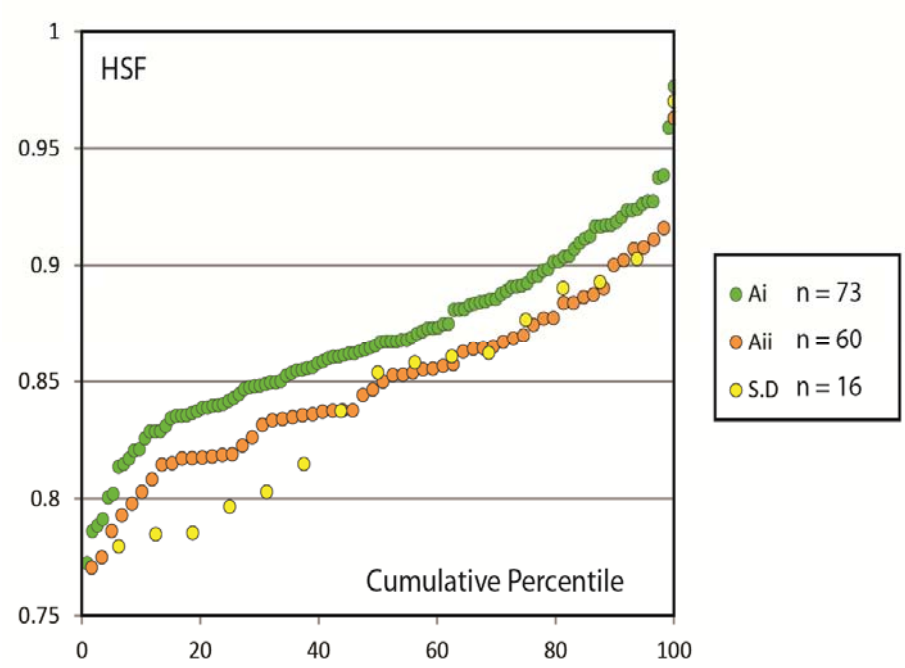


Figure 3. 3: HSF values for gold grains from samples for the pay dirt-sluice outflow test.

Figure 3.4 displays the compositional analyses for the samples. All three samples contain a similar variation in Ag content. Sample 1Ai is compatible with sample 1Aii, variation in Ag content between the two samples illustrates the natural variability present when collecting field duplicate samples. The sluice outflow sample is considered to lie within the tolerance level that reflects natural variability in samples and therefore does not appear to show significant bias in terms of Ag content. In all three samples, only two grains from sample 1Ai contained measurable amounts of Cu in the alloy (detection limit of 0.05% Cu); however, such alloys are uncommon and are therefore not considered to be indicative of a sampling bias. Similarly, only one grain from sample 1Ai contained measurable Hg (detection limit of 0.2% Hg).

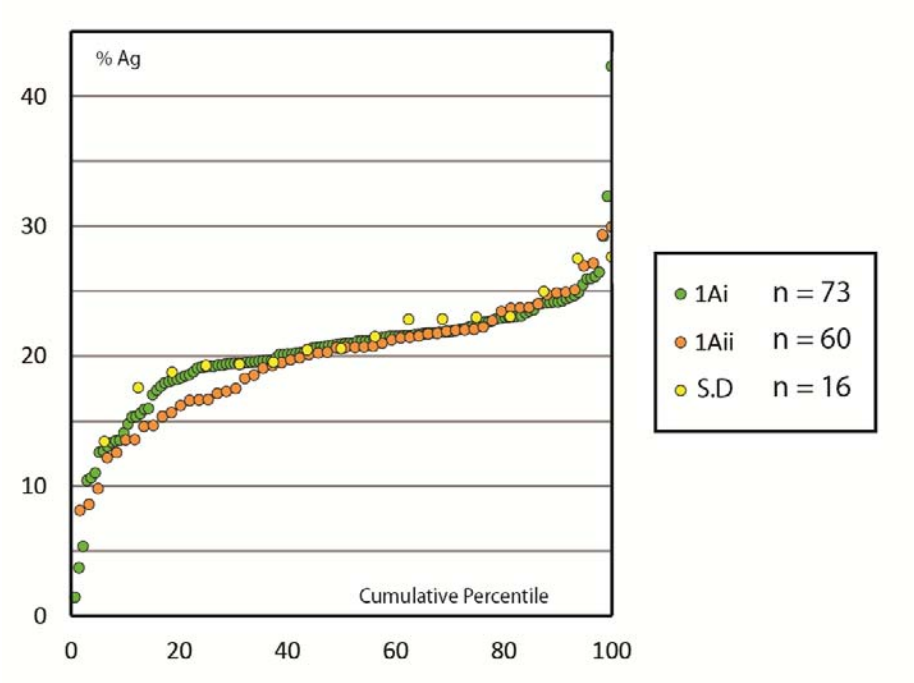


Figure 3. 4: Cumulative percentile plot Ag contents for placer gold for the pay dirt/sluice outflow test.

In this test along lower Dominion Creek, the large size of this drainage and placer gold inventory dominated by flakey morphologies (R. Chapman pers. comm.) may have tested the effect of mining on gold grain mass rather than morphology due to the lack of morphological contrast between possible gold grain morphologies. Strategic selection of a drainage that contains known contrasting morphological populations would be a significant improvement in the methodology to test this bias.

3.1.2 Constraint On Fluvial Environment Test

In this test four samples were taken along a transect across a stream: 1) left limit (Shape 1; n = 99); 2) centre (Shape 2; n = 57); 3) 5m from left limit (Shape 3; n = 33); and 4) right limit (Shape 4; n = 73). Each sample was collected from the bedrock-gravel interface at different locations within the stream environment.

The results of analyzing the HSF of samples 1, 2, 3 and 4 are 0.90 ± 0.04, 0.89 ± 0.05, 0.89 ± 0.04 and 0.88 ± 0.05, respectively. Figure 3.5 shows the distribution of HSF across the stream and demonstrates that sample location within this particular stream appears to make little difference to the overall result.

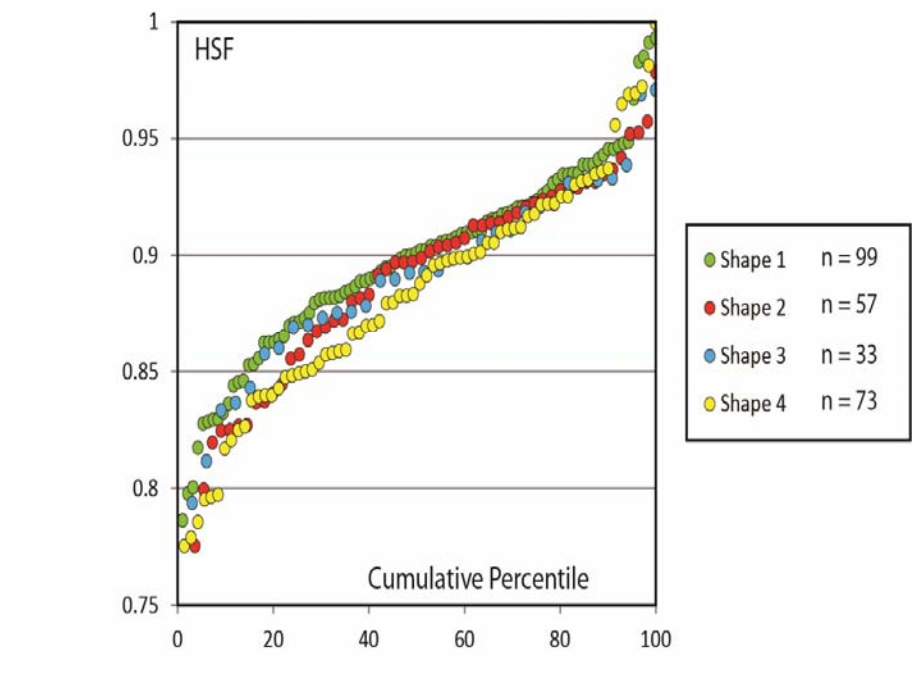


Figure 3. 5: Cumulative percentile plot of HSF values for the fluvial environment internal test.

Figure 3.6 displays the distribution of Ag contents for the sampling locations. All samples show a similar variation in Ag content. Sample 1 displays the widest variation in Ag content and location shape 3 is largely absent of the higher Ag alloys (above 30 wt% Ag). Some variation in the percentage of Cu-bearing grains is observed between the samples. Shape 1 contains 10.1% Cu-bearing gold grains (above detection - 0.05% Cu), and shape 2, 3 and 4 contain 5.3%, 12.1%, and 15% Cu-bearing gold grains, respectively. Minor differences were also observed in the percentage of Hg-bearing gold grains collected from the different locations. Shape 1, 2, 3 and 4 contain 4%, 10.5%, 6.1% and 9.6% Hg-bearing gold grains (above detection – 0.2% Hg), respectively.

This test to quantify the effect of fluvial environment in the North Henderson Creek drainage was conducted in a relatively narrow, high energy environment, in which gold-rich gravels are located in well-defined channels. This uniform sedimentary environment may account for the lack of variation in gold grain morphologies observed in this study. Application of this methodology in a gold-bearing meandering river system, in which well-defined, contrasting sedimentary environments (e.g., inside vs. outside river bend) may highlight greater morphological differences. On evaluation of the methodology employed to test these biases, better selection of sampling locations may have yielded a more informative result.

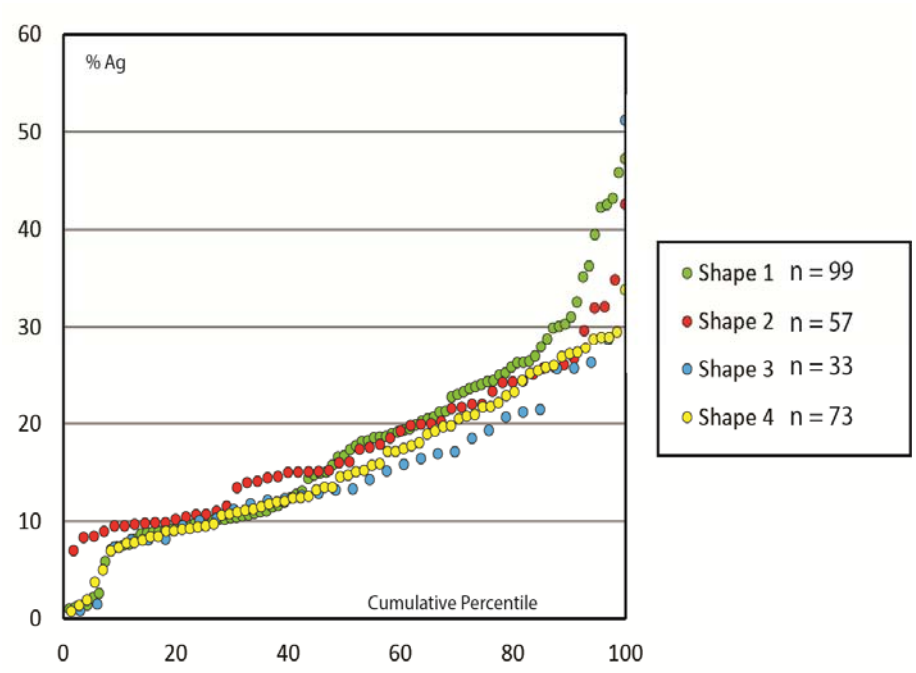


Figure 3. 6: Cumulative percentile plot of Ag contents for placer gold for the fluvial environment internal test.

3.2 Sample Processing

3.2.1 Procedure

Placer gold samples were prepared by rinsing with ethanol, and then drying them at low heat under a heat lamp for approximately 10 minutes per sample. Gold grains were then manually separated from the remaining heavy mineral concentrate and counted under a binocular microscope. Gold grains were separated into three size fractions (>20 mesh, 66 mesh < X < 20 mesh, <66 mesh) using an 'Endecotts (Filters) Limited' 20 mesh metal screen and SaaitPrint 66 mesh sheets. The grains were then roughly sorted into morphological groups and mounted on transparent adhesive sheets with their shortest axes parallel to the sheet. Grains were mounted in groups of one to twenty-five grains and then photographed against a blue backlight using a transmitted light microscope (Nikon Eclipse E600 POL) with an attached digital camera (Canon EOS *Rebel* T2i). Image analyses were calibrated using ball bearings of known size (0.4763 cm). The grains were then manually rotated by 90 degrees so that the short axes of the grains were perpendicular to the adhesive sheet, maintaining the same groupings, and re-photographed.

Grains were set into one inch diameter epoxy pucks in the same order and group so that shape and compositional data could be linked on a grain by grain basis. Buehler™epoxy resin was used (5:1 resin: hardener) and left to cure overnight at ambient temperature. The pucks were then separated from the glass slide, adhesive was removed using ethanol and finally heated at 60°C for at least 5 hours for a final curing of the epoxy. It was difficult to achieve a good quality polish on gold grains because of their softness, so considerable care was exercised in order to obtain a relatively scratch-free polish. After cooling, the pucks were ground on a Beuhler Handimet 2 grinder using Beuhler carbimet SiC grit paper sizes (600, 400, 320, 240 in sequence). Once grinding had revealed the core of the grains, each puck was polished individually on a Beuhler Minimet 100 using Texmet cloths and 6, 3, 1 micron diamond paste with Buehler Metadi extender cutting fluid. Polishing times and pressures were 6 minutes at 4 lbs; 8 minutes at 2 lbs and 10 minutes at 1 lbs for the 6, 3, 1 micron diamond pastes respectively, with the soft stop option on for all steps. Samples were then carbon coated in preparation for subsequent analyses.

3.3 Morphological Analysis

Photographs were taken of each gold grain group (two orientations) and then processed using the 'Image J' plugin developed by Crawford (2007), producing a text file (.txt) containing shape parameters of individual grains within each image.

As described in Chapter 2.4.1, Crawford (2007) defined the morphological calculation of Hofmann (1994) as the Hofmann shape entropy (HSE), due to Hofmann's description of this calculation as an 'entropy-like function describing a three-component system.' This calculation is re-defined here as the Hofmann shape factor (HSF), as it considered to be a more suitable term in its application to placer gold morphological studies.

Prior to this study the remaining calculations required to produce final distance-to-source calculations were conducted manually; however, through refinements made during this study these processes are now automated through the development of 'Goldtracker' software.

3.3.1 Development Of 'Goldtracker'

The process for determining shape parameters from image analysis was that developed by Crawford (2007). There are many steps involved in generating the final product of the distance-to-source calculations and each of these steps are time-consuming and involves manual manipulation of data files. These steps include; 1) generation of HSF values; 2) comparison with geochemical data; 3) selection of populations in terms of composition and HSF; 4) generation of the GMTD for a population (average HSF used); 5) generation of the sections by which the total GMTD for a population will be tested according to the gradient; and 6) final predictions for distance-to-source calculations (with associated errors). In order to automate the process to a greater degree, a Java-based computer program named 'Goldtracker' was designed, programmed and implemented for this study. Crawford (2007) used Java script to create the 'ImageJ' Plugin to generate gold grain shape parameters, and this language was also used in the development of the 'Goldtracker' to facilitate future co-development.

The ''Goldtracker'' program has three functions that can be executed (Fig. 3.7): 1) generate the image analysis file; 2) process morphological data for each defined gold grain population; and 3) convert and process image analyses for a whole population, in a single step.

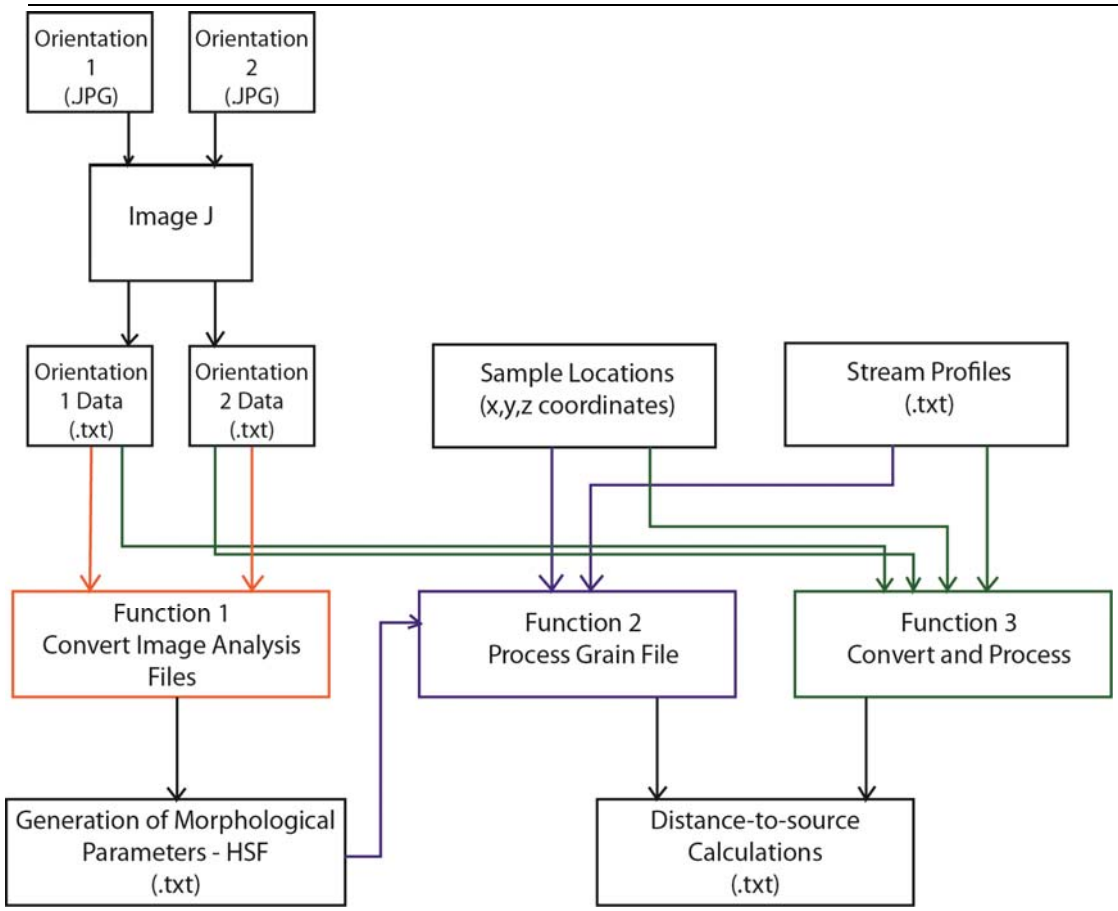


Figure 3. 7 Goldtracker flowchart.

Function one (Convert Image Analysis Files) combines the morphological data from two orientations (.txt format) and produces a table of morphological parameters in a similar manner to that developed by Crawford (2007); however, here 'Goldtracker' performs this step for the user, reducing potential errors that could be introduced during manual manipulation of data files, and increasing processing speed. In creating this file, shape data (HSF) can be considered in conjunction with EMP analyses to investigate which grains are likely to be derived from the same source. Crawford (2007) characterized populations in terms of both HSF and alloy composition, which facilitated clearer resolution of sub populations within a complex placer sample than previously afforded by consideration of alloy composition alone (e.g., Knight et al., 1999a). In the present study, the process for selecting grain populations incorporates a third parameter, namely the opaque mineral inclusion suite present within the gold grain.

Function two allows the user to identify different morphological groups and generate distance-to-source calculations for each group. Distance-to-source calculations are output as a *.txt file

that can be imported directly into GIS software (after a conversion of *.txt to a Microsoft Excel file format (*.xlsx)). The average HSF and standard deviation (±) are calculated for each group. A GMTD is generated for each value and is tested against a tree diagram of stream profiles (Fig. 3.8; see Appendix A.1 for the method for constructing stream profiles). The program establishes where the sample location is within the tree network using a nearest neighbour relationship. The program proceeds to test the total GMTD against a tree diagram to interpret transport distance. Once the total GMTD becomes less than zero, the last section that was completed is recorded; however, interpreted transport distances rarely lie directly at intersection points and there is a small portion of the total GMTD remaining. The program takes the GMTD of the uncompleted section, calculates the percentage of that section the remaining GMTD corresponds to, and interprets where within the next segment the final point lies. The output contains point data of the interpreted location from which the sub-population was liberated with the associated error (± 1 S.D).

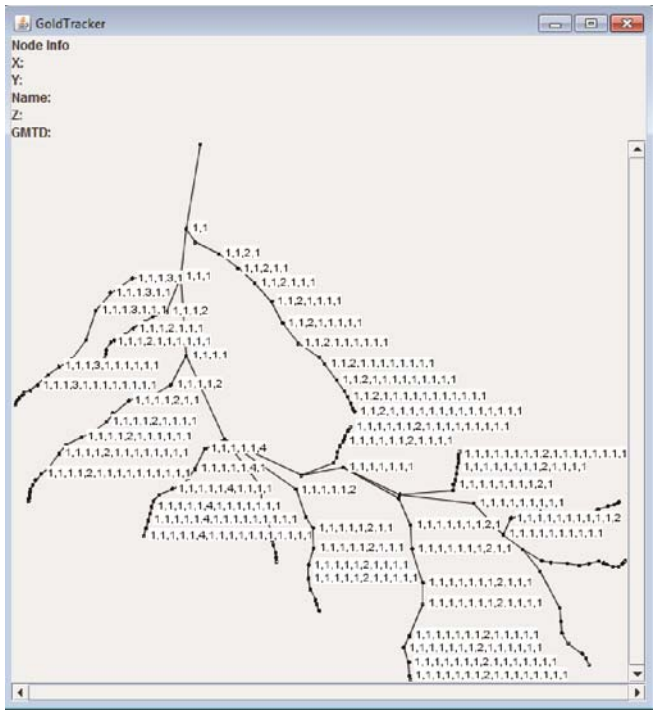


Figure 3. 8: Tree diagram of stream profiles. The sequence of numbers represents the individual identifiers for each potential transport paths.

Function three combines functions one and two into a single step. This is useful for rapid interpretation of the distance-to-source of a population where the sample was taken near the head of a drainage and where it is considered likely that only one source contributed to the

sample. This function may be useful in an exploration context, in cases in which decisions have to be made quickly. However, these quick interpretations would be more valid after the interrogation of both shape and EMP analyses to confirm that all of the gold grains are in fact derived from the same source.

The distribution of HSF values for gold grain populations display an approximate Gaussian distribution; therefore the standard deviation (S.D.) was used to quantify errors in the calculated transport distances. GMTD solutions are based on whole populations, as calculated distances for individual grains would produce a statistically insignificant result.

The GMTD was calculated for three HSF values for each sample population (average, 1-S.D., 1+S.D.) which were then compared against the tree diagram of stream profile. In some cases, the 1+S.D. yielded fewer solutions than the average of a given population, due to the population of gold grains having travelled a shorter distance. In other cases, the 1-S.D. reaches the end of the drainage and the physical stream profile imposes a real constraint on possible transport distance of a population.

3.3.2 Qualitative Evaluation Of Morphology

Quantitative analysis of gold grain morphology was applied to gold grain samples in most of the drainages evaluated in this study. However, a qualitative morphological study was undertaken in the Thistle Creek and White Gold areas according to the methodology employed by Chapman and Mortensen (2006), which was based on the morphology-transport distance relationships proposed by Townley et al. (2003; see Chapter 6).

3.4 Analytical Methods

3.4.1 Alloy Composition

The Ag content of a population of placer gold grains remains the first parameter studied when establishing a microchemical signature. The statistical distribution of Ag concentrations can establish whether the population may contain compositional sub-populations. Where detectable, Hg and Cu contents are used as additional discriminants in establishing microchemical signatures.

The alloy composition is determined using the electron microprobe (EMP) and therefore analysis is restricted to major elements - Au, Ag, Hg and Cu (in some cases, Hg and/or Cu are above EMP detection limits). The majority of EMP analyses for this study were conducted on a CAMECA SX-50 electron microprobe at the University of British Columbia (UBC), with others conducted on a Jeol 8230 Superprobe (University of Leeds, UK). Analyses were carried out using electron dispersion mode under the following conditions: excitation voltage, 20Kv; beam current, 20 nA; peak count time, 40s; background count time, 20s; spot diameter 5 µm. Ag and Au calibrations were measured over the course of a run of an Au80:Ag20 standard material. PET (Pentaerythritol) crystals were used in the determination of Au, Ag and Hg, and a LIF (Lithium Fluoride) crystal was used for Cu measurements. Peaks were deemed acceptable if the total measured wt% of the four elements was between 98 and 102%. Detection limits of 0.2, 0.1, 0.2 and 0.05 wt% were established for Au, Ag, Hg and Cu, respectively.

Analyses were taken from within the core of placer gold grains, avoiding obvious rim effects (e.g., leaching of Ag and/or formation of authigenic gold overgrowths), which corresponds to the composition of gold formed in the hypogene environment. In most cases, the alloy composition of gold grains is homogeneous (e.g., Fig. 3.9); however, in cases in which heterogeneity is observed, one analysis is recorded for each alloy phase (as deduced from relative spatial relationships in cross section; e.g., Fig. 3.10).

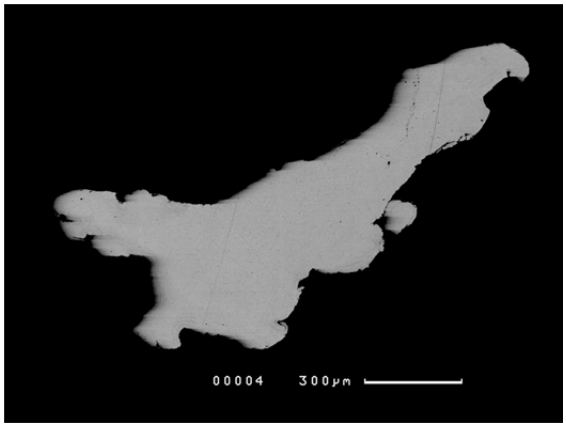


Figure 3. 9: Example of a gold grain with a homogeneous composition (back-scattered electron (BSE) image).

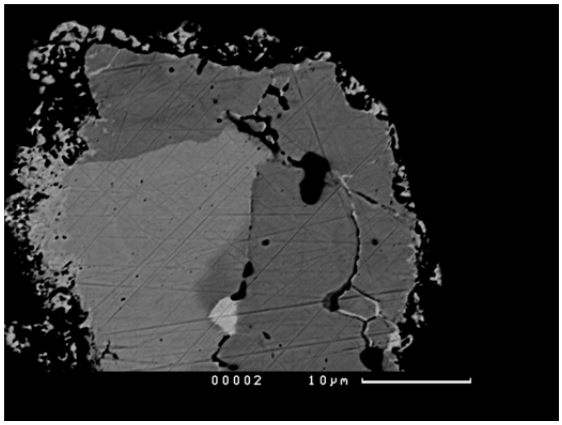


Figure 3. 10: Example of a gold grain with a heterogeneous alloy composition (BSE image).

In this study, a test was conducted to establish whether trace levels of Bi could be detected in gold alloy using EMP methods. This work was conducted using a new, more sensitive EMP at the University of Leeds using longer counting times (>60 s). However, in all tested samples Bi was universally below detection limit, even with the more sensitive instrument.

Crawford (2007) conducted a pilot study of laser-ablation ICP-MS trace element analysis of placer gold from several locations in the Klondike District which identified additional elements within gold alloys; including Cu, As, Bi, Te, Sn, and Pt. However, Crawford's research revealed a significant amount of mercury within gold alloys which seriously affected background levels of mercury within the analytical equipment. Because of this problem, laser ablation was not employed in the current study; however, laser ablation is still considered to be an important area for future research.

3.4.2 Mineral Inclusion Assemblage

The inclusion assemblage comprises mineral inclusions of a variety of natural minerals that are contained within the core of placer gold grains. These are systematically documented and are used to augment alloy compositional data from EMP analyses. These can include both simple (singular mineral species; e.g., pyrite) and complex inclusion types (i.e. intimate mixtures of different mineral species; e.g., Ag-Te, Ag-Te-S, Cu-Ag-S; Fig. 3.11).

Polished mounts were screened on a Scanning Electron Microscope (SEM) using back scattered electron mode (BSE). Qualitative chemical compositions of inclusion species were determined using Energy Dispersive Spectroscopy (EDS).

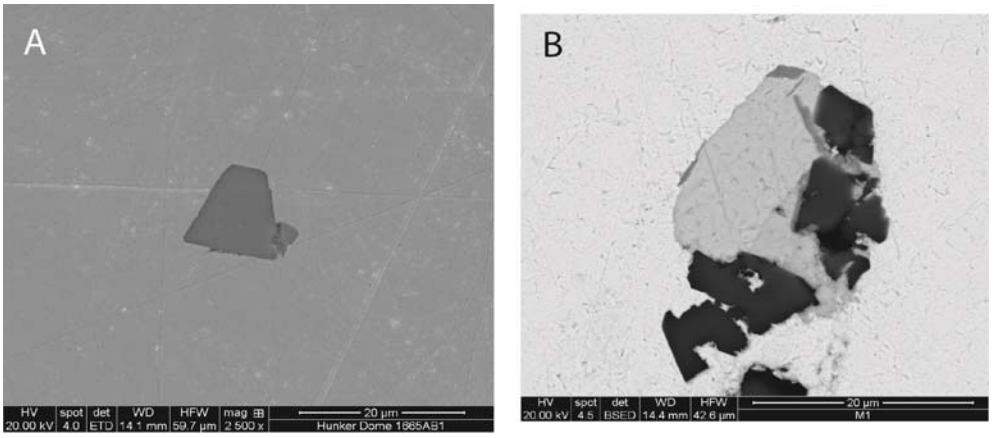


Figure 3. 11: (a) Simple pyrite inclusion in gold (Hunker Dome; BSE image). (b) Complex AgTe-AgTeS-CuAgS inclusion in gold (Henderson Creek; BSE image).

Associated minerals are grouped to establish microchemical signatures; in some cases, the presence of one inclusion species may be sufficient to warrant a distinct microchemical signature.

3.4.3 Data Presentation

Cumulative frequency plots as described in Chapman et al. (2010a) are a visually effective way of comparing gold alloy compositions of several populations that contain different numbers of gold grains. These plots can identify compositional sub-populations of differing Ag composition or simply display the range of Ag values observed in single population.

The mineral inclusion assemblage may be characterized either according to the proportions of grains which contain inclusions of a particular mineral class (e.g., base metal sulphides, which includes: galena, chalcopyrite, sphalerite) or by specific mineral species where these are diagnostic. The technique of microchemical characterization affords correlation of inclusions with alloy compositions on a grain-by-grain basis such that sub-populations may be identified using two independent parameters. The inclusion suite may be depicted using triangular plots, which establish compositional fields of different samples according to mineralogy (see Chapter 7).

Crawford (2007) was the first author to integrate morphological and compositional data to discriminate sub-populations within a larger population of gold grains. By using a Kernel Density Estimation (KDE) method he was able to plot composition (% Au) against HSF, showing the probability density surface of a population. The clear value of this work was that the method

could differentiate between populations that may have the same range in Ag content but different transport distances or visa versa, in addition to identifying the natural compositional variability present in the population.

In the present study, a similar approach was taken to combine morphological and compositional data in order to identify sub-populations. Crawford (2007) used a KDE to create a visual interpretation of populations within a sample; however, here a contouring function was used to present the data based on point density of the data in HSF-%Au space. In densely sampled areas it is useful to generate a series of plots, from samples in the upper to lower portions of individual drainages. Changes in morphology and composition can be clearly observed by the contouring of data in this way (Appendix A.2 - How To Interpret HSF-%Au Diagrams).

Distance-to-source calculation diagrams for individual drainages comprise distance-to-source calculations for all samples overlain on the same diagram. This facilitates the comparison of calculations from samples taken throughout the drainage. In order to clearly display these calculations, sample locations are depicted as stars and calculated source locations are depicted as spots of the corresponding colour. The coloured outline of the star represents the error on the distance-to-source calculations for that particular sample.

In this study, multiple distance-to-calculations are presented spatially on maps of individual drainages. For each placer sample, a source location is calculated along each possible transport path. In some cases, source predictions from different samples may spatially overlap, which generates additional confidence in the distance-to-source prediction. Henceforth, spatially overlapping distance-to-source calculations are referred to as ‘clustering.’

4 Integrated Microchemical Characterization And Morphological Analysis Of Placer Gold As An Exploration Tool: Application In Areas Of Active Exploration

4.1 Introduction

In many parts of the world, significant placer gold deposits are known to be associated with economically important lode gold resources; however, in many placer gold rich areas the lode source(s) of placer gold have yet to be discovered.

The methodology employed in the present study involves the analysis of gold alloy composition and gold inclusion mineralogy using SEM-based techniques (together comprising microchemical characterization), in addition to quantitative morphological studies that utilize shape parameters of placer gold to model transport distances from source. Integration of this information with data from conventional exploration techniques can provide: (1) better characterization of the diversity of gold types derived from bedrock sources (multiple sources vs. variation within a single source); and (2) information on source location.

Qualitative interpretations of gold grain morphology have been used to assess transport history (Townley et al., 2003; Chapman and Mortensen, 2007); however, in recent years the use of morphological data has developed into a rigorous statistical approach. Quantitative studies of placer gold morphology have been conducted in Canada, the majority of which has been conducted in western Yukon Territory (Knight et al., 1999a; Crawford, 2007; Crawford and Mortensen, 2009).

The present study applies gold grain microchemical characterization (as described by Chapman et al., 2000), together with a refined method of applying the grain shape evolution model (described in Chapter 3), in the Henderson Creek and Tenmile Creek drainages of the White Gold District (Fig. 1.1) of western Yukon. The results of these studies are interpreted in the context of data generated by conventional exploration methods (e.g., geological mapping, geophysical surveys and soil geochemistry). The aim of this study is to examine how placer gold studies can provide additional information at an early stage in the exploration process through

identifying lode-placer gold relationship(s), identifying the point(s) of influx of distinct populations of gold into fluvial systems, and identifying likely sources of important gold types.

4.2 Henderson Creek Drainage

4.2.1 Introduction

The Henderson Creek drainage is a located approximately 12 km northeast of the confluence of the Yukon and White rivers (Fig. 1.1). It consists of two main creeks: Henderson Creek, which flows to the southwest and comprises north and south flowing tributaries, and North Henderson Creek, which flows west in its upper reaches, and deviates to the south as it flows into Henderson Creek (Fig. 4.1).

The Henderson Creek drainage is underlain mainly by felsic orthogneiss, together with various metasedimentary units, amphibolite schist, and marble, all of Paleozoic age (Gordey and Ryan, 2005; MacKenzie and Craw, 2012). Structurally-hosted gold mineralization identified by Kinross Gold Corporation (e.g., Sabotage, Frenzy) during exploration in 2010 and 2011 is hosted mainly by Mississippian felsic orthogneiss (Mortensen, unpublished data). Most vein-related gold mineralization in this area is interpreted to be Jurassic in age (Allan et al., in review), based on the interpretation that such structures correlate to known Jurassic mineralization in the Klondike (Mortensen, unpublished data) and White Gold districts (Allan et al., in review; Bailey, 2013). Gold, molybdenum, and copper anomalies that lie within mapped exposures of Carmacks Group volcanic rocks (e.g., X-Man) have been demonstrated to relate genetically to porphyritic intrusions of latest Cretaceous age (Allan et al., in review).

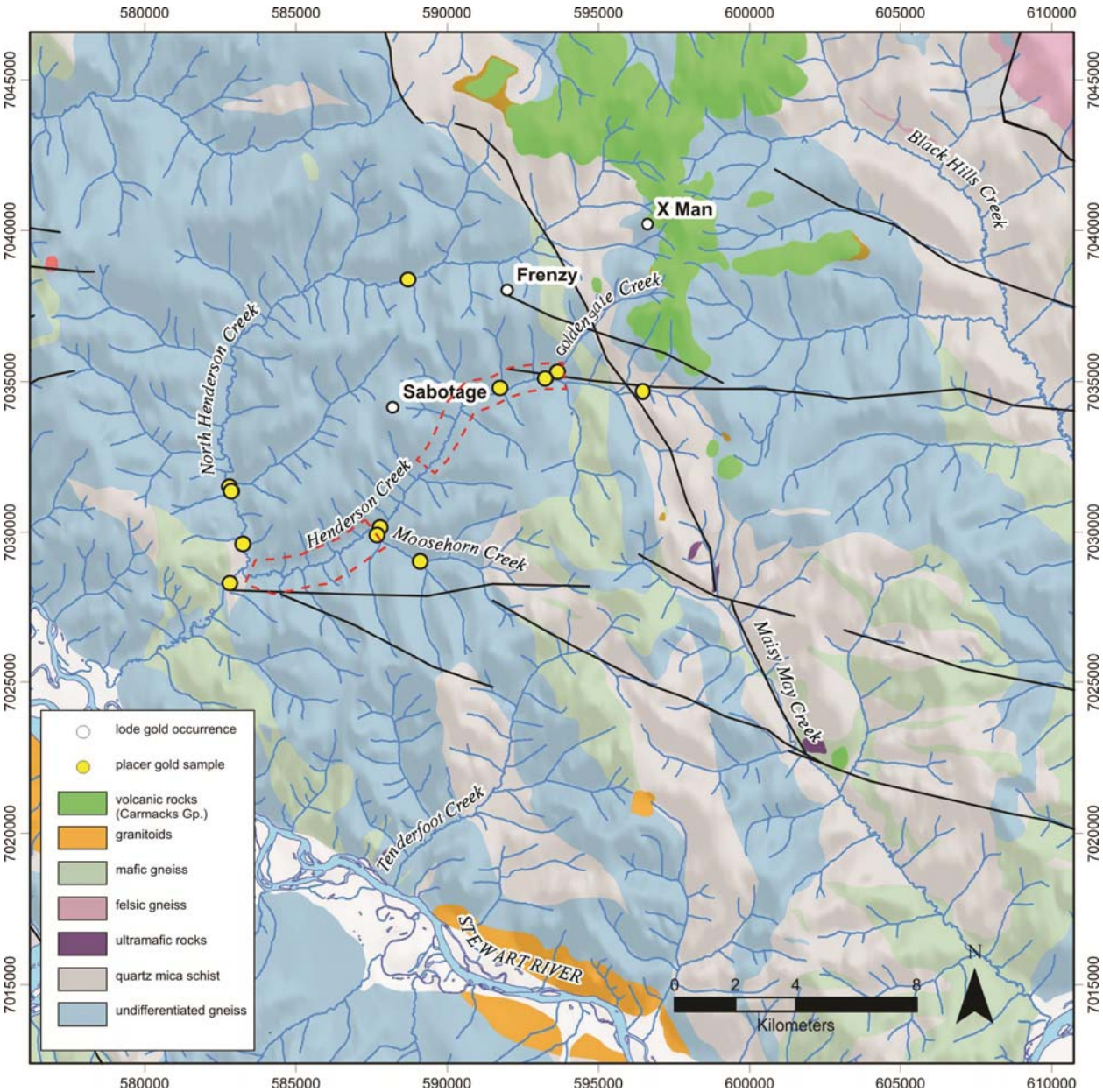


Figure 4. 1: Sample locations in the Henderson Creek drainage showing the regional geology of Gordey and Ryan (2005) and structural lineaments interpreted from airborne magnetic data (interpretation by M. Allan based on geophysical data of Kinross Gold Corp.). Figure adapted from Allan et al. (2012b). Dashed red areas indicate the approximate location of particularly gold-rich areas. Projection: NAD83 UTM zone 7N.

Henderson Creek was dredged from 1946 to 1956 and these operations yielded at least 35,000 ounces (oz) of gold (LeBarge, 2007). Dredging was carried out along the main Henderson valley between Goldengate Creek and the confluence with North Henderson Creek (Fig. 4.1), beyond which (in both upstream and downstream directions) no mining has been carried out (LeBarge, 2007). The local placer miner (Mr. Hayden Cowan) identified two areas that he observed to be particularly rich in placer gold. These observations are in agreement with historical records

(LeBarge, 2007) and indicated two main placer gold-rich areas: one in the northeast and the other in the southwest (Fig. 4.1).

Exploration activity within the Henderson Creek area (JP Ross property) by Kinross Gold Corporation since 2010 has focused on identifying bedrock gold mineralization within this placer gold rich area. Several prospects have been generated by testing gold-in-soil anomalies (e.g., Stage Fright, Sabotage, North Frenzy, Frenzy, X-Man, Psycho, and Vertigo), each of which display somewhat different host rock lithology and metal associations. The Sabotage, Frenzy, North Frenzy, Stage Fright, Vertigo, and X-Man prospects have been tested with diamond drill programs, of which the Frenzy and Sabotage prospects are described in further here.

The Frenzy prospect lies in the headwaters of Goldengate Creek and is directly to the south of the upper reaches of North Henderson Creek (Fig. 4.1). Mineralization is hosted by biotite orthogneiss with varying degrees of compositional layering and intensity of foliation. The metamorphic foliation identified is locally disrupted by high angle, brittle-ductile kink folds and zones of brecciation, which are interpreted to have formed during the D_4 deformation event (Allan et al., in review) as defined by MacKenzie et al. (2008) for the Klondike District. The Frenzy prospect is spatially coincident with a structure identified on a regional airborne magnetic survey, and also corresponds closely to the upstream limit of placer gold mining on Henderson Creek.

Allan et al. (2010) showed that gold mineralization at Frenzy is closely associated with widely spaced pyrite-bearing veins, associated with the third generation of veins. Drill core assays for intervals containing only ~1% pyritic vein material yield gold values up to 13 g/t Au, implying that individual veins are extremely gold rich. Frenzy is characterized by a Au ± Cu-Pb-As geochemical signature, which agrees with petrographic observations that pyrite contains inclusions of gold, galena and chalcopyrite (M. Allan, unpublished data). Carbonate alteration of host rocks and calcite vein fill at the Frenzy prospect is also distinctive, and suggests that fluids were CO_2-charged. Furthermore, the widespread occurrence of pyrite in vein selvages suggests that fluids were S-rich, and that wall rock sulphidation may have been an important Au-precipitating mechanism.

The Sabotage prospect lies in the headwaters of the left limit tributary of North Henderson Creek (Fig. 4.1). The host rock to mineralization is a homogeneous felsic orthogneiss with a shallowly northwest-dipping, planar to undulatory metamorphic foliation. This metamorphic foliation defines broad, open folds (Allan et al., 2010), which are overprinted by multiple phases of brecciation.

Mineralization at Sabotage occurs within a single, steeply dipping structure containing multiple generations of veins and breccias. Allan et al. (2010) identified four stages of veins and defined the paragenetic sequence as: (1) early bull quartz; (2) pervasive silicification of orthogneiss host rock; (3) quartz-molybdenite veining; and (4) multiple phases of brecciation. Allan et al. (2010) characterized the mineralization at Sabotage as Au-only, and suggested that the apparent covariance of gold and molybdenite mineralization may reflect the spatial overlap of two distinct vein generations that have exploited the same structure.

Eleven placer gold samples were collected within the Henderson catchment (Fig. 4.1), and a total of 1046 gold grains were analyzed according to the technique of microchemical characterization and morphology. Mineral inclusions are relatively abundant in the analyzed placer gold grains. Individual localities are described below.

4.2.2 Results

Alloy Composition

Figure 4.2 displays the Ag contents of placer gold samples from Henderson Creek (upper Henderson Creek, Haydens Pit, Camp, Goldengate Creek, mid-Henderson Creek and lower Henderson Creek). These plots are similar, displaying parallel to sub-parallel trends and a gradual decrease in Ag content downstream.

The alloy composition of two samples from upper and lower Moosehorn Creek are identical and display a similar composition to gold samples from lower Henderson Creek (Fig. 4.2).

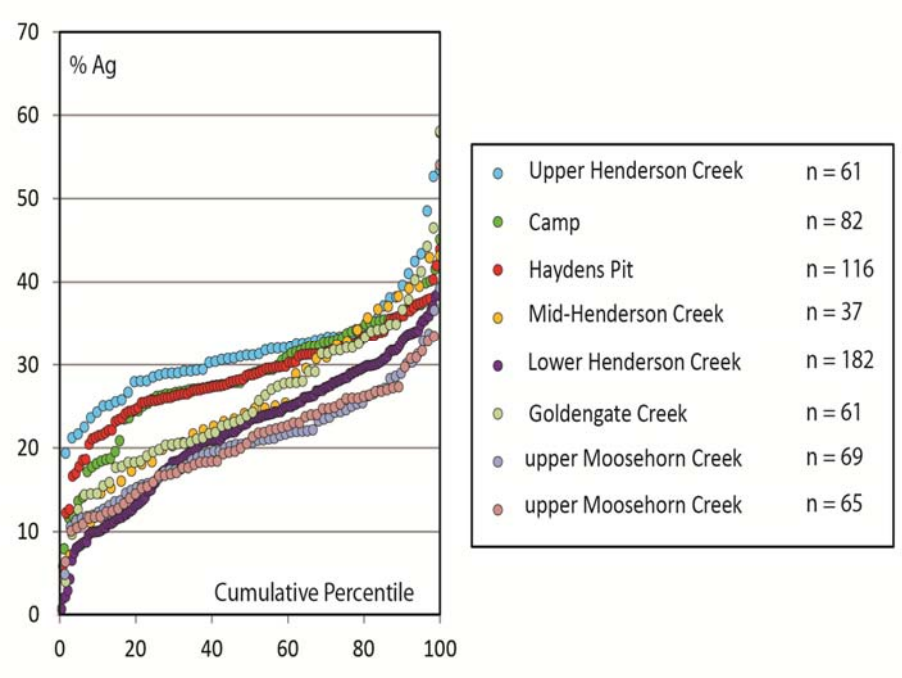


Figure 4. 2: Ag contents of placer gold samples along Henderson Creek.

Figure 4.3 displays the Ag contents for the North Henderson Creek localities. As with the samples from Henderson Creek, there is a decrease in Ag content of gold samples downstream of the upper North Henderson locality.

The variation in Ag contents between sample sites is reflected in minor changes in the concentration of Cu and Hg gold alloy. However, these variations are subtle, and it is not possible to interpret this observation with confidence (Table 4.1).

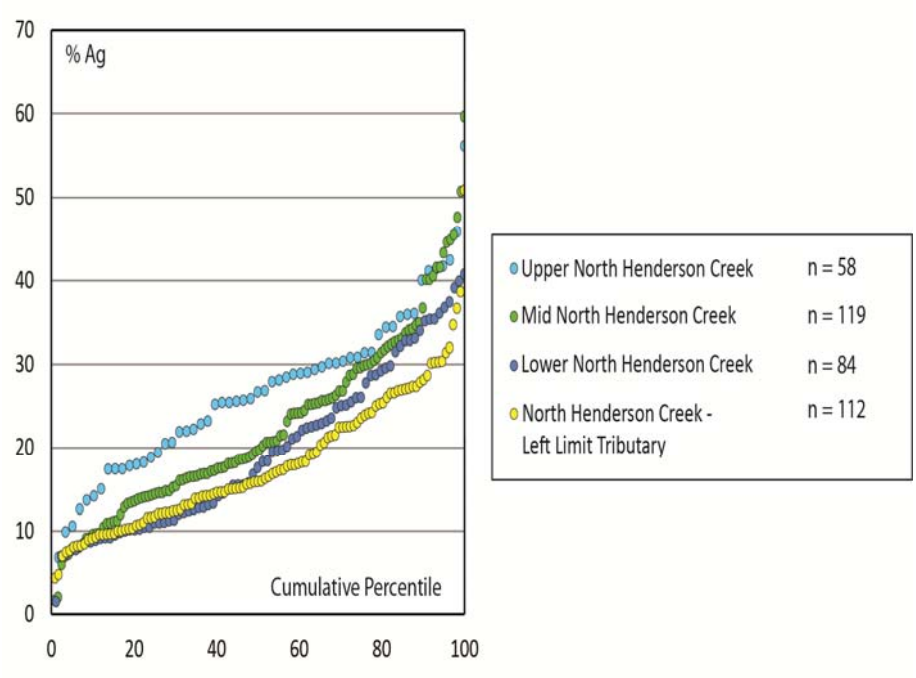


Figure 4. 3: Ag contents of placer gold samples along North Henderson Creek.

An important observation through the inspection of alloy compositions in the Henderson Creek drainage is the similarity between the Ag content of gold samples from upper North Henderson and Goldengate creeks (Fig. 4.4).

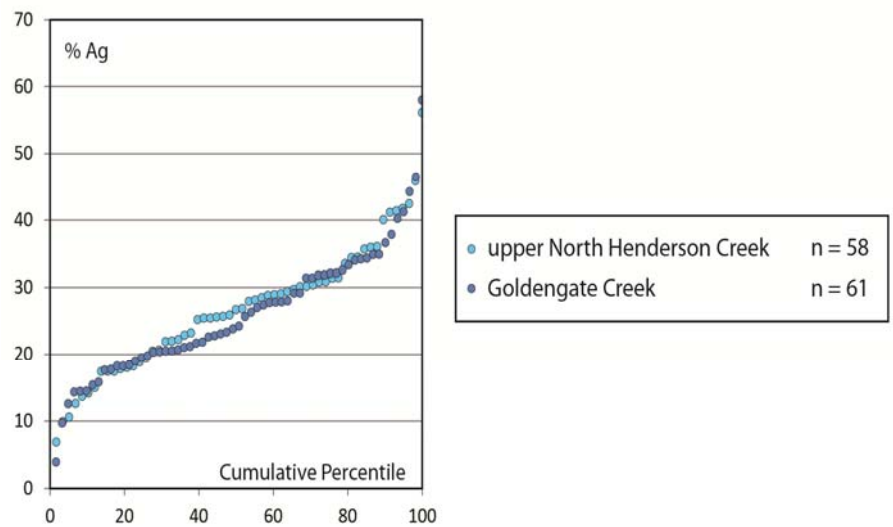


Figure 4. 4: Comparison of Ag content from upper North Henderson Creek.

Inclusion Assemblages

Inclusion assemblages of gold samples from Henderson Creek are broadly similar and comprise mainly pyrite with minor galena, sphalerite, chalcopyrite, arsenopyrite and silver tellurides (Ag-Te); however, additional complex inclusion species are observed at the Camp and Haydens Pit localities (Table. 4.1; Appendix B.3). A distinct Bi-Te, Ag-Te, pyrite dominant inclusion assemblage with minor galena-molybdenite is present in the left limit tributary of North Henderson Creek.

Table 4. 1: Microchemical signature of gold grains from the Henderson Creek drainage.

Locality	n (number of grains)	Median Ag (%)	Cu Bearing (%)[1]	Hg Bearing (%)[2]	Inclusion Assemblage
Henderson Creek Drainage					
Upper Henderson	61	31.1	0	6.7	Arsenopyrite, pyrrhotite
Camp	82	28.9	2	0	Complex Cu-Ag-S ± Te ± Sb ± Se, chalcopyrite
Haydens Pit	116	28.7	1.5	1.6	
Mid - Henderson Creek	37	24.7	2.7	0	Pyrite, chalcopyrite, galena
Lower Goldengate Creek	61	24.2	5	0	Arsenopyrite, pyrrhotite, galena
Lower Henderson Creek	182	23.4	6.7	1.1	Pyrite, Ag-Te, galena, rutile, chalcopyrite
Upper Moosehorn Creek	69	20.6	4.4	1.5	Arsenopyrite, galena, pyrrhotite, Bi-Te-Se
Lower Moosehorn Creek	65	21.3	3	3	
North-Henderson Creek Drainage					
Upper North Henderson Creek	58	26.8	1.7	3.5	Galena, arsenopyrite, chalcopyrite
Mid - North Henderson Creek	119	19.7	8.4	5.9	Ag_2S, Bi-Te, arsenopyrite, pyrrhotite,
Lower North Henderson Creek	84	17.9	10.7	1	Galena
North Henderson Creek - Left Limit Tributary	112	15.9	10.7	0	Bi-Te, Bi-S, Pb-Bi-S, pyrrhotite

All inclusion suites contained a Ag sulpho-telluride, probably cervelleite (Ag_4TeS) and pyrite unless otherwise stated. Pb-Bi-S, Bi-Te, Bi-Te-S, Bi_2Te_2S and Bi-S = undetermined Bi-bearing minerals

[1] Cu bearing refers to the percentage of grains that contain Cu above the detection limit of 0.05%.

[2] Hg bearing refers to the percentage of grains that contain Hg above the detection limit of 0.2%

HSF-%Au Data

Figure 4.5 and 4.6 are series of HSF-%Au plots for Henderson Creek and North Henderson Creek gold samples, respectively.

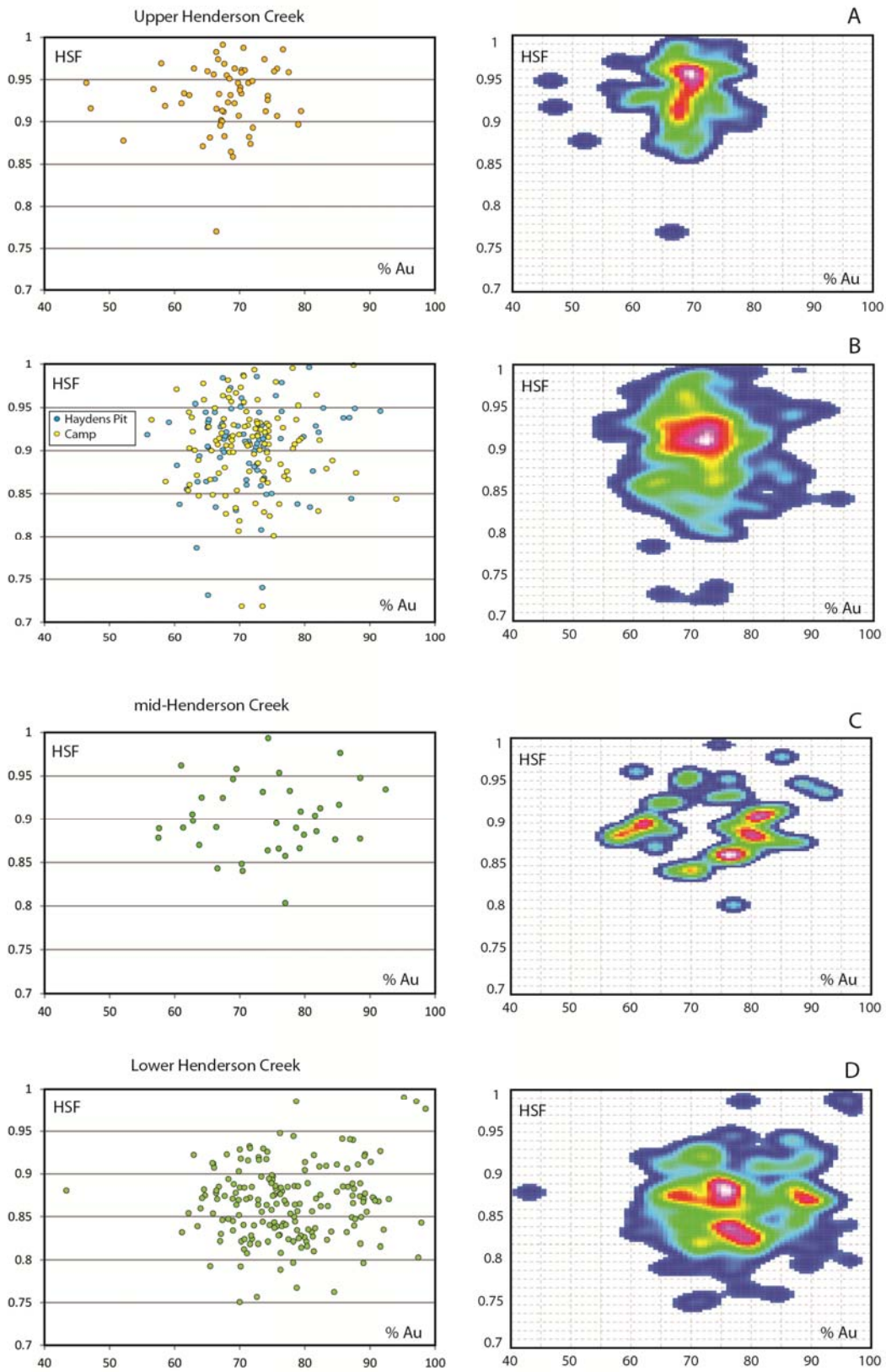


Figure 4. 5: HSF-%Au plots for the Henderson Creek placer gold localities.

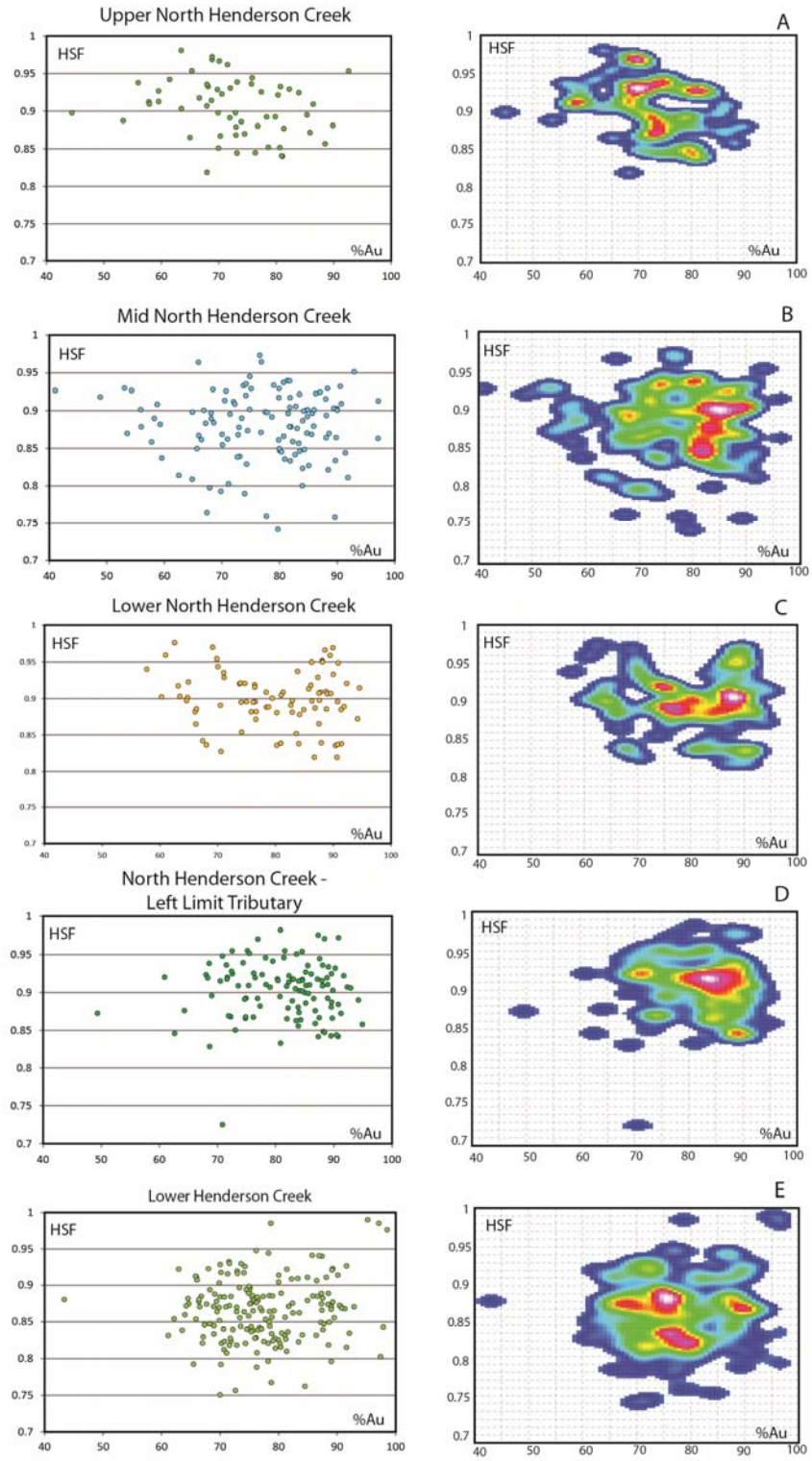


Figure 4. 6: HSF-%Au plots for the North Henderson Creek placer gold localities.

Figure 4.5 is a series of HSF-%Au plots for the Henderson Creek drainage. The upper Henderson Creek sample (Fig. 4.5a) displays a more spherical grain shapes in terms of HSF, and the subsequent downstream samples exhibit progressively lower HSF (Fig. 4.5a-d).

Figure 4.6 is a series of HSF-%Au plots for the North Henderson Creek drainage. Significantly more scatter in both HSF and Ag content is observed for samples from this creek compared to those for the Henderson Creek samples discussed above. In the headwaters of North Henderson Creek (upper North Henderson Creek sample; Fig. 4.6a) the population is dominated by gold grains with relatively high-Ag content. Between the upper and mid North Henderson Creek samples (Fig. 4.6a-b), there is an influx of gold grains with low-Ag content that subsequently dominate the placer gold population down North Henderson Creek (Fig. 4.6a-c).

The lower Henderson Creek sample (Fig. 4.6c) displays a gold signature most similar to that observed along Henderson Creek.

Distance-To-Source Calculations

Figure 4.7 displays the distance-to-source calculations for the sampling localities within the Henderson Creek and North Henderson Creek drainages. Clustering (spatially overlapping distance-to-source calculations derived from independent sample locations) of distance-to-source calculations varies within different tributaries. Clustering of distance-to-source solutions are observed at the headwaters of Moosehorn and Henderson Creeks, and to a lesser extent in the left limit tributary of North Henderson Creek and at the headwaters of North Henderson Creek itself.

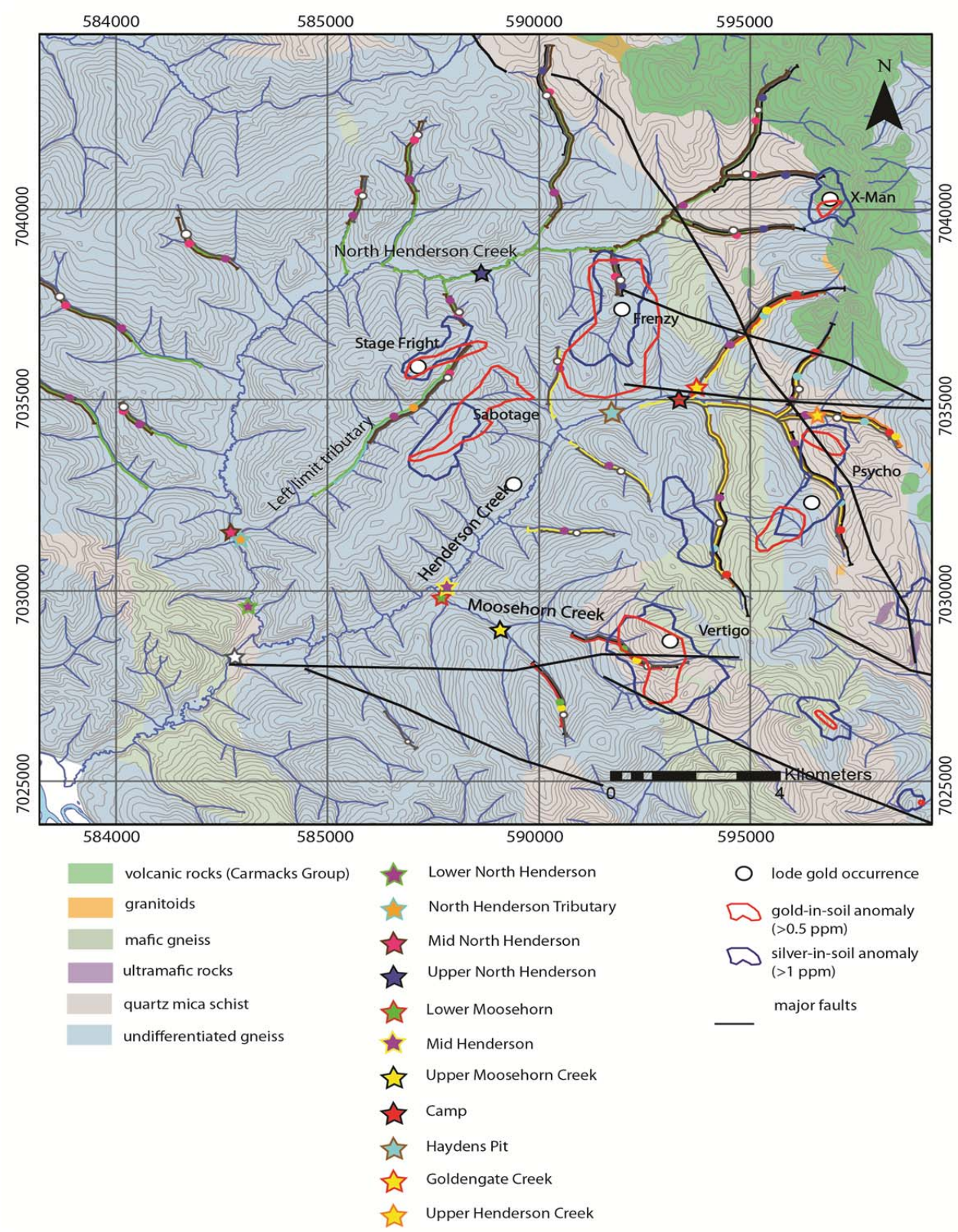


Figure 4. 7: Distance-to-source calculations for the Henderson Creek drainage. Coloured dots represent calculated distance-to-source locations, and are colour-coded by placer sample (coloured stars). ± 1 S.D. error bars are colour-coded by the perimeter colour of the associated placer sample. Projection: NAD83 UTM zone 7N.

Distance-to-source calculations yield solutions in close proximity to the Vertigo anomaly (in the headwaters of Moosehorn Creek) and Sabotage prospect (in the headwaters of the left limit tributary of North Henderson Creek; Fig. 4.7); however, other results suggest the presence of additional points of gold influx in areas that have not been systematically sampled to date.

4.2.3 Discussion

The limit of historic dredging within the Henderson Creek drainage provides a good proxy for the original concentration of gold within the valley. The most plausible interpretation for the distribution of placer gold is that gold was liberated in the upper reaches of the drainage and the dredges exploited the dispersion train downstream. While the signature of placer gold recovered from below the Henderson Creek-North Henderson Creek confluence displays elements of gold signatures from both creeks, it is most similar to that of gold from the main valley. Consequently, gold from North Henderson Creek can be identified as a minor component of a mixed population. This assertion is consistent with the distribution of historic placer mining, which was confined to the main valley.

Data from the shape analysis study is also consistent with the hypothesis described above. The series of HSF-%Au plots for Henderson Creek (Fig. 4.5a-d) display a gradual decrease in HSF with distance along the creek. This observation suggests the liberation of placer gold from a lode gold source at or near the head of the drainage, and subsequent modification of grain shape with transport.

The series of HSF-%Au plots (Fig. 4.6a-c) for North Henderson Creek suggest a more complex gold grain liberation and/or transport history. The data suggests an influx of gold upstream of the upper North Henderson Creek sample and a contribution of a gold signature with low-Ag content between the upper and mid North Henderson Creek localities (Fig. 4.6a-b). The second signature is more important, as it dominates the microchemical signatures of placer gold populations downstream in North Henderson Creek. This gold influx correlates well with the low-Ag gold grains that are transported down the left limit tributary of North Henderson Creek (Fig. 4.6d).

Considering the drainage as a whole, two distinct microchemical signatures can be identified. Type 1 comprises mainly pyrite with minor base metal sulphides (galena, sphalerite, chalcopyrite, arsenopyrite) and Ag-Te, and type 2 comprises a Bi-Te, Ag-Te, Mo, pyrite assemblage.

The Goldengate and upper North Henderson placer gold localities both source gold from the headwaters of the Henderson Creek drainage in which the Frenzy prospect occurs. It is therefore informative to compare the microchemical signature of placer gold with mineralogical observations from Frenzy. The Ag plots for both locations are nearly coincident (Fig. 4.4). Furthermore, the inclusion mineralogy of both placer gold samples (type 1 gold; table 4.1) correlates well with petrographic observations that pyrite contains inclusions of gold, galena and chalcopyrite (M. Allan, unpublished data). The Frenzy prospect is intersected by an east-west trending fault interpreted from regional geophysics (Kinross airborne magnetic survey; Fig. 4.7) and gold grades of gravels upstream of this structure (upper Henderson locality being the closest locality) are negligible (H. Cowan, pers. comm.), suggesting a discrete influx of placer gold in the vicinity of these structures.

Based on reconnaissance field observations, the Sabotage prospect appears to host paragenetically distinct episodes of Au and Mo mineralization. This prospect is not obviously associated with any major structure that is detectable in regional or property-scale magnetometric datasets; however, drilling has identified a steeply dipping structure that exhibits multiple generations of veining and brecciation. There is no evidence for historical placer mining close to the Sabotage prospect, which suggests either trivial mineralization or very fine gold particle size. One placer gold sample was collected in the lower reaches of a left limit tributary of North Henderson Creek, which drains the Sabotage prospect. Grains recovered from this sample are distinctive with respect to those recovered from elsewhere in the Henderson Creek drainage and represent a type 2 gold signature containing Bi-bearing minerals and molybdenite. Although Allan et al. (2010) suggested that the covariance of Au and Mo mineralization at Sabotage was likely due to different vein generations exploiting the same structure. The observation of molybdenite as an inclusion species in gold may suggest a paragenetic association between Au and Mo and/or the presence of an unidentified generation

of Au- and Mo-bearing veins. A close paragenetic link between Au and Mo is observed at the Golden Saddle deposit in the White Gold District (Bailey, 2013; see Chapter 6), which displays similar geological features to those observed at the Sabotage prospect (Allan et al., in review).

The X-Man prospect, located in the headwaters of North Henderson Creek (Fig. 4.1) is hosted within late Late Cretaceous Carmacks Group volcanics (71-69 Ma) and is immediately adjacent to an intrusion exhibiting porphyry-style Mo-(Cu) mineralization (Allan et al., in review). This prospect is a potential contributor of gold to the placer inventory, and a gold signature derived from this prospect might be expected to be distinctive from others in the drainage. The upper North Henderson Creek locality directly drains the X-Man prospect, but the microchemical signature of this gold sample conformed to those recorded elsewhere in the drainage given its intrusive origins. Consequently, it is concluded that either the abundance of gold at X-Man is low, or that the gold particle size is fine and was not concentrated in the placer environment.

4.2.4 Conclusions

1) The source of gold in the Henderson Creek drainage is concentrated in two areas, one in the northeast of the drainage and a smaller one in the southwest.

2) The dredged area of Henderson Creek represents a dispersion train of gold from a localized source in the headwaters of Henderson Creek.

3) Mineralogical descriptions of the Frenzy prospect correlate well with the microchemical signatures observed in proximal placer deposits (upper North Henderson and Goldengate Creek) that drain the prospect, suggesting a possible placer-lode relationship.

4) There is close spatial agreement between interpreted regional structures, rich placer deposits and an influx of a gold type (type 1) suggests that the Frenzy prospect area is the source for most, if not all of the placer gold within the Henderson Creek drainage.

5) The origin of the Mo and Bi-bearing mineral inclusions remains unclear; however, similarity between the inclusion assemblages and mineralogical description of mineralized material in the vicinity makes the Sabotage prospect or similar mineralization the most likely source of this atypical signature.

4.3 Tenmile Creek Drainage

4.3.1 Introduction

Tenmile Creek is a south-west flowing tributary of the Sixtymile River, located eight kilometers west of the confluence of the Sixtymile and Yukon rivers (Fig. 4.8). The Tenmile Creek drainage is underlain by various metasedimentary and metaigneous lithologies of the Yukon-Tanana terrane, including biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, felsic and dioritic orthogneiss, amphibolite schist and gneiss, and minor marble (Gordey and Ryan, 2005) (Fig. 4.8).

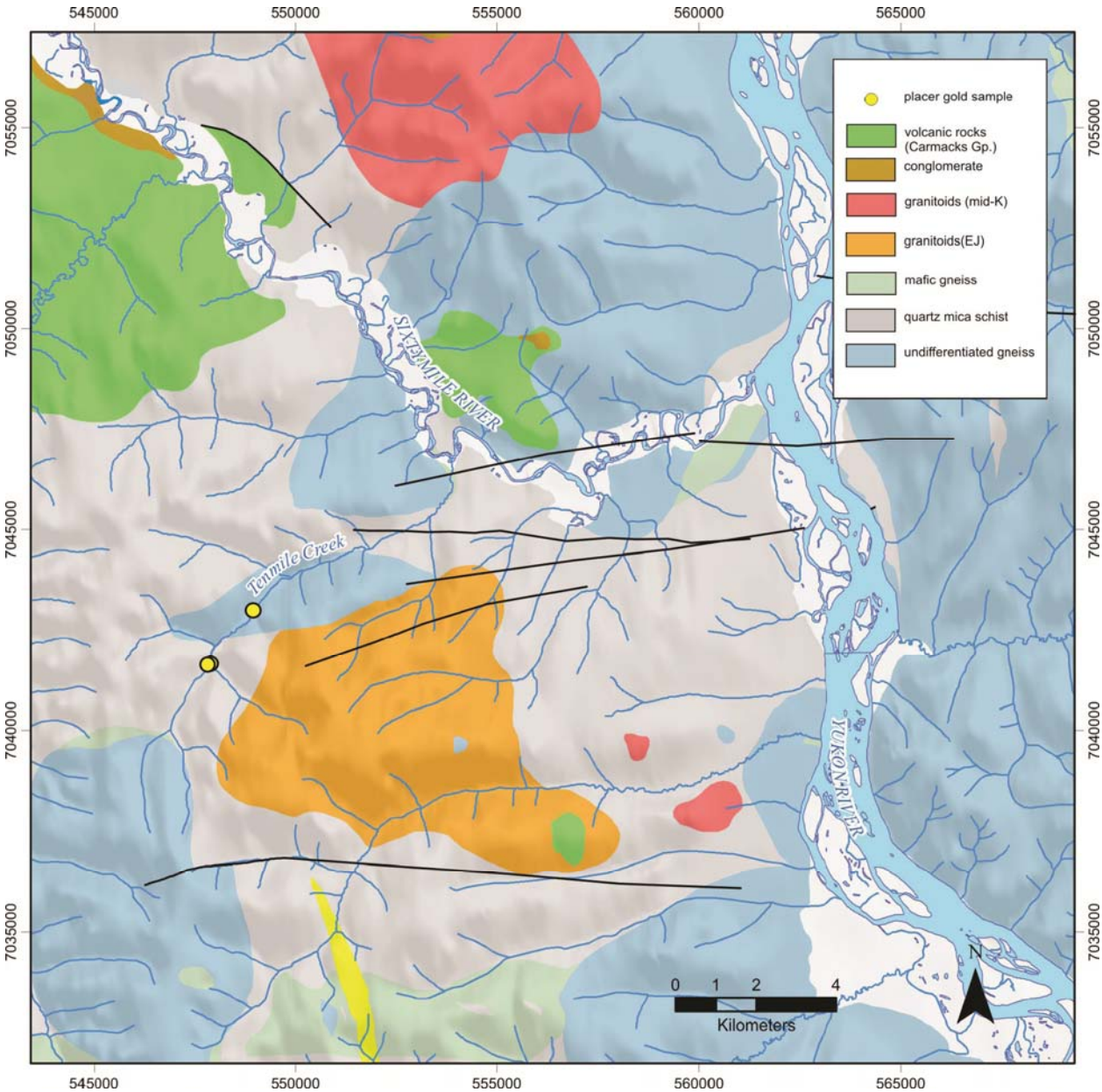


Figure 4. 8: Sample localities in the Tenmile Creek drainage (Gordey and Ryan, 2005). Projection: NAD83 UTM zone 7N.

The Tenmile Creek drainage is a site of active placer mining, which demonstrates the presence of bedrock gold mineralization within the catchment. Three companies, including Rackla Metals, Ryan Gold, and Stina Resources undertook bedrock exploration in the area between 2010 and 2012. A report describing the Dime Property (Stina Resources; Pautler, 2012) and a compilation of the available soil data in the area (provided by Rackla Metals Inc.) are the primary sources of information used to link placer gold signatures with zones of potential bedrock mineralization.

The Dime project (Pautler, 2012) covers half of a mineralized area initially identified by Teck Exploration, which is characterized by a gold and arsenic anomaly overlying the Early Jurassic Tenmile pluton. Bedrock exposure in the area is limited; however, evidence from soil data and isolated float material led to the recognition of quartz veins and stringers with pyrite ± arsenopyrite, and silicified granite and metasedimentary host rocks. Subsequent exploration programs conducted by Stina Resources delineated three easterly trending gold-in-soil anomalies associated with arsenic, lead, and antimony. An airborne magnetic survey identified north-northwest trending structures (magnetic low anomalies) that appear to be sinistrally offset by an east-trending fault. This structural environment is similar to that at the Golden Saddle deposit located 42 km to the southwest (Bailey, 2013; see Chapter 6). Gold mineralization in the area occurs as quartz-sulphide stringers and pyrite-arsenopyrite stringers and disseminations that are closely associated with zones of silicification, brecciation, and shear zones (Pautler, 2012).

Three placer gold samples were collected and a total of 328 grains were analyzed from the drainage. This included one sample from each branch of the main fork at the head of the drainage, and one sample from Tenmile Creek itself.

4.3.2 Results

Alloy Composition

Figure 4.9 displays the Ag contents of the three placer gold samples. All samples display a similar narrow variation in Ag content; however, higher Ag values are not observed in sample Loc 2 (28 - 53 wt% Ag).

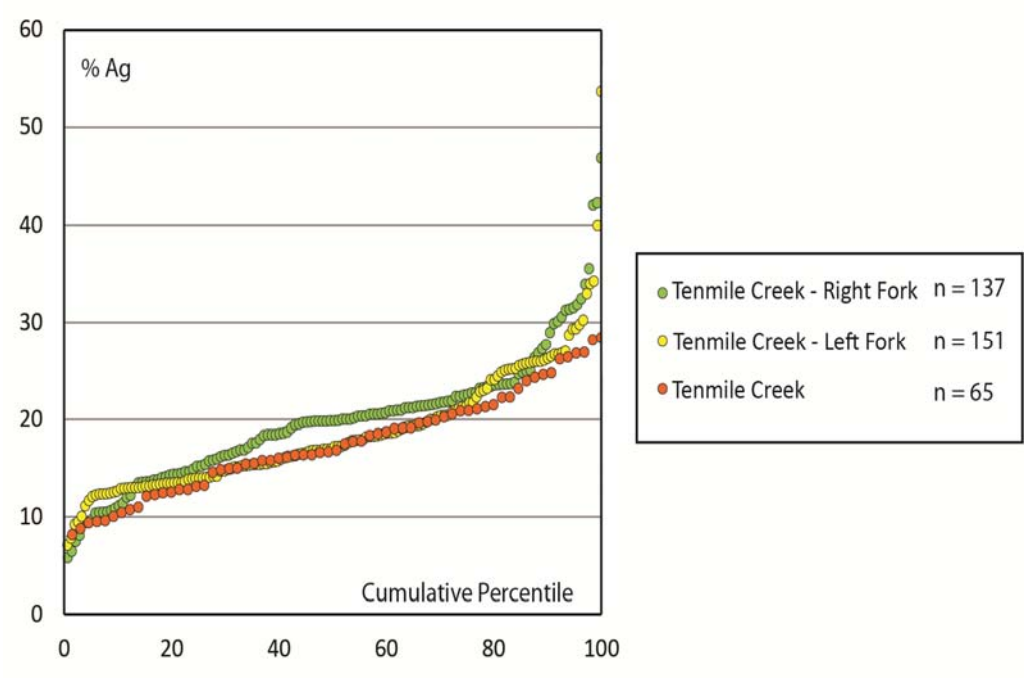


Figure 4. 9: Ag contents of placer gold samples within the Tenmile Creek drainage.

Inclusion Assemblage

The three samples display a consistent pyrite and arsenopyrite dominant inclusion assemblage with minor rutile, calcite and other rare inclusions (Yb-Si; As-Co-Ni-S; Appendix B.4).

HSF-%Au Data

Figure 4.10a-c is a series of HSF-%Au plots for the Tenmile Creek drainage. Morphological populations from the different sampling locations appear to record different transport histories based on calculated HSF values. Grains collected from the right fork display a larger range in HSFs (Fig. 4.10a) and display higher HSF values compared to the grains from the left fork (Fig. 4.10b). The grains collected on Tenmile Creek itself (Fig. 4.10c), display two distinct morphological groups, both with a similar range in Ag content.

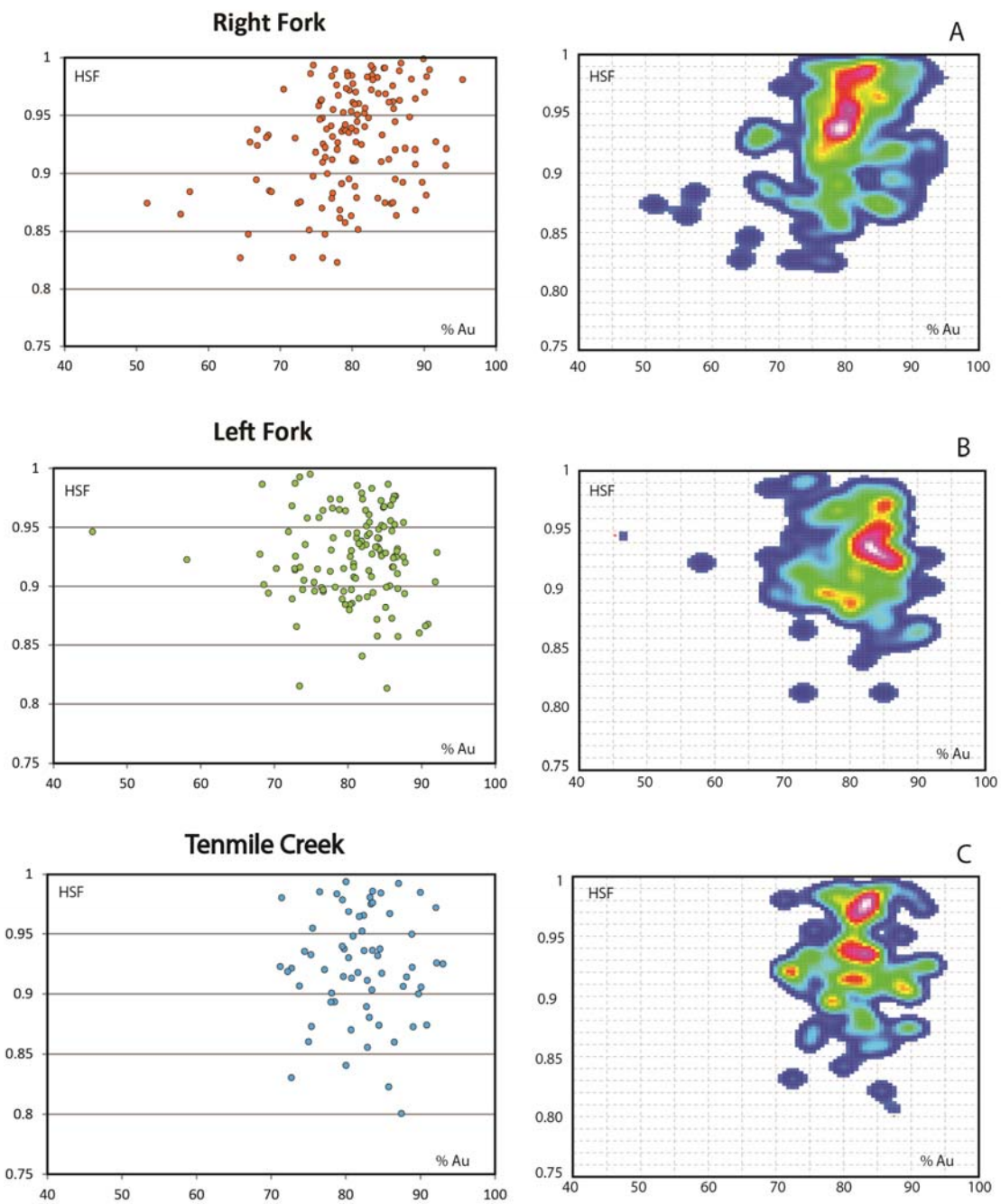


Figure 4. 10: HSF-%Au plots for the Tenmile Creek placer gold localities.

Distance-To-Source Calculations

Figure 4.11 displays the results of distance-to-source calculations for the Tenmile Creek drainage. Despite the small number of placer gold samples, clustering of distance-to-source calculations is observed. As seen in Figure 4.12 distance-to-source calculations are presented along with gold-in-soil anomalies (>20 ppb). In some cases, calculated source locations

correlate well with the location of soil anomalies within the drainage; however, as in the previous example (Henderson Creek) the technique may identify new areas of gold potential.

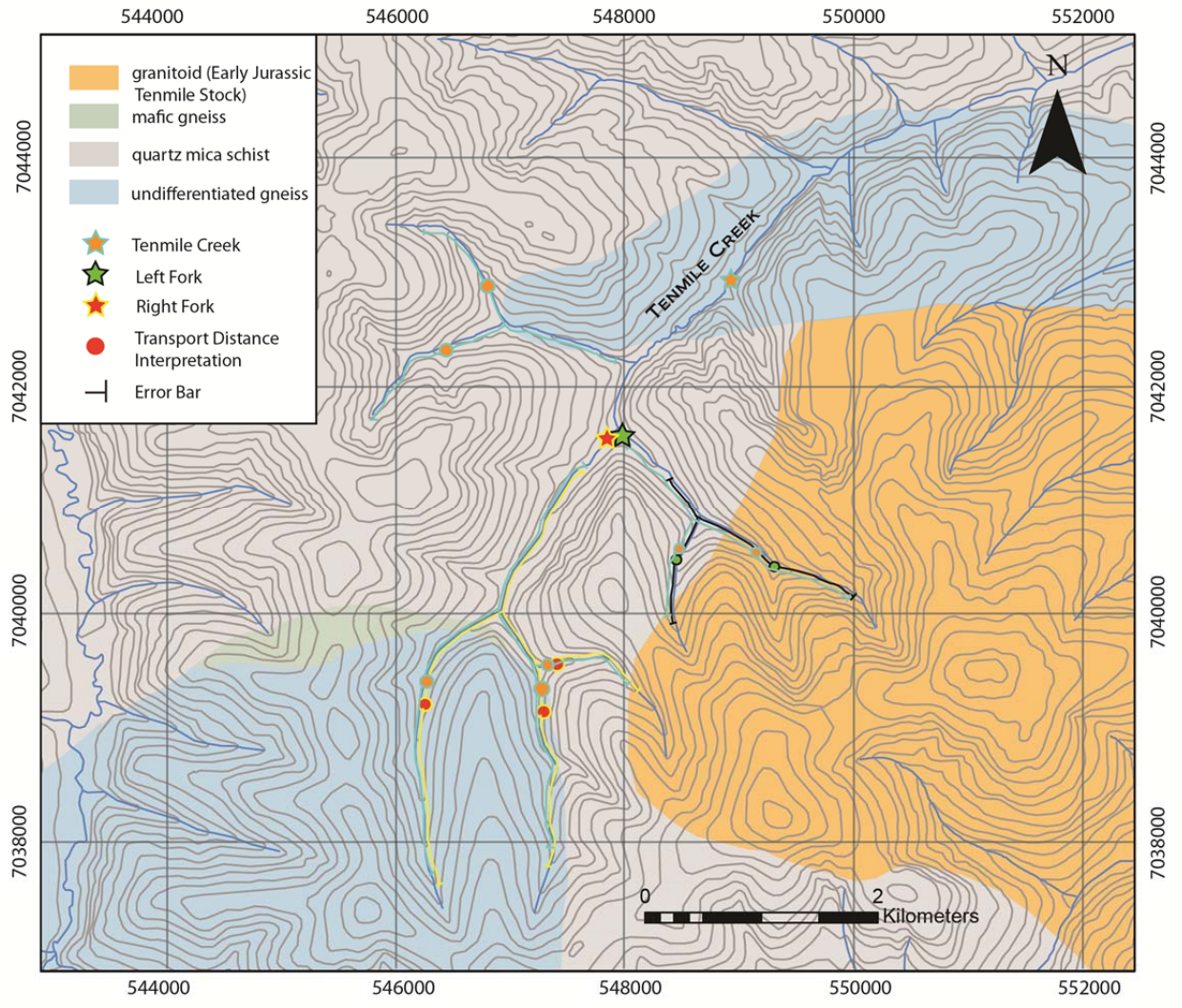


Figure 4. 11: Distance-to-source calculations for Tenmile Creek. Projection: NAD83 UTM zone 7N.

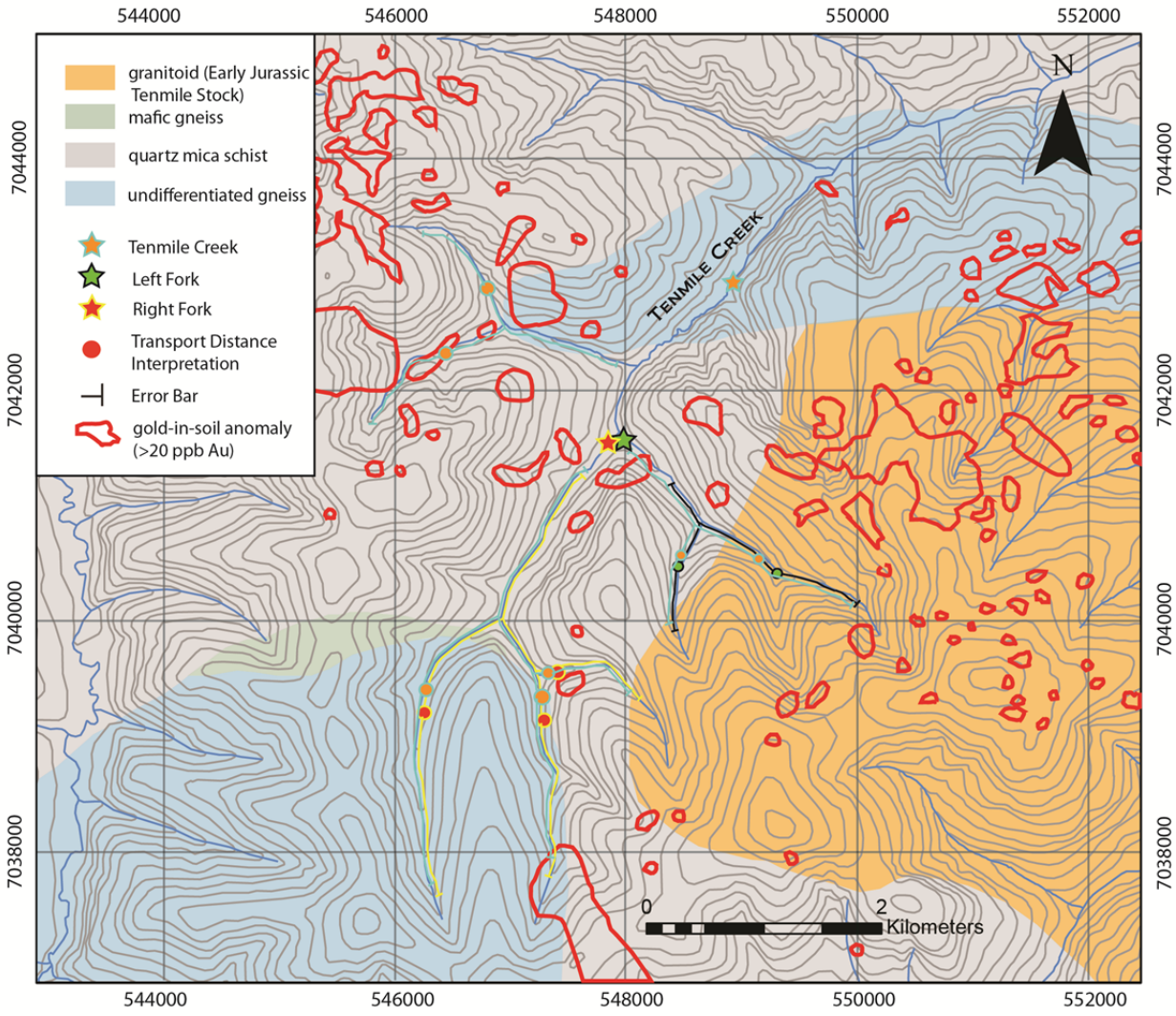


Figure 4. 12: Au-in-soil anomalies within the Tenmile Creek drainage (adapted from map provided by Rackla Metals Inc.). Projection: NAD83 UTM zone 7N.

4.3.3 Discussion

The suite of placer gold samples from the Tenmile Creek drainage indicates that gold has a consistent alloy composition and inclusion assemblage in all three gold samples, with pyrite and arsenopyrite being the dominant inclusion species. This mineral association is consistent with the quartz-pyrite-arsenopyrite association reported in surface rock samples (Pautler, 2012), and most likely suggests the presence of a single style of lode gold mineralization (that has reported to the placer inventory) within the drainage. Pautler (2012) proposed that gold mineralization present was associated with the Early Jurassic Tenmile stock (located on the southwestern side of Tenmile Creek; Fig. 4.8), although Allan et al. (in review) propose that mineralization is most

likely orogenic, and Middle to Late Jurassic in age based on structural similarities with the Golden Saddle deposit (Bailey, 2013).

It is permissible, however, that this arsenopyrite-rich inclusion signature is a manifestation of an As-rich aureole surrounding intrusion-related gold mineralization (Lang and Baker, 2001). Unpublished analysis of gold from Clear Creek (which drains the Clear Creek intrusion-related gold prospect, Tombstone Range, YT) displayed an inclusion assemblage largely of arsenopyrite (R. Chapman pers. comm.), it could be argued that such a signature is compatible with intrusion-related gold in the Tenmile Creek drainage. However, arsenopyrite is also a common accessory mineral in orogenic gold systems (Goldfarb et al., 2005) and is commonly recorded as an inclusion species within gold grains derived from orogenic mineralization (Chapman et al., 2009). In the Yukon, arsenopyrite is the diagnostic indicator of placer gold in the Last Chance Creek-Bear Creek area of the Klondike District (Chapman et al., 2010a). It has also been recorded in placer gold from the Sixtymile District (see Chapter 6), and to a lesser extent in gold populations from Hunker Dome (Klondike; Chapman et al., 2010b) and the Indian River (Chapman et al., 2011) all of which are now interpreted to be sourced from orogenic gold-bearing quartz veins.

Several factors are consistent with an orogenic style of mineralization in the Tenmile Creek drainage: (1) morphological evidence in placer samples for multiple sources of bedrock gold mineralization (Fig. 4.12); (2) association of gold mineralization with silicification and brecciation (e.g., White Gold area; Bailey et al. (2013)); (3) similar inferred structural parameters to the orogenic White Gold system (Allan et al., in review; Bailey, 2013). Furthermore, the close association between gold, pyrite, and arsenopyrite has been observed in other placer gold-rich drainages in the project area (e.g., Last Chance Creek, Klondike District), which are not associated with intrusive lithologies and are derived from orogenic mineralization (Chapman et al., 2010b). The Early Jurassic age of the intrusion and the inferred Late Jurassic age of mineralization (Allan et al., in review) are consistent with an intrusion-hosted, orogenic gold system.

4.3.4 Conclusion

A mineralogical correlation is observed between bedrock information (i.e., pyrite-arsenopyrite association of Pautler, 2012) and placer gold inclusion assemblages in the Tenmile Creek drainage. The consistent microchemical signature suggests that one style of mineralization dominates the area, and that gold is derived from gold-bearing orogenic veins, contrary to previous suggestions of an intrusion-related origin. The mineralization is likely structurally controlled and is inferred to post-date the emplacement of the Early Jurassic Tenmile stock, but is at least partly hosted by this unit.

5 Reconnaissance Study Of Placer Gold From The Dawson Range: Intrusion-Related Gold

5.1 Introduction

The Dawson Range comprises a mainly mid-Cretaceous magmatic arc along the southwestern portion of the Yukon-Tanana terrane (Fig. 5.1) where it has been intruded by Late Cretaceous and Early Tertiary plutonic rocks. An early Late Cretaceous pulse of magmatism (79-72Ma) is confined to a narrow, 120 km long, northwest trending corridor (intrusions too small to represent in Fig. 5.1) that is associated with the Casino, Sonora Gulch and Revenue-Nucleus porphyry systems (Table. 5.1).

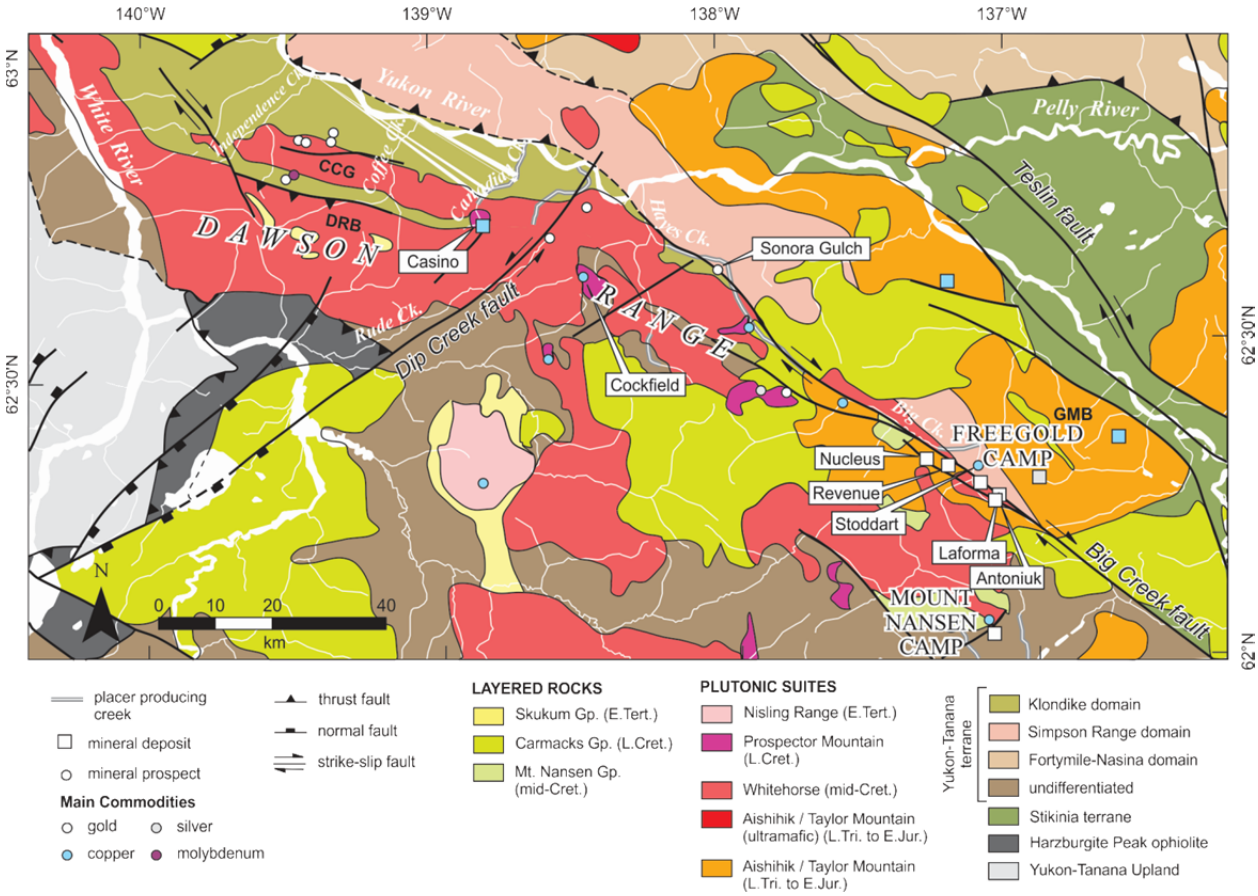


Figure 5. 1: Geology and mineral occurrences within the Dawson Range (adapted from Allan et al., in review). CCG-Coffee Creek granite, DRB-Dawson Range batholith, GMB-Granite Mountain batholith. Projection: NAD83 UTM zone 7N.

Table 5. 1: Resource estimation of deposits within the Dawson Range.

Deposit	Deposit Type	Resource Category	Resource Estimates
Revenue	Au-Ag-Cu-Mo	Inferred	101 Mt grading 0.34 g/t Au, 3.14 g/t Ag, 0.13% Cu and 0.04% Mo (1.1 Moz Au, 10.2 Moz Ag, 287 Mlbs Cu and 90 Mlbs Mo. Northern Freegold Resources Ltd. (Armitage et al., 2012)
Nucleus	Au-Ag-Cu	Indicated	71.9 Mt grading 0.57 g/t gold, 0.85 g/t Ag and 0.06% Cu (1.31 Moz Au, 1.97 Moz Ag, 89 Mlbs Cu. Northern Freegold Resources Ltd. (Campbell et al., 2013)
Casino	Cu-Mo-Au	Measured + Indicated (supergene + hypogene zones)	1,137.5 Mt grading 0.19% Cu, 0.23 g/t Au, 0.021% Mo and 1.65 g/t Ag (8.9 Moz Au, 4.5 Blbs Cu and 483 Mlbs Mo. Western Copper and Gold. (Giroux and Casselman, 2010)

The present study involved a systematic investigation of placer gold grain signatures from the Freegold Camp in the eastern Dawson Range (Fig. 5.1), in addition to a reconnaissance scale examinations of placer-lode relationships in the nearby Seymour Creek drainage (identified on Fig. 5.1 by the location of the Laforma and Antoniuk deposits).

5.2 Nucleus And Revenue Deposit Area

5.2.1 Introduction

The Nucleus and Revenue deposits are situated within the Big Creek fault system (Fig. 5.1). Exploration activity in the area by Northern Freegold Resources Ltd., since the consolidation of claims in 2006, led to the definition of the Nucleus deposit (Armitage and Campbell, 2011). A Titan-24 induced polarization (IP) survey carried out over the Nucleus deposit and adjacent Revenue prospect in 2010 revealed a large ~2.5 x 6km chargeability anomaly centred on the Revenue breccia (Fig. 5.4). An inferred resource was defined for the Revenue deposit in 2012 (Table 5.1).

The geology of the Nucleus and Revenue deposit area is characterized by Paleozoic metasedimentary rocks (dominated by biotite-muscovite schist) that are intruded by a mid-Cretaceous suite of leucogranite, biotite granite, biotite granodiorite, and a younger suite of early Late Cretaceous porphyritic dikes and intrusive breccia bodies (Allan et al., 2012b). The

Revenue deposit is mainly hosted by a clast- to matrix-supported, monomictic to polymictic breccia pipe and has steep contacts with adjacent plutonic and metasedimentary rocks. Field and U-Pb dating studies indicate that the Revenue breccia is an intrusive body formed at 76 – 75 Ma by the fragmentation of gas-charged porphyritic magma. The Nucleus deposit is hosted by a range of rock types, including Paleozoic biotite-muscovite schist, mid-Cretaceous quartz-monzonite, granodiorite and microgranite intrusions, and early Late Cretaceous (76 – 75 Ma) porphyritic dikes and intrusive breccia bodies.

Mineralization at Nucleus and Revenue is interpreted to be genetically associated with early Late Cretaceous magmatic intrusions and related breccias, and exhibits a range of ore mineral associations (Allan et al., 2012b). At the Nucleus deposit, mineralization is present as veinlets, disseminations, and zones of semi-massive replacement-style sulphide, and is characterized by quartz-pyrite-chalcopyrite-carbonate ± marcasite-pyrrhotite-arsenopyrite-galena-Bi-Te-(S)-gold. This association is shown in Figure 5.2, which shows that gold is intimately associated with pyrrhotite, pyrite, and a Bi and Te-bearing mineral that is probably tetradyamite (Bi_2Te_2S) (R. Chapman. pers. comm.; Allan et al., 2012b).

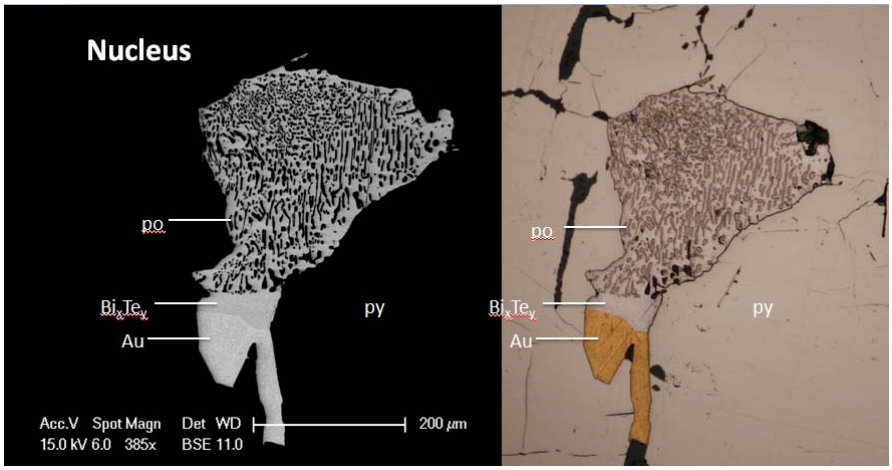


Figure 5. 2: Lode gold sample from the Nucleus zone displaying an intimate association with bismuth telluride; Au – gold, po - pyrrhotite, py – pyrite, Bi_xTe_y – undetermined bismuth telluride (also defined as Bi-Te; Allan et al., 2012b).

At the Revenue deposit, mineralization is present as disseminations and clots of pyrite, chalcopyrite and molybdenite in the matrix of the Revenue breccia (Fig. 5.4). Chalcopyrite-pyrite ± quartz veinlets also cut the matrix and clasts of the Revenue breccia. Later quartz-pyrite ± marcasite-pyrrhotite-chalcopyrite-arsenopyrite-gold veins and breccia cavity

replacement and/or fill occur. Within the granodiorite unit adjacent to the Revenue breccia, early magnetite ± pyrite-chalcopyrite veinlets are cross cut by quartz-molybdenite-chalcopyrite-pyrite ± pyrrhotite-scheelite-powellite-calcite veins (Allan et al., 2012b).

The main placer producing creeks draining the Nucleus and Revenue zones are Mechanic and Revenue creeks, respectively (Fig. 5.4). Revenue Creek produced approximately 10,000 oz of placer gold between 1964 and 2004 and Mechanic Creek produced approximately 2,800 oz of gold between 1978 and 2009 (LeBarge, 2007).

The distribution of placer gold in both Mechanic and Revenue creeks is not suggestive of liberation from a single point source in the headwaters. In Revenue Creek, the richest placers were mined at the confluence of upper Revenue Creek and Whirlwind Creek, and in the middle and lower segments of Revenue Creek (J. Gow pers. comm.; Fig. 5.4). The upper portions of these creeks have not been mined, which suggests that the overall placer grade is relatively low. Similarly, the distribution of placer gold in Mechanic Creek is suggestive of multiple points of influx. Figure 5.3a-c shows images of gold grains taken from various parts of the Revenue and Mechanic drainages. The presence of pristine delicate wire gold (Fig. 5.3b) and gold coated by Bi- and Te-bearing minerals (Fig. 5.3a; hardness = 2; R. Chapman pers. comm.) confirm that transport of placer gold grains is often negligible within these drainages, and strongly suggests proximal sources.

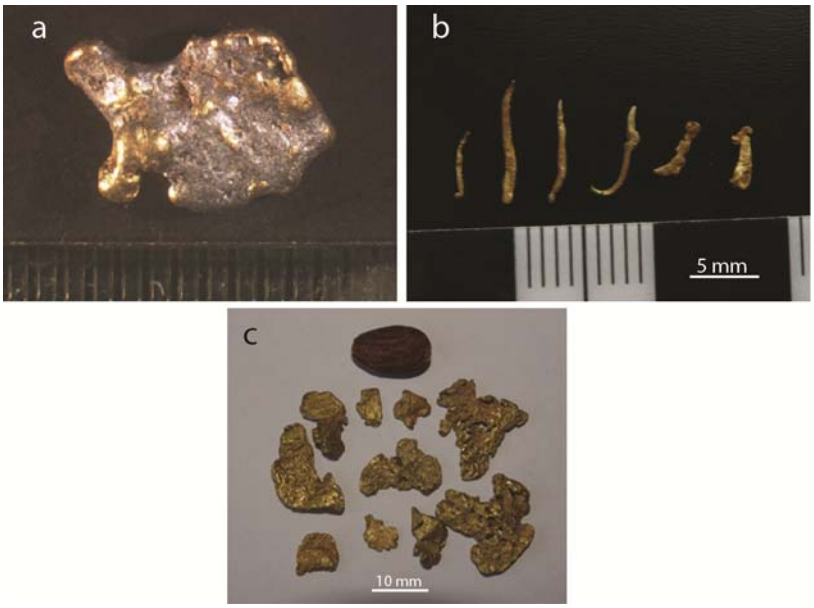


Figure 5. 3: Example of gold from Mechanic and Revenue creeks (John Gow collection) which indicate very small degrees of fluvial transport. (a) Bi-Te mineral coating on a 1 g nugget; (b) wire gold (lower Revenue Creek); (c) coarse, rough gold (mid-Mechanic Creek.

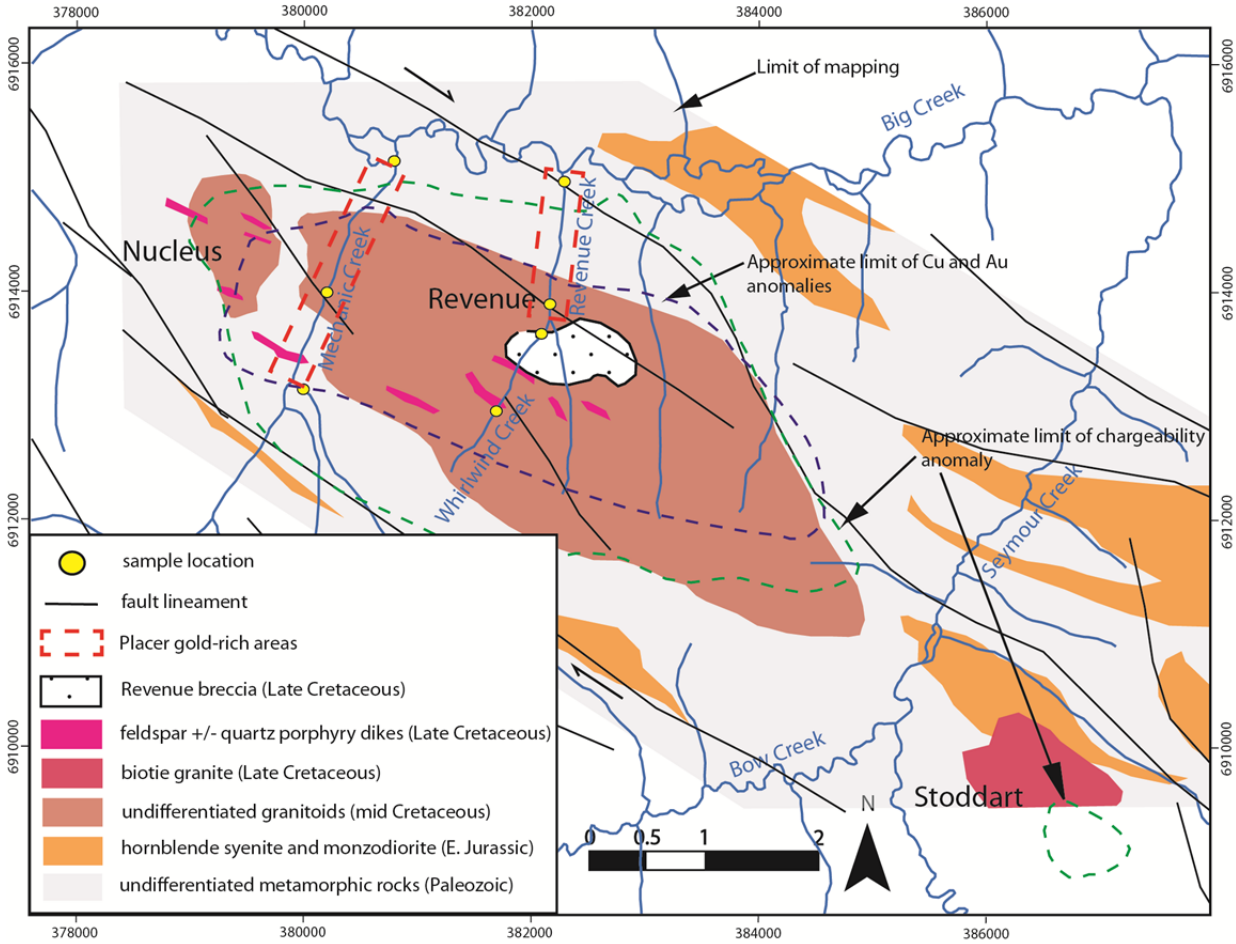


Figure 5. 4: Simplified geological map and sample locations around the Revenue-Nucleus deposit area (adapted from Allen et al., 2012b; Gordey and Makepeace, 1999). Projection: NAD83 UTM zone 8N.

5.2.2 Results

Alloy Composition

Figure 5.5 displays the Ag content of the three gold samples from Mechanic Creek (Mechanic Creek-Left Fork, mid-Mechanic Creek and lower Mechanic Creek), which are nearly coincident, exhibiting a median Ag concentration of 7.5%, 8.6% and 7.1%, respectively (Table 5.2).

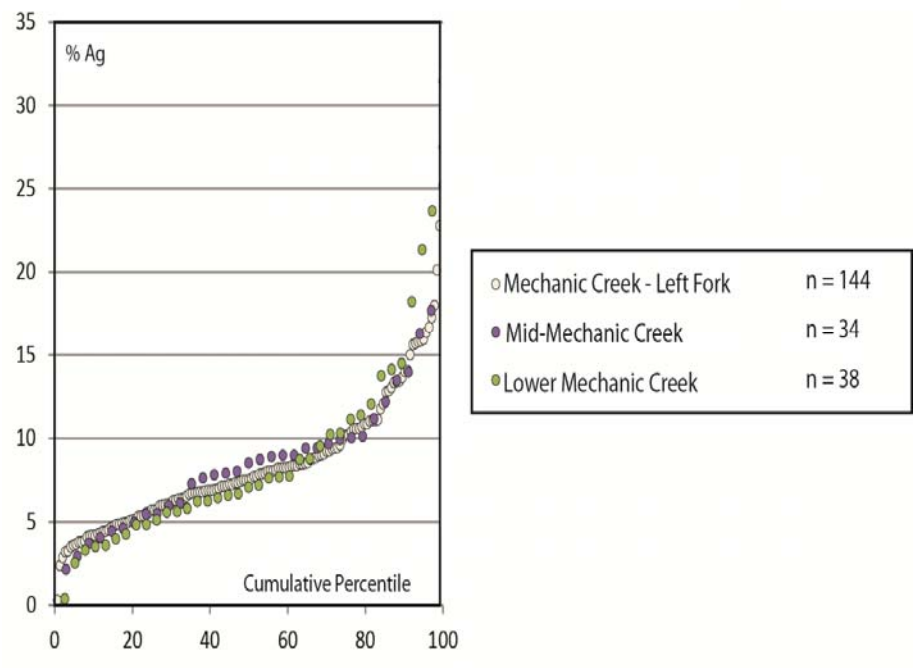


Figure 5. 5: Ag content of placer gold samples along Mechanic Creek.

Figure 5.6 displays the Ag contents for gold samples along Revenue Creek; these exhibit a slightly larger variation in Ag content (~3-33% Ag) than those from Mechanic Creek (~1-24% Ag). Hg values in gold alloy were universally low or below detection in all gold samples, exhibiting a maximum concentration of 0.8% Hg (detection limit of 0.2% Hg) and therefore are not considered further in the following discussion. However, Cu values in gold alloy are observed in all gold samples, exhibiting a maximum of 0.08% Cu. Revenue Creek gold contains a lower percentage of Cu-bearing gold alloys (9.5-25%) than grains from Mechanic Creek (21.2-26.3%). These minor differences in the abundance of Cu-bearing alloys are interpreted to simply indicate the presence of low levels of Cu in gold alloy in all samples.

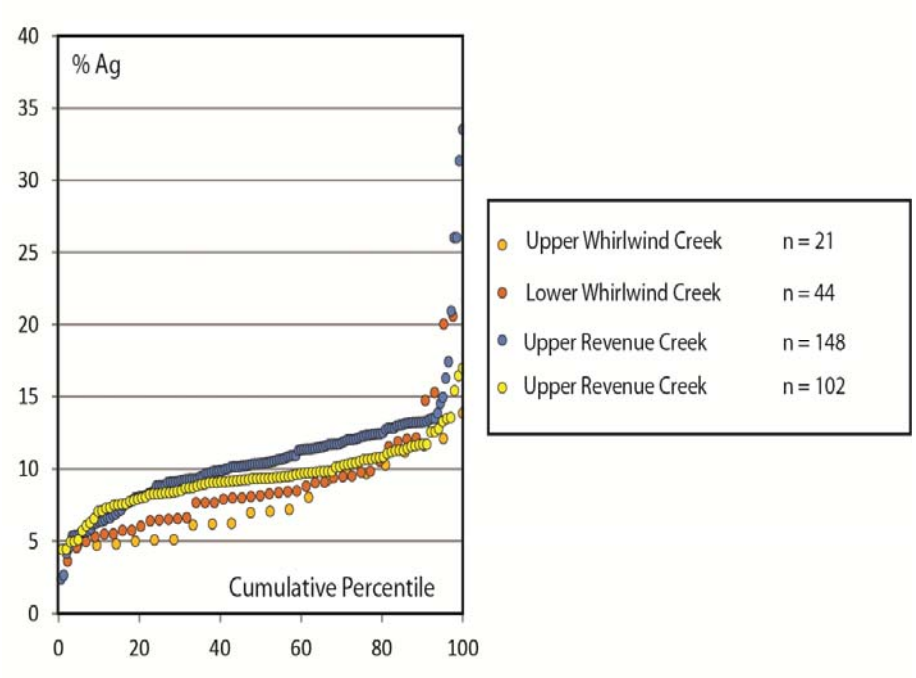


Figure 5. 6: Ag content of placer gold samples along Revenue Creek.

The upper Revenue sample contains a small proportion (~7.5%) of grains which displayed a heterogeneous alloy composition (Fig. 5.7). The first phase (as deduced from relative spatial relationships in cross section) corresponds to a similar range in Ag content (~3-20%) to that observed in the other samples along Revenue Creek; however, the second gold phase contains significantly higher levels of Ag (~15-50%).

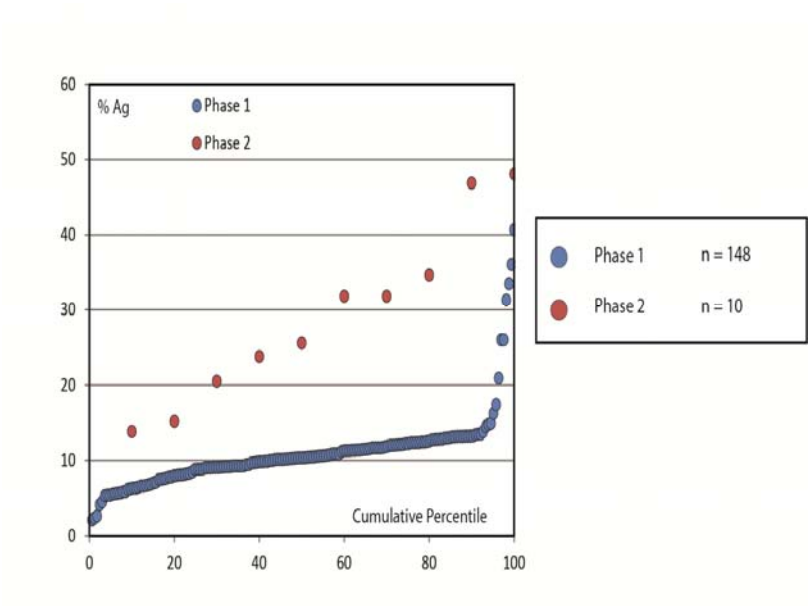


Figure 5. 7: Two alloy phases observed within the upper Revenue placer gold population.

Inclusion Assemblage

A summary of the inclusion assemblages in placer gold populations from both Revenue and Mechanic creeks is presented in Table. 5.2. Bi-bearing inclusion species are present in all gold samples.

Table 5. 2: Microchemical signature of gold grains from Revenue Creek and Mechanic Creek.

Locality	N (number of grains)	Median Ag (%)	Cu bearing (%)[1]	Hg bearing (%)[2]	Inclusion Assemblage
Revenue Creek Drainage					
Upper Whirlwind Creek	21	7.0	9.5	nil	Bi-CO_3, galena
Lower Whirlwind Creek	44	8.2	25	4.5	pyrrhotite, galena, Bi-Te, Bi-S, chalcopyrite
Upper Revenue Creek	148	10.3	10.8	0.7	pyrite, chalcopyrite, galena, Bi-Te
Lower Revenue Creek	102	9.3	15.9	nil	abundant galena, Bi-Te, pyrite, Bi-CO_3, Pb-Te, pyrrhotite
Mechanic Creek Drainage					
Mechanic Creek - Left Fork	144	7.5	21.5	nil	abundant Bi-Te and Bi-CO_3, arsenopyrite, chalcopyrite, galena
Mid-Mechanic Creek	34	8.6	21.2	2.9	Less abundant inclusions: Bi-Te, Bi-S, pyrrhotite
Lower Mechanic Creek	38	7.1	26.3	5.3	Bi-Te dominant, Bi-CO_3, galena, pyrrhotite, chalcopyrite

[1] Cu bearing refers to the percentage of grains that contain Cu above the detection limit of 0.05%.
[2] Hg bearing refers to the percentage of grains that contain Hg above the detection limit of 0.2%

HSF-%Au Data

Figure 5.8a-c is a series of HSF-%Au plots for Mechanic Creek samples. Both mid-Mechanic Creek and lower Mechanic Creek samples contain a small number of grains (34 and 38 grains, respectively); however, this series of plots display a possible decrease in HSF downstream (change in median HSF value from 0.95 to 0.89). This pattern is quite different from that observed in the series of HSF-%Au plots for Revenue Creek (Fig. 5.9a-d). In the latter case, more spherical gold grains (HSF values closer to 1) are observed in gold samples along the whole length of Revenue Creek; furthermore, the range in HSF values is observed to increase downstream.

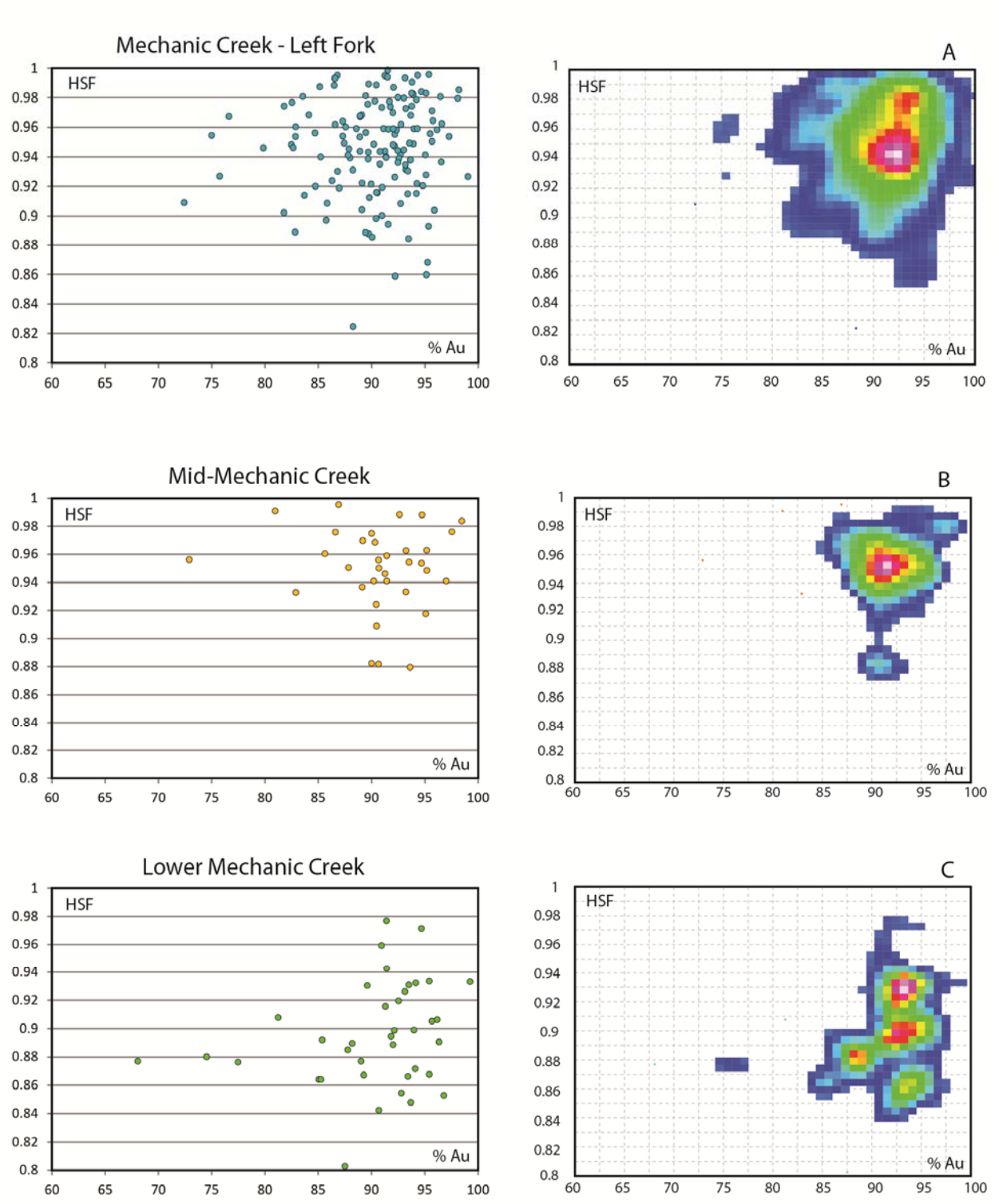


Figure 5. 8: HSF-%Au diagrams for placer gold samples along Mechanic Creek.

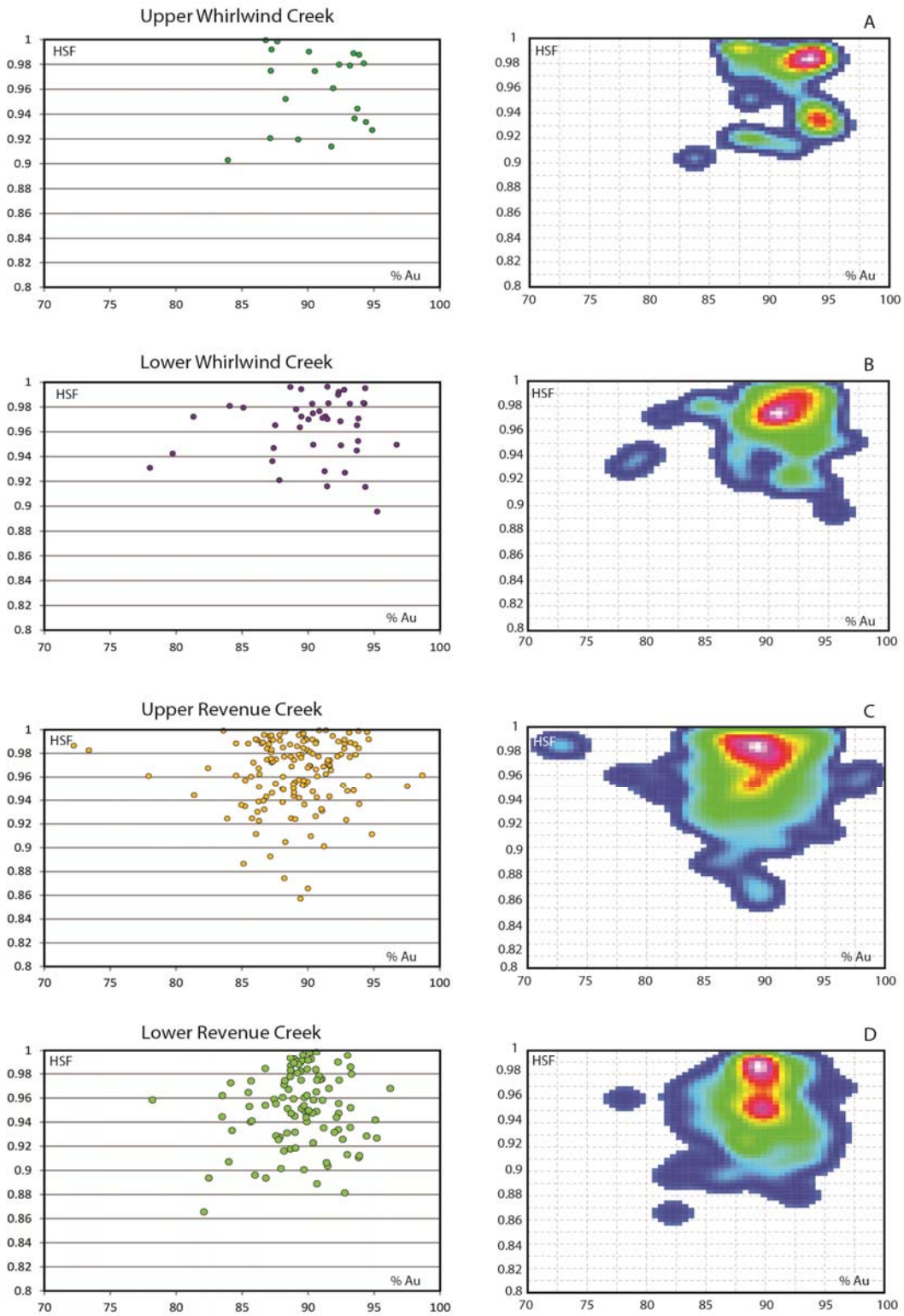


Figure 5. 9: HSF-%Au diagrams for placer gold samples along Revenue Creek.

5.2.2 Discussion

Morphological analysis of Mechanic Creek placer gold samples suggests a possible decrease in HSF downstream (change in median HSF value from 0.95 to 0.89), which is consistent with gold grains being modified with fluvial transport from an upstream source. The size of the placer gold samples collected within the Mechanic Creek drainage was limited as a function of restricted sampling of recently mined areas. As such, these results are deemed less representative of the placer gold inventory. An alternative explanation is that gold is liberated along the length of Mechanic Creek based on the distribution of placer gold observed in the commercial placer operation (J. Gow pers. comm.); together with the presence of gold grains that are characteristic of limited fluvial transport (Fig. 5.3). Revenue Creek also exhibits gold grains characteristic of limited fluvial transport, and morphological analysis of Revenue Creek gold (based on larger, more representative samples) identifies that sub-spherical grains (i.e., HSF values closer to 1) are present along the length of the creek (Fig. 5.9a-d). This is consistent with the input of gold from numerous or diffuse bedrock gold sources along the whole length of Revenue Creek. Based on placer abundance and the presence of characteristics grains shapes (Fig. 5.3a-c), gold is interpreted to be liberated along the length of both creeks.

The inclusion assemblages are similar in gold samples from Mechanic and Revenue creeks and comprise an undetermined Pb-Bi sulphide, bismuthinite (Bi_2S_3), tetradymite (Bi_2Te_2S), galena, chalcopyrite, pyrrhotite and arsenopyrite. Pb-Bi sulphide, bismuthinite and tetradymite mineral inclusions correspond well with lode gold observations from the Nucleus zone, which display a close Bi-Te mineral-gold association (Fig. 5.2; Allan et al., 2012b). In addition, galena, chalcopyrite, pyrrhotite and arsenopyrite are observed in mineralized ore material from the Revenue and Nucleus deposits (Allan et al., 2012b). These observations thereby establish a clear placer-lode relationship within these drainages.

Mechanic and Revenue creeks drain the Nucleus and Revenue deposits, respectively. Currently, these deposits are treated as discrete deposits (Table 5.1); however, geological, geophysical (IP), and geochronological evidence suggests that these deposits are part of a larger magmatic-hydrothermal system centred on the Revenue deposit, and that the Nucleus deposit is peripheral to the system (Allan et al., 2012b). This model is supported by the presence of a

large Au- and Cu-in-soil anomaly encompassing both deposits (Fig. 5.4). The microchemical signature of placer gold collected from Mechanic and Revenue Creeks are very similar, which is compatible with the liberation of gold from the same mineralized system.

Chapman et al. (2012) compared the signatures discussed here for Mechanic and Revenue creeks with placer gold from the environs of the Casino and Sonora Gulch prospects (Fig. 5.1). Whilst the Nucleus and Revenue resource is a recent addition to significant lode mineralization currently identified within the Dawson Range, the Casino Cu-Au-Mo deposit (in the headwaters of Canadian Creek; Fig. 5.1) is a well characterized porphyry system (Giroux, 2010). In 2011, Northern Tiger Resources reported another Cu-porphyry system in the vicinity of Sonora Gulch (Fig. 5.1; Bennett et al., 2010). Geochronological studies confirm that Casino and Sonora Gulch are equivalent in age to the Nucleus-Revenue system at ~76-75 Ma (Selby and Creaser, 2001; Bennett et al., 2010; Allan et al., in review). Unpublished data (Chapman pers. comm.) also shows a Bi-Te-S-Sb inclusion signature in placer gold from Sonora Gulch and the presence of Bi-, Te- and Pb-bearing minerals as inclusions in gold from Canadian Creek, which drains the Casino deposit. Currently, further work is under way which seeks to establish whether this inclusion signature can be used as a pathfinder for Au-Cu porphyry systems.

5.2.3 Conclusion

Anecdotal evidence on gold abundance from commercial mining operations (J. Gow pers. comm.), the occurrence of gold grains coated in Bi-Te, and the presence of grains shapes (Fig. 5.3a-c) characteristic of limited fluvial transport indicate that gold is being liberated along the length of both Revenue and Mechanic creeks.

The microchemical signature of placer gold grains from the Nucleus (Mechanic Creek) and Revenue (Revenue Creek) area can be confidently linked with the mineralogy of lode gold grains from the Nucleus zone. Furthermore, the very similar signature observed in both creeks supports a large mineralizing system that includes both the Nucleus and Revenue deposits. The microchemical signature observed here is distinctive, and appear to be very similar to two other economically important Au-Cu porphyry systems (Chapman et al., 2012b) that belong to a common magmatic-hydrothermal metallogenic event in early Late Cretaceous time (Allan et al., 2012b).

5.3 Seymour Creek Drainage

5.3.1 Introduction

Seymour Creek is a 24 km long, north-flowing tributary of Big Creek, located 6 km southeast of the Nucleus and Revenue deposits (Fig. 5.1). The area is metallogenically complex and several gold-bearing occurrences of varying styles occur within the area, of which the Stoddart Cu-Au occurrence has been drilled (Bineli Betsi and Bennett, 2010; Bineli Betsi and Lentz, 2011) and the Laforma deposit was a past gold producer (McInnes et al., 1990).

The Seymour Creek drainage also lies within the Big Creek fault system (Hayward et al., 2012) and is underlain by Paleozoic basements rocks of the Yukon-Tanana terrane, Early Jurassic plutonic rocks and mid-Cretaceous granitoids of Dawson Range batholith affinity.

A variety of styles of mineralization are present within the drainage including epithermal gold-quartz veins, vein-breccias, polymetallic veins, Au-skarns and porphyry-style mineralization. The quality of information available for each occurrence is variable and Table 5.3 presents a summary of information from Yukon MINFILE reports that have been used to inform interpretations of placer gold microchemical signatures collected in this study.

The Stoddart Cu-(Au-Mo) prospect is hosted predominantly in magnetite-bearing, biotite granite. The granite is cut by a variety of porphyry dikes with a high-K calc-alkaline affinity (Bineli Betsi and Bennett, 2010; Bineli Betsi and Lentz, 2011). Mineralization at the Stoddart prospect is characterized by disseminated chalcopyrite ± molybdenite ± scheelite mineralization and as sheeted to stockwork quartz-molybdenite-chalcopyrite-scheelite ± pyrite veins (Allan et al., 2012b). Bineli Betsi and Bennett (2010) also report Cu mineralization associated with andesite porphyry dikes. Furthermore, a Titan-24 survey, which was carried out over the Nucleus and Revenue deposit area was extended to the east to include the Stoddart prospect (Northern Freegold Resources Ltd.). This revealed a chargeability anomaly over the Stoddart prospect area, similar to that observed over the Nucleus and Revenue deposits to the west (Fig. 5.4).

The Laforma deposit located in the upper part of the Seymour Creek (Fig. 5.10) is characterized as an atypical epithermal-Au system (McInnes et al., 1990), comprising a massive white quartz

vein containing sulphides and tourmaline, which is locally brecciated. Arsenopyrite, pyrite, tourmaline, gold, galena, sphalerite, chalcopyrite, tennantite and barite are observed in mineralized veins (McInnes et al., 1990) and vertical zonation is evident in the vein mineralogy: tourmaline, galena, Fe-rich sphalerite and chalcopyrite are observed at depths of 175 m, but are virtually absent at higher levels. Gold is observed in thin section as inclusions within arsenopyrite (McInnes et al., 1990) and SEM-EDS analysis of gold particles indicates very low (<5%) Ag content within gold alloy (McInnes et al., 1990). Abundant CO_2 fluid inclusions were identified in vein quartz from the Laforma deposit, and McInnes et al. (1990) interpreted that the amount of CO_2 present in the hydrothermal fluid indicates that the observed breccia textures are derived from explosive upward venting of CO_2 gas in an evolving hydrothermal system.

Seymour Creek produced 3,355 oz of placer gold between 1983 and 2001 (LeBarge, 2006). Gold grains are described as having been mainly worn and fine grained, with some larger nuggets containing quartz (LeBarge, 2007).

A suite of five placer gold samples were collected from the Seymour Creek drainage: four from Seymour Creek itself, and a single sample from Guder Creek, which drains the Guder MINFILE occurrence (Fig. 5.10).

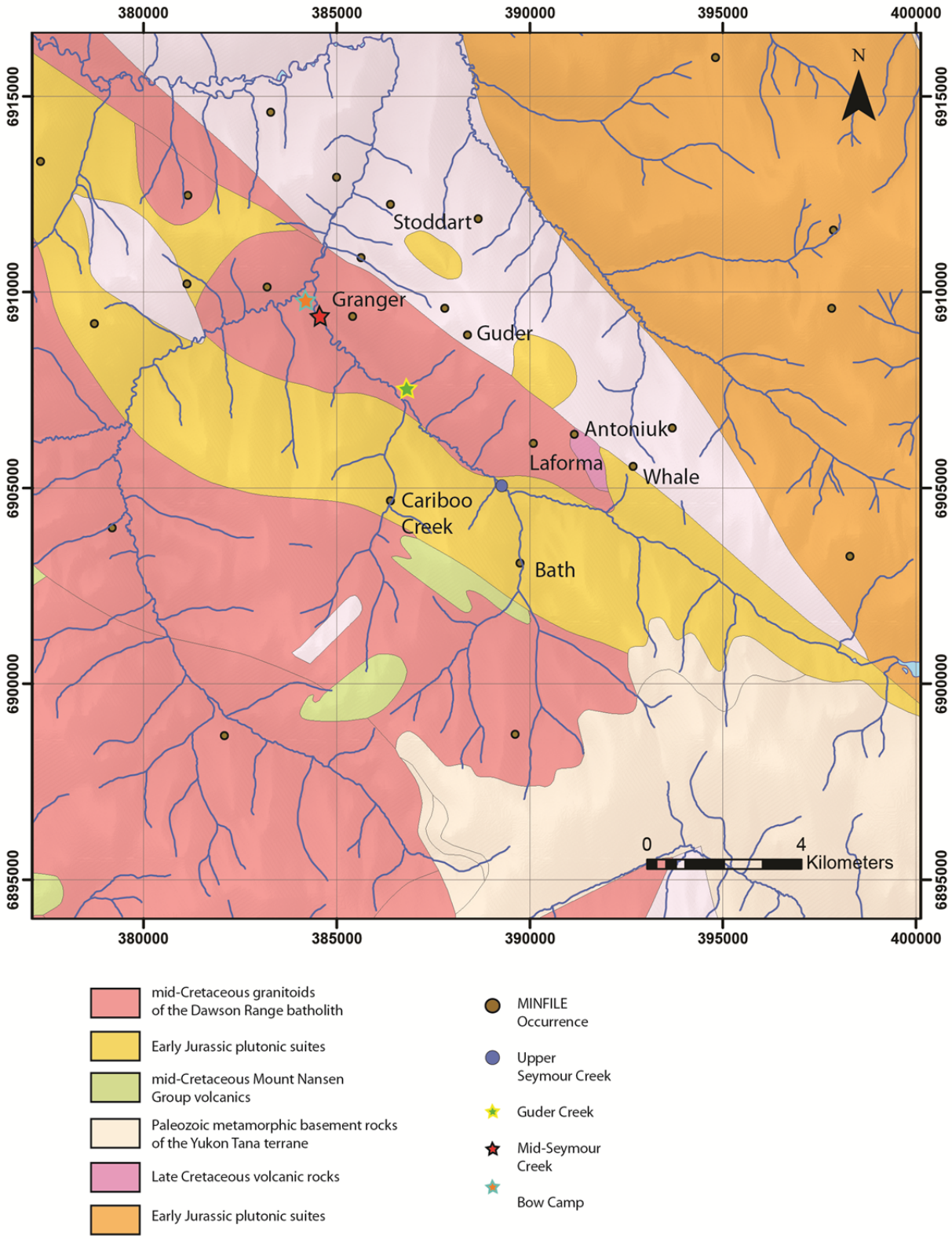


Figure 5. 10: Geology and MINFILE occurrences in the Seymour Creek drainage (occurrences relevant to this study are named). Projection: NAD 83 UTM zone 8N.

MINFILE Reference number	MINFILE Occurrence	Deposit Type	Commodities	Geological Comments
115I 111	Antoniuk	Subvolcanic Cu-Au-Ag (As-Sb)	Au, Ag	Northeast striking, steeply west-dipping veins associated with, As (over 250 ppm) and Au (over 160 ppb) soil anomalies. Drilling revealed a 300 by 450 m area with gold values averaging 0.5 g/t in an intrusive breccia and porphyry complex of the Early Cretaceous Dawson Range plutonic suite. The suite is cut by fractures and quartz veins containing minor arsenopyrite, chalcopyrite, tetrahedrite and sulphosalts.
115I 050	Granger	Porphyry Cu-Mo-Au	Au, Mo, Cu, Ag	Gold occurs with minor chalcopyrite, pyrite and a trace of molybdenite in a steeply dipping, northwest-trending shear zone (8 m wide) and in a narrow northwest-trending vein (2 m wide), which lies 20 m to the east. The structures lie within identified geochemical anomalies. The shear zone and vein cut Early Cretaceous Casino granodiorite and Cretaceous to Paleocene hornblende-feldspar porphyry dykes which intrude Paleozoic gneiss and schist. Mineralized zones are leached at surface. Trenching of geochemical anomalies uncovered a limonitic breccia zone in granodiorite (massive limonite and geothite cross-cut by quartz-calcite veins).
115I 054	Laforma	Epithermal Au-Ag-Cu: High sulphidation	Ag, Au, Cu, Pb, Zn	More than 10 northeast-trending and steeply northwest-dipping quartz veins cut complex and strongly altered Cretaceous Casino granodiorite of the Dawson Range plutonic suite. The best vein (G-3) is in a shear zone up to 2.4 m wide consisting of brown-stained vein quartz, with fine disseminations of pyrite and arsenopyrite. Seams of pyrite and occasionally arsenopyrite, chalcopyrite, sphalerite and galena, are also present. Gold occurs mainly as fine disseminations of free gold in quartz
115I 105	Meridian	Polymetallic veins Ag-Pb-Zn ± Au	Ag, Zn, Pb	Minor galena and sphalerite occur in a vein zone that cuts chlorite schist and quartz diorite.
115I 121	Stoddart	Au-quartz veins	Au, Pb, Ag, Cu, Zn	Hornblende-biotite-feldspar gneiss and schist are intruded by a hornblende porphyritic syenite stock of the Early Jurassic Mount Freegold meta-plutonic Suite. The stock lies within an area containing swarms of mid-Cretaceous porphyry dikes of the Mount Nansen Group. West-northwest trending gold and arsenic in soil anomalies are observed to be roughly parallel with major fault structures and the inferred orientation of dike swarms in the area.
115I 049	Caribou Creek	Au-quartz veins	Au, Ag	Coarse free gold occurs in quartz veinlets and quartz-flooded breccia zones near the remnant of a volcanic feeder; possibly related to the Late Cretaceous Carmacks Group volcanic rocks which cross-cut the Caribou Creek conglomerate and associated graphitic siltstones (unique to area). Gold appears to be related to contacts between the volcanic feeder and the basal part of the graphitic unit. The zone appears to trend northeast at the discovery showing, but nine drill holes intersected a 2.6 m thick mineralized zone trending 340° and dipping 50° to the east.
115I 112	Whale (Goldy)	Au-quartz veins	Au, Ag	The northeast-striking Goldy zone is a large zone of silicification, alteration and disseminated sulphides, southeast of the Whale vein (west striking quartz-feldspar porphyry dike which crosscuts Early Jurassic syenite porphyry). The zone lies along the contact of the Jurassic Big Creek syenite and Late Devonian to Mississipian granodiorite gneisses. Gold mineralization is hosted within a zoned body of a highly altered dacite porphyry containing quartz veins and vein stockworks.
115I 053	Guder	Au skarn	Au, Ag	Gold bearing veins and skarns occur in a roof pendant of Paleozoic metasedimentary rocks enclosed in Mesozoic syenite and granodiorite. Mineralized zones trend west north west. Sulphide minerals present include pyrite and lesser arsenopyrite and chalcopyrite.
115 088	Bath	Alkalic Cu-Au	Cu, Au, Sb	Granitic and syenite intrusions are cut by quartz-feldspar porphyry dikes and are partially overlain by mafic volcanic rocks. Exploration has focused on finding gold-bearing stockwork bodies and gold-quartz veins similar to the Caribou Vein

Table 5. 3: Summary of the MINFILE occurrences in the Seymour Creek drainage.

5.3.2 Results

Alloy Composition

Figure 5.11 displays the Ag contents of gold samples collected from Seymour Creek. Gold from the Bow Camp and mid Seymour Creek samples are similar, both displaying a dominant low-Ag population with a minor high-Ag sub-population. Gold from upper Seymour Creek contains a higher median Ag value (17.2% Ag) than other samples within the drainage (13.6 - 15.2% Ag; Table 5.4). The Ag content of gold from Guder Creek corresponds with the dominant low-Ag signature observed in gold from the mid Seymour Creek sample (Fig. 5.12).

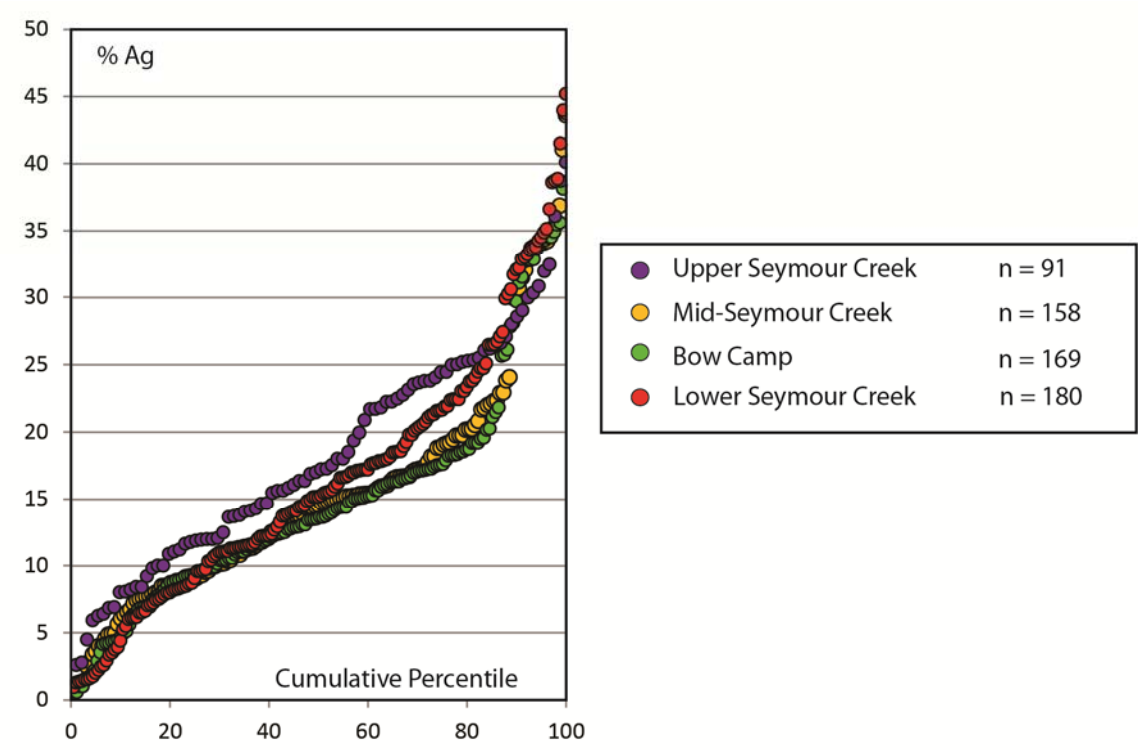


Figure 5. 11: Ag contents of the Seymour Creek placer gold samples.

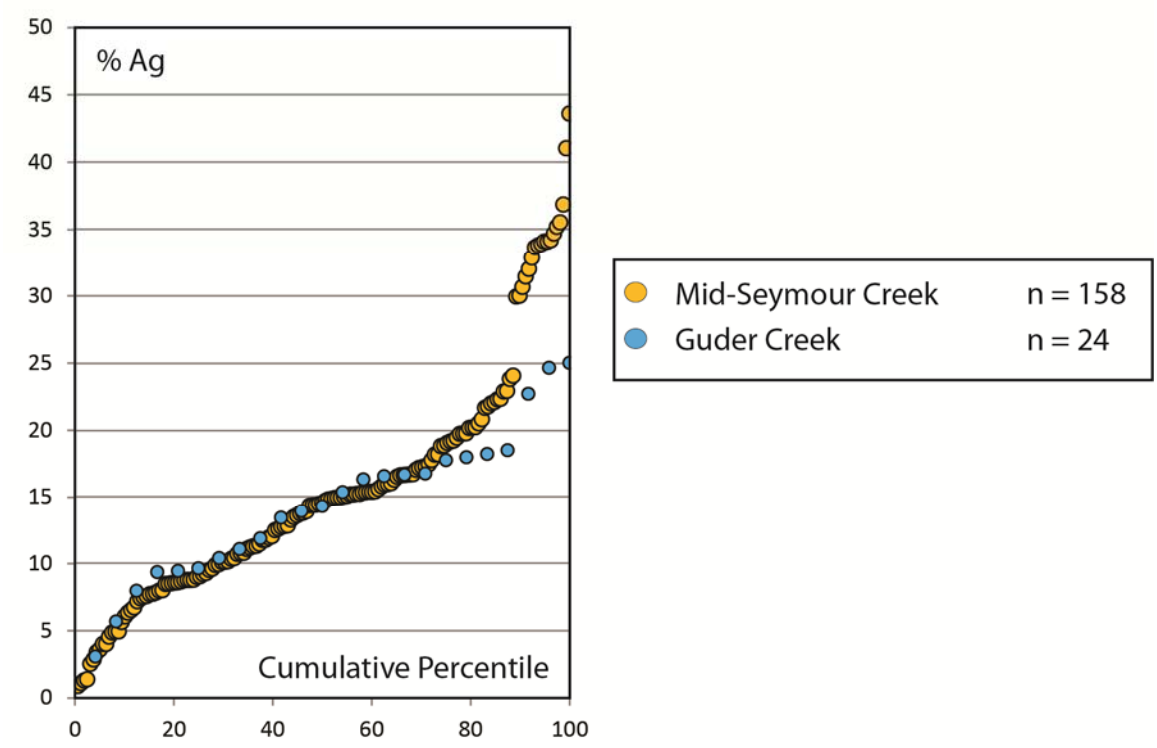


Figure 5. 12: Comparison of Ag contents of placer gold from the mid Seymour Creek and Guder Creek localities.

Minor Cu concentrations in gold alloy were detected within placer gold grains in all samples (detection limit - 0.05% Cu); however, an influx of gold grains containing Cu and Hg concentrations above detection occurs in the vicinity of the Bow Camp and mid Seymour Creek samples (Table 5.4; Fig. 5.10).

Inclusion Assemblage

Pyrite is present in the inclusion assemblage of all placer gold samples from Seymour Creek (Table 5.4). Upper Seymour Creek gold contains pyrite, arsenopyrite and galena inclusions. The Bow Camp and mid Seymour Creek samples contain bismuth-bearing inclusions, sphalerite and a Cu-Sb-S phase. In the lower Seymour Creek sample, inclusions are less abundant (possibly as a function of transport distance; Loen, 1993) and the assemblage comprises pyrite and minor galena.

Table 5. 1: Microchemical signature of gold samples from the Seymour Creek drainage.

Locality	N (number of grains)	Median Ag (%)	Cu bearing (%)[1]	Hg bearing (%)[2]	Inclusion Assemblage
Upper Seymour Creek	91	17.2	6.6	nil	galena, pyrite, arsenopyrite
Mid-Seymour Creek	158	14.6	9.5	2.5	pyrite, galena, chalcopyrite, calcite, arsenopyrite, tetrahedrite
Bow Camp	169	13.6	13.6	3.5	pyrite, galena, Cu-Sb-S, Bi-Te, Bi-Fe-O, sphalerite, arsenopyrite, calcite
Guder Creek	24	14.8	8.3	nil	galena, pyrite
Lower Seymour Creek	180	15.2	13.9	2.7	pyrite, galena, calcite

[1] Cu bearing refers to the percentage of grains that contain Cu above the detection limit of 0.05%.
[2] Hg bearing refers to the percentage of grains that contain Hg above the detection limit of 0.2%

Morphological Data

Both qualitative and quantitative morphological analysis of placer gold has been conducted in the Seymour Creek drainage. A sample collected in 2010 from the mid Seymour Creek locality (Fig. 5.10) was categorized in terms of extremes of morphology (according to the methodology employed by Chapman and Mortensen (2006)) and was later resampled and analyzed in a quantitative manner as part of this study. 'Rough' and 'flakey' grains corresponded to the proximal (<50m transport) and distal categories (>300m) of Townley et al. (2003). The intermediate category relates to grains which do not exhibit these extremes of morphology. Table 5.5 provides the microchemical signatures of these samples.

Table 5. 2: Shape categories and inclusions present (subjective method).

Category	N (number of grains)	Median Ag (%)	Cu bearing (%)[1]	Hg bearing (%)[2]	Inclusions Assemblage
Rough	36	18.2	11.1	2.7	Bi-CO_3 (outer)[3], arsenopyrite, (Fe, Ca, Mg, Mn) CO_3, galena, pyrite, sphalerite
Intermediate	145	13.6	13.7	0.7	$CuFeS_2$, pyrite, galena, arsenopyrite, Fe-Cu-S, Bi-CO_3, Fe-Co-As-S, Bi-S
Flake	19	12.8	26.3	nil	Cu-Sb-S, arsenopyrite, galena, molybdenite

[1] Cu bearing refers to the percentage of grains that contain Cu above the detection limit of 0.05%.
[2] Hg bearing refers to the percentage of grains that contain Hg above the detection limit of 0.2%
[3] Most inclusions revealed in cross section are present within the gold grain core. In some cases, inclusions are present on the outside of grains

Galena and arsenopyrite inclusions are present in all three populations. Whereas pyrite is abundant in both the 'rough' and 'intermediate' categories, it is absent from the 'flakey' category (Table 5.5). Bismuth carbonate (Bi-CO_3; a decomposition product of primary Bi minerals) was observed on the surface one of the 'rough' grains.

HSF-%Au Data

Figure 5.13a-e is a series of HSF-%Au plots for the Seymour Creek gold samples. Median HSF values for gold samples along Seymour Creek (Fig. 5.13a-e) are 0.94, 0.89, 0.91, 0.96 and 0.89, respectively. Gold grains from samples upper Seymour and Guder creeks display more spherical grain shapes (0.94 and 0.96, respectively), which likely suggests short transport distance from the bedrock gold source. Figures 5.13b and Figure 5.13c display the same distribution of HSF and Ag values and identify a high- and low-Ag population (also identified in Fig. 5.11), the low-Ag signature being the larger contributor to the placer inventory.

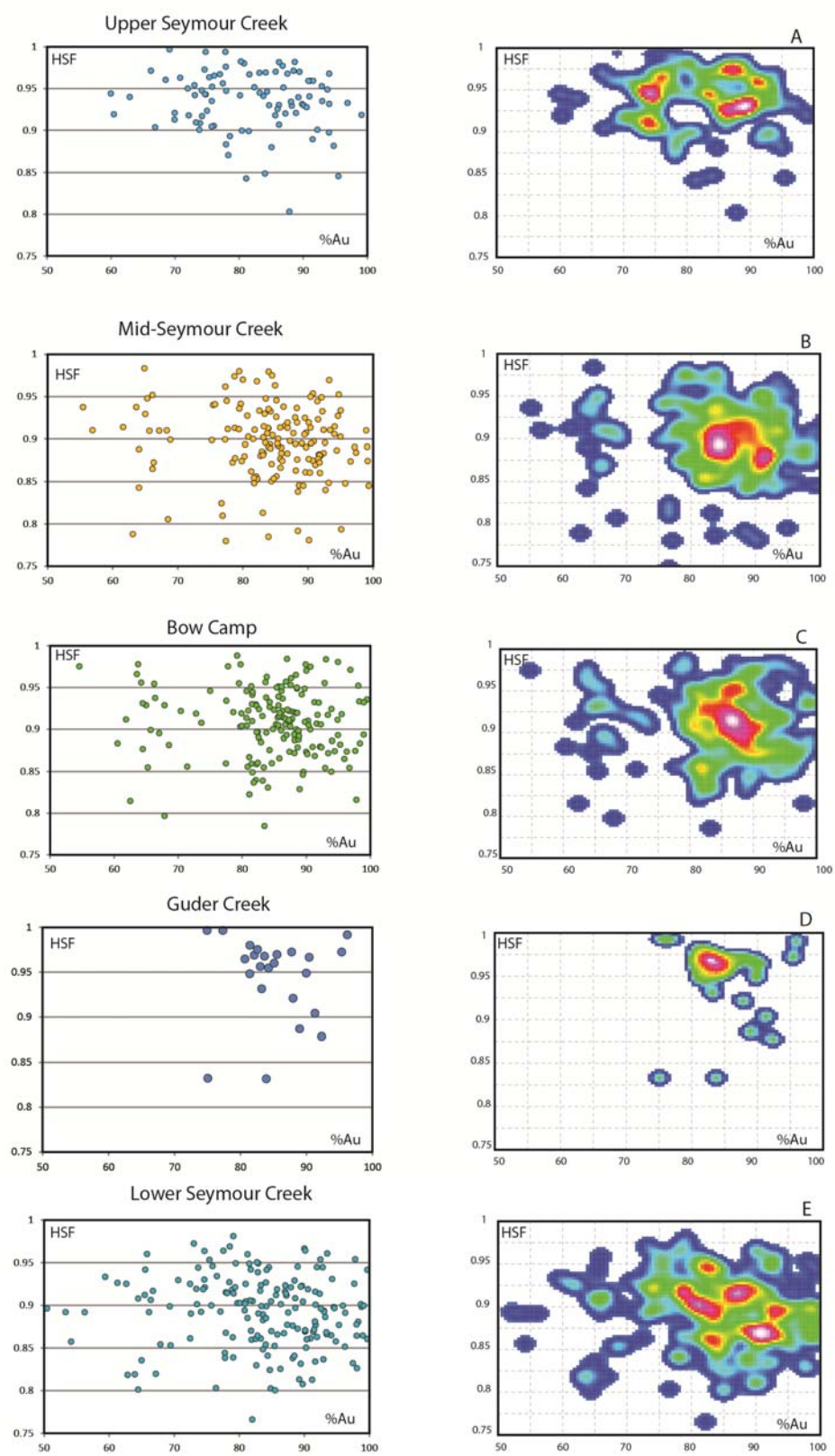


Figure 5. 13: HSF-%Au plots for Seymour Creek placer gold localities.

Distance-To-Source Calculations

Distance-to-source calculations generated for the mid Seymour Creek and Bow Camp localities display clustering (spatially overlapping distance-to-source calculations derived from independent sample locations) of solutions surrounding the Caribou Creek and Bath occurrence (within ±1 S.D. error; Fig. 5.14). Distance-to-source calculations for the Guder Creek sample suggest that gold is not being sourced from the headwaters of the creek near the Guder occurrence, but rather is being liberated from somewhere in the middle segment of Guder Creek.

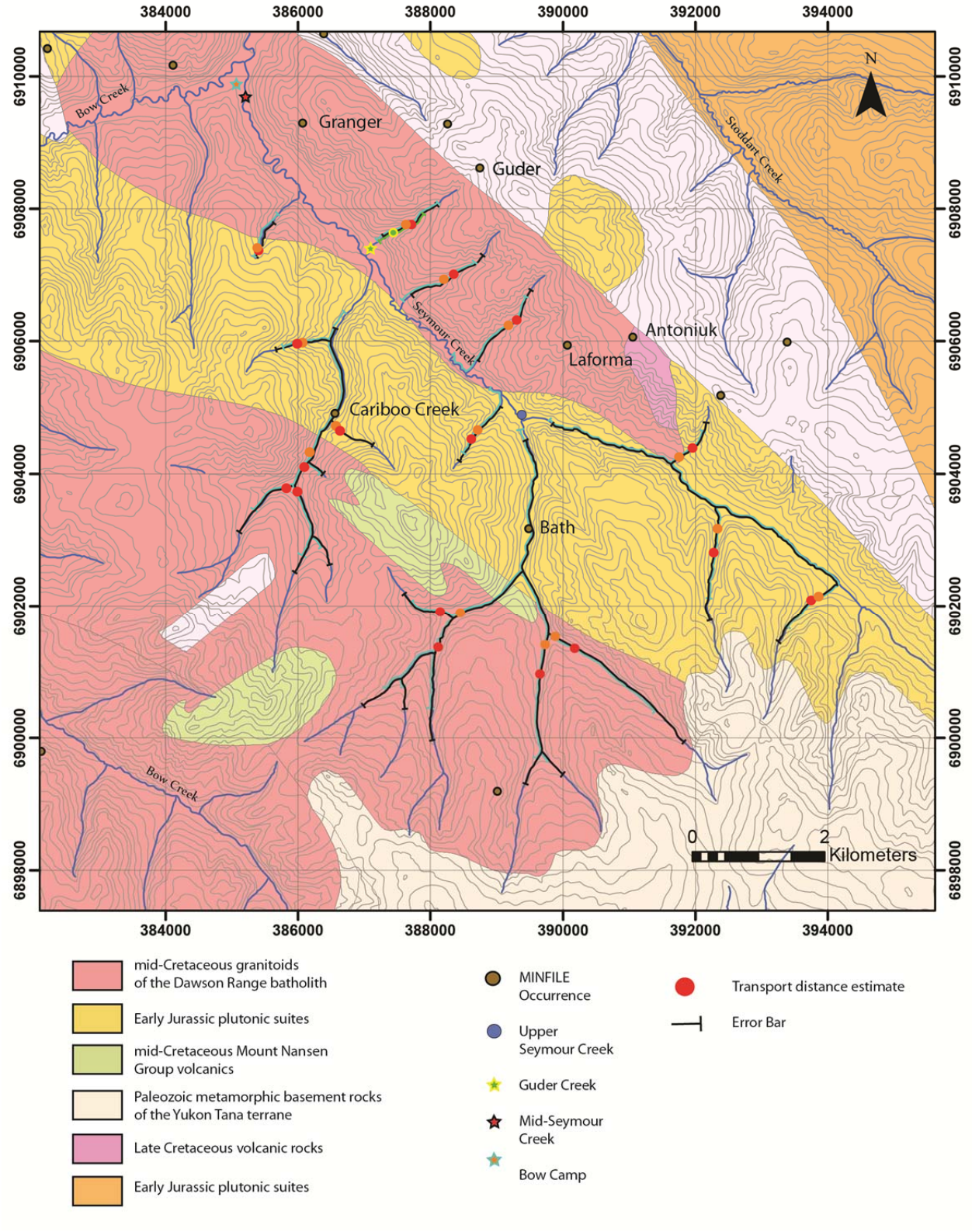


Figure 5. 14: Distance-to-source calculations for the Seymour Creek placer gold samples. Projection: NAD 83 UTM zone 8N.

5.3.3 Discussion

Epithermal gold-quartz veins together with vein-breccias, polymetallic veins, Au-skarns and porphyry-style mineralization, all occur in the Seymour Creek drainage and have the potential to contribute gold particles to the placer inventory. In addition to this variety of *in situ* mineralization, microchemical signatures of populations of placer gold grains may be influenced by compositional zonation of the mineralization, as reported at Laforma (McInnes et al., 1990). Despite this complexity, placer gold studies can identify specific gold signatures that are dominant in the placer gold inventory. These gold signatures reflect the mineral associations present within the corresponding bedrock gold sources, and may aid in the prioritization of exploration targets during future exploration efforts within the Seymour Creek drainage.

The series of HSF-%Au plots for Seymour Creek (Fig. 5.13) suggest an influx of gold with a low-Ag signature between the upper Seymour Creek and the mid-Seymour Creek localities (Fig. 5.10; Fig. 5.13a-c). These data show that the low-Ag signature becomes the major component of gold within the placer inventory at the mid-Seymour Creek locality (Fig. 5.13b and Fig. 5.13c). Additional evidence for the influx of gold is provided by the presence of Bi minerals as inclusions and the presence of a higher proportion of Cu and Hg bearing grains (Table 5.4). Consideration of the mineral occurrences within the drainage has been undertaken in order to infer the potential bedrock source(s) of this signature.

Distance-to-source calculations have been used in an attempt to identify the locations of placer gold influx within the Seymour Creek drainage. Clustering of solutions is observed surrounding the Caribou Creek and Bath occurrences (within ±1 S.D. error; Fig. 5.14), but do not cluster in the vicinity of the Laforma deposit (a previous gold producer; McInnes et al., 1990). However, the minor tributaries that directly drain the deposit are not present on the 1:50,000 stream shapefile (Fig. 5.10), and therefore were not evaluated by the 'Goldtracker' program (see Chapter 7.1).

Qualitative morphological studies of gold from mid-Seymour Creek identified Bi-bearing mineral inclusions within the "rough" and "intermediate" shape categories, which is consistent with a maximum transport distance of 300m according to the transport distance categories

(<50m, 50-300m and >300m) of Townley et al. (2003). Figure 5.10 shows that the position of the Granger occurrence is compatible with this transport distance.

The inclusion assemblage of the upper Seymour Creek sample comprises galena, pyrite and arsenopyrite (Table 5.4), which largely correspond to the mineral associations identified in mineralized veins at the Laforma deposit (arsenopyrite-pyrite-tourmaline-gold-galena-sphalerite-chalcopyrite-tennantite-barite; McInnes et al., 1990). The Ag content of the upper Seymour Creek sample displays a wider range of Ag content (0.9 - 43.6% Ag) to those analyzed in polished thin section (<5% Ag; McInnes et al., 1990). However, McInnes et al. (1990) observed gold as 8-15 µm inclusions within arsenoyrite; therefore, variance in Ag content may be due to comparing gold analyses from samples of different particle size.

The Guder Creek placer sample was collected in the valley below the Guder occurrence (Fig. 5.10). The Ag content of this sample is very similar to the low-Ag gold which enters the Seymour Creek drainage above the mid-Seymour sampling location (Fig. 5.12); as discussed above. Although the sample populations was relatively small, only pyrite and galena inclusions were observed (Table 5.4), and therefore the Guder occurrence may not be the source of the Au with a Bi association.

The Caribou Creek prospect is characterized as a Au-quartz vein occurrence containing coarse free gold in quartz veins, and quartz-flooded breccia similar to the breccias reported at the Laforma deposit (McInnes et al., 1990). Information on this occurrence is limited; however, based on the comparison with the Laforma deposit, it is unlikely that this occurrence is the source of the Bi-bearing gold signature.

The Granger occurrence is a Cu-Mo-Au porphyry and is located a few hundred meters upstream of the Bow Camp and mid-Seymour Creek sample localities (Fig. 5.10). Gold occurs with minor chalcopyrite, pyrite and a trace of molybdenite in a steeply dipping, northwest-trending shear zone (8 m wide) and in a narrow northwest-trending vein (2 m wide; Table 5.3). Although, Bi-minerals have not been identified at the Granger occurrence, the presence of Cu, Mo and Au mineralization is consistent with other gold systems (Nucleus and Revenue deposits) that contain Bi-bearing minerals. Therefore, the Granger occurrence is a potential source of this gold

signature. Also, this hypothesis is consistent with the inferred transport distance as gained through qualitative assessment of gold particle shape.

The Stoddart prospect (Fig. 5.10) is located to the northeast of the Granger occurrence and is characterized by disseminated chalcopyrite ± molybdenite ± scheelite mineralization and as sheeted to stockwork quartz-molybdenite-chalcopyrite-scheelite ± pyrite veins (Allan et al., 2012b). Similarly to the Granger occurrence, the Stoddart prospect exhibits Au-Mo-Cu-W mineral association similar to that at the Nucleus and Revenue deposits to the west. The Stoddart prospect is of a similar (but slightly younger - ~77 Ma) age to that of the Nucleus and Revenue deposits (Allan et al., 2012b). Furthermore, a Titan-24 (IP) survey, which included the Stoddart prospect area, revealed a chargeability anomaly over the Stoddart prospect similar to that observed over the Nucleus and Revenue deposits to the west (Fig. 5.4). The location of the Stoddart prospect (as determined by the location of the MINFILE occurrence) does not directly drain into the Seymour Creek drainage in the vicinity of the identified gold influx (Fig. 5.10). However, the extent of the IP anomaly and the mineralogical similarities with the Nucleus and Revenue deposit suggest that the extent of the Stoddart prospect is larger than indicated, hence, it is possible that mineralization derived from the Stoddart prospect may extend into the Seymour Creek drainage in the vicinity of this gold influx.

5.3.4 Conclusion

The Seymour Creek catchment contains a number of *in situ* gold-bearing lode deposits and occurrences, which have the potential to contribute gold to the placer inventory. However, placer gold studies have identified an influx of gold between the upper Seymour Creek and mid-Seymour Creek localities, which represents a major component of gold within the placer inventory (Fig. 5.13b and Fig. 5.13c). This signature exhibits a low-Ag, Cu and Hg-rich gold alloy and an inclusion assemblage comprising pyrite, galena, Bi-Te, Bi-Fe-O, chalcopyrite, arsenopyrite and tetrahedrite. This Bi-bearing gold signature is similar to that observed surrounding the Nucleus and Revenue Au-Cu porphyry deposit to the west, suggesting the presence of undiscovered and/or underdeveloped Au-Cu porphyry mineralization in the Seymour Creek drainage.

Whilst the source of the placer gold in upper Seymour Creek remains unclear, both compositional and morphological considerations suggest contributions from the Granger and Stoddart occurrences. The presence of Bi inclusion species suggests a source of similar mineralogy to the Revenue and Nucleus deposits, in addition to, a similar chargeability anomaly further supports the presence of such mineralization.

6 Variations In Microchemical Gold Signatures In The Yukon-Tanana Terrane

6.1 Introduction

Although the western Yukon hosts several lode gold deposits it is better known for the presence of several 'world class' placer gold deposits. Previous studies of the placer-lode gold relationship have focused on the Klondike District (Chapman et al., 2010a,b) and the Indian River drainage (Chapman et al., 2011). However, other studies of placer gold throughout the Yukon have been ongoing and the present study is part of this overarching program whose ultimate aim is to inform metallogenic studies and future exploration efforts.

This chapter presents new data from three additional study areas in the White Gold and Sixtymile districts (Fig. 1.1). Data from placer and lode gold studies in the White Gold deposit area are presented, in addition to placer gold studies from the Thistle Creek and Sixtymile River areas.

6.2 White Gold Property

6.2.1 Introduction

The White Gold deposit area (Kinross Gold Corp.) is located in west-central Yukon, near the confluence of the White and Yukon River, 90 km south of Dawson City (Fig. 6.1). The property comprises a number of mineralized zones, including the Golden Saddle (~1.3 Moz gold) deposit, and the Ryan Vein and McKinnon prospects.

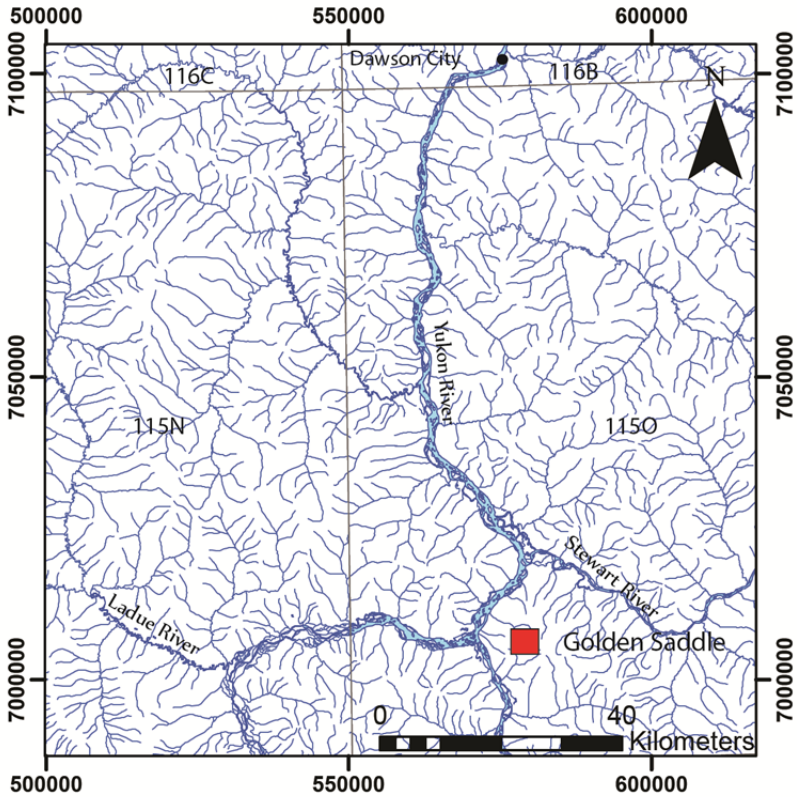


Figure 6. 1: Location of the Golden Saddle gold deposit. Projection: NAD83 UTM zone 7N.

The area is underlain by middle to late Paleozoic, amphibolite grade metamorphic rocks of the Yukon-Tanana terrane (Gordey and Ryan, 2005). A variety of post-metamorphic igneous rocks of Late Permian to Early Tertiary have been emplaced into the metamorphic assemblage (Gordey and Ryan, 2005). However, these intrusive rocks are not known to be associated with any significant hydrothermal alteration or mineralization in the immediate vicinity of the Golden Saddle deposit (Bailey, 2013).

Gold mineralization at the Golden Saddle deposit is hosted in a series of sub-parallel, northeast-trending and northwest-dipping faults that cut an east-dipping, thrust-bound package of Late Permian feldspar augen orthogneiss (Fig. 6.2). Bailey (2013) interpreted these mineralized faults to be secondary structures relating to a major east trending, sinistrally transpressive fault system that passes a few hundred meters south of the deposit (Fig. 6.2). Mineralized zones within the deposit contain various breccia, vein, shear, and stylolitic features (Bailey, 2013). Furthermore, brittle-ductile kinks folds and axial-planar veins at Golden Saddle are similar in style to those regionally (e.g., veins of the Frenzy prospect in the Henderson Creek area and

mineralized quartz veins in the Klondike), and indicate that the same deformation event (D_4 event of MacKenzie and Craw, 2010) applies regionally and plays an important role in controlling gold mineralization.

Mineralization at Golden Saddle is associated with intense quartz-carbonate-illite alteration, and gold occurs as inclusions within disseminated pyrite grains, and as free grains along pyrite fractures (see Chapter 6.2.2; Bailey, 2013). Gold is paragenetically related to galena, chalcopyrite, molybdenite, silver-tellurides (Ag-Te), bismuthinite, and barite (Bailey, 2013). $^{187}Re/^{187}Os$ analysis of molybdenite that is paragenetically related to gold at Golden Saddle and surrounding nearby prospects yielded mineralization ages in the range 163 – 155 Ma, which is broadly contemporaneous with gold mineralization in the Mitchell-Sheba vein system in the Klondike District (Mortensen, unpublished data).

Although the Golden Saddle deposit does not lie within the catchment of any placer gold-producing streams, several additional zones of anomalous soil geochemistry on the White Gold property were interpreted by Bailey (2013) to correspond to mineralization controlled by unmapped faults or fracture systems similar in structural style to Golden Saddle. Many such anomalies fall within the catchments of placer producing streams (e.g., Thistle and Frisco creeks; Fig. 6.2), warranting an investigation of the placer gold signatures present.

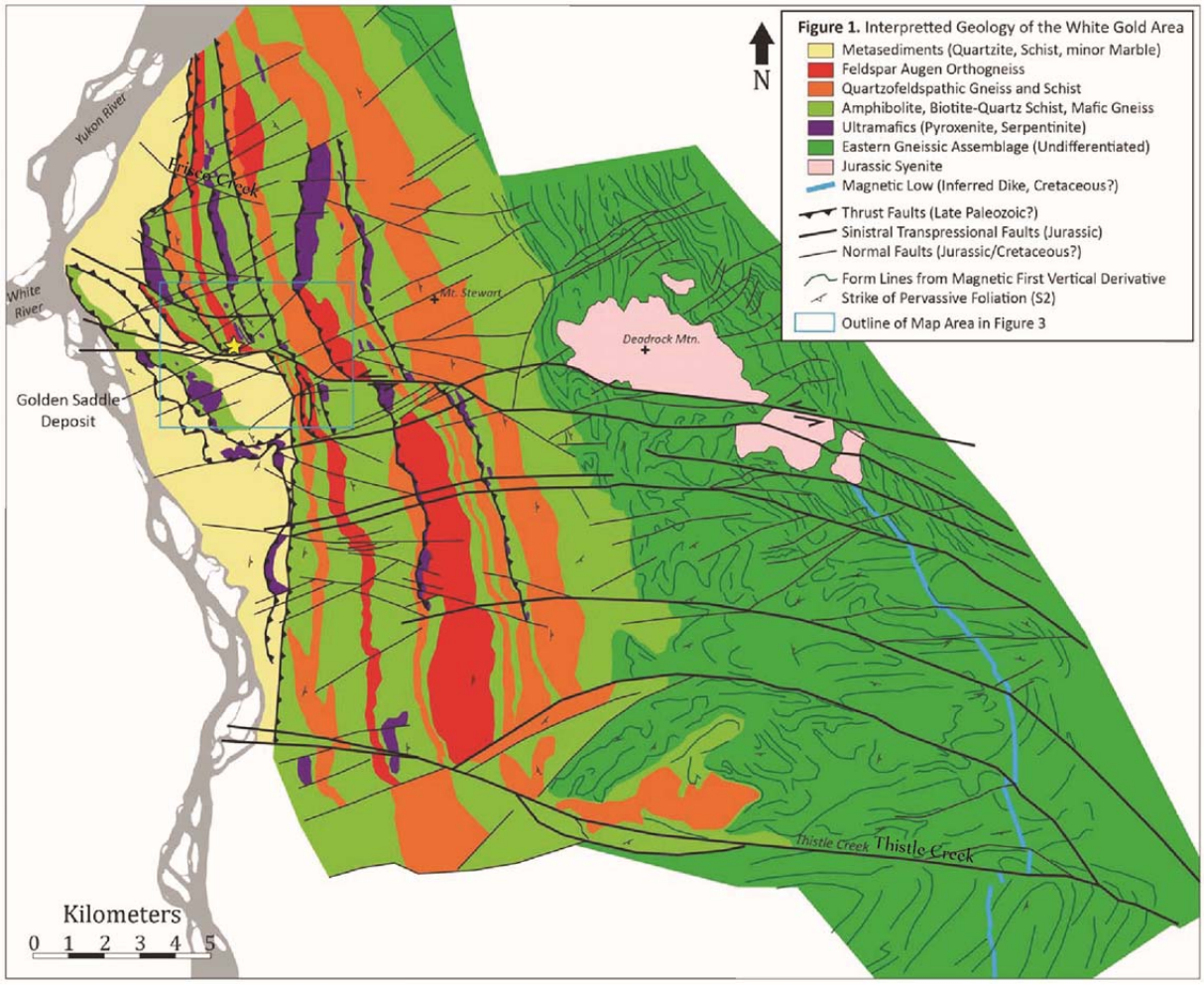


Figure 6. 2: Geology of the Golden Saddle deposit area (Bailey, 2013).

Gold-bearing lode samples used in this study were obtained from Mr. Jodie Gibson of Underworld Resources (2009) and/or collected on the property by Prof. Jim Mortensen. The sample suite consists of drill core samples (taken from different depths), in addition to surface samples of gold-bearing veins. Gold grains were separated from surface samples (Golden Saddle surface sample, Ryan Vein and McKinnon Vein) by crushing and subsequent gravity separation using a Wilfley table. The gold grains were subsequently analyzed by Dr. Rob Chapman who proposed the interpretation presented here.

6.2.2 Lode Samples

Golden Saddle - Core Samples

Several gold particles were observed in polished thin sections, and these occur in two forms: type 1) as blebs within pyrite grains (Fig. 6.3a); and type 2) infilling fractures within pyrite (Fig. 6.3b). Bailey (2013) concluded that type 2 gold is paragenetically later than type 1 gold.

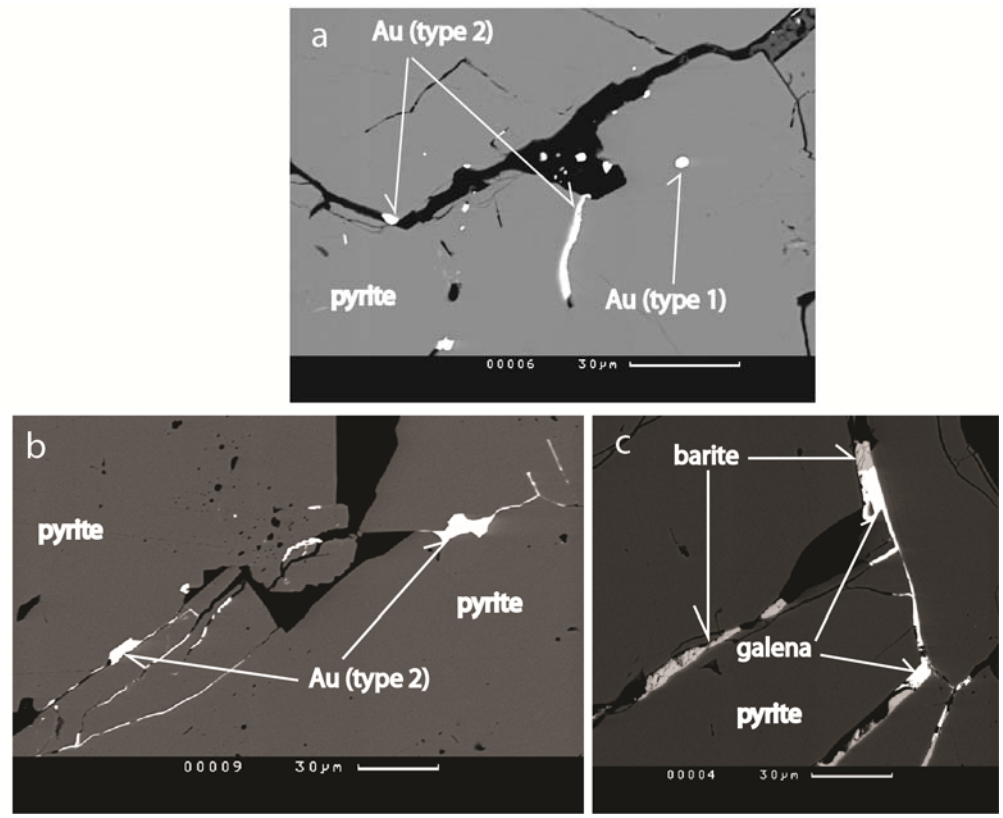


Figure 6. 3: (a) Au contained within pyrite from the Golden Saddle deposit. (b) Au infilling fractures in pyrite from the Golden Saddle deposit (type 2 gold). (c) Examples of minerals associated with type 2 gold (BSE images; Bailey, 2013).

Type 1 gold exhibits less Ag and Hg in gold alloy (median of 13.9% Ag; 3 Hg bearing grains (0.21-0.53% Hg)) compared to type 2 gold (median of 16.4% Ag; 15 Hg bearing grains (0.28-0.51% Hg; and Figures 6.4 and 6.5). Neither gold type contained Cu above the detection limit. Type 1 gold is present as inclusions within pyrite, and gold is the only mineral present (type 1 gold; Bailey, 2013; Fig. 6.3a). Type 2 gold is associated with barite, galena, hessite, Ag telluride, chalcopyrite, bornite and Cu sulphosalts, which are present either as free grains or filling fractures in pyrite (Fig. 6.3b,c).

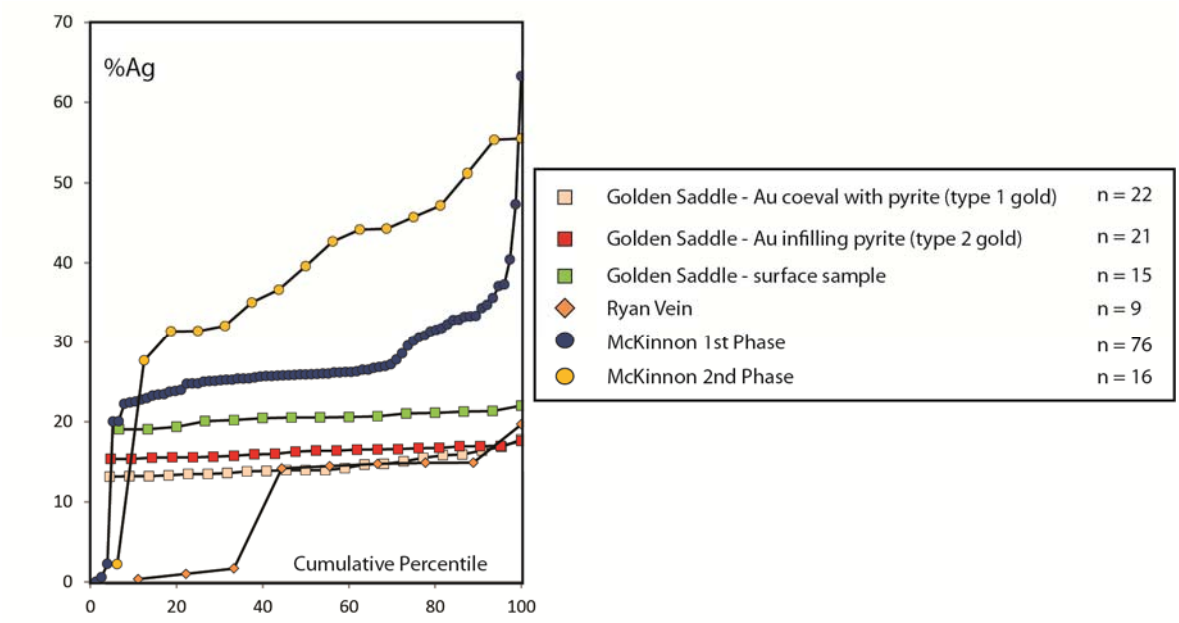


Figure 6. 4: Ag contents of lode gold samples from the White Gold property.

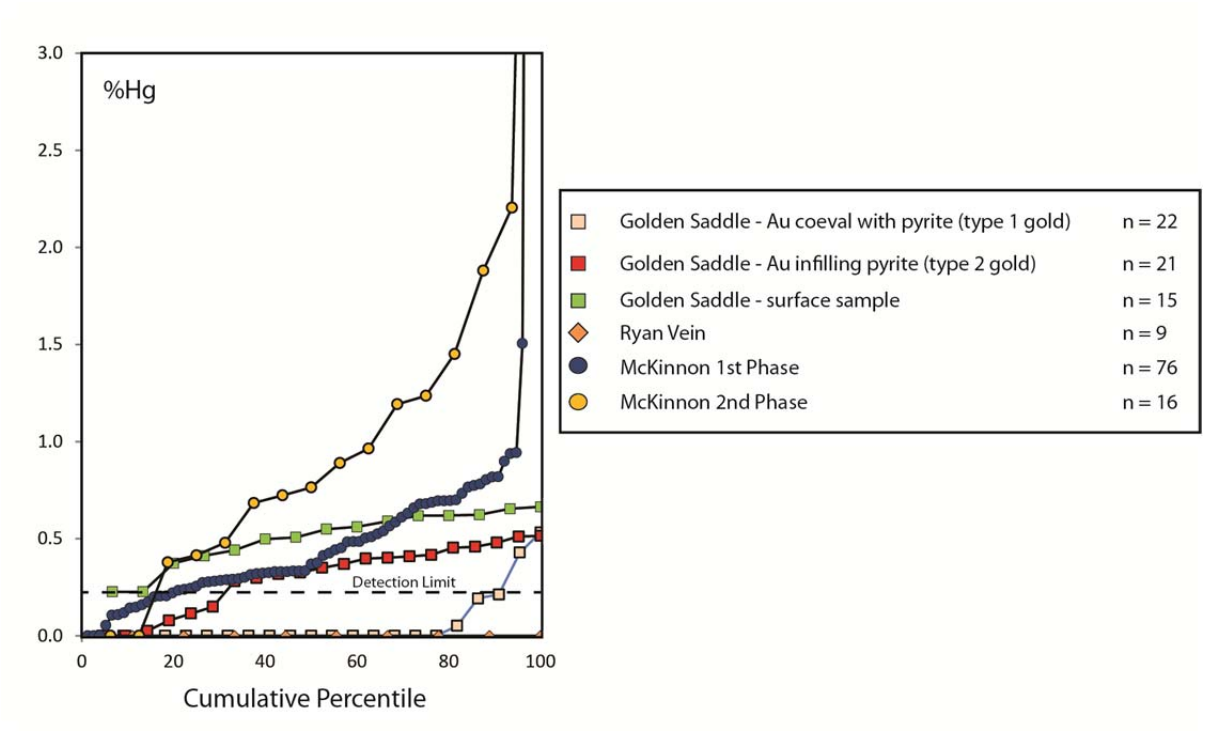


Figure 6. 5: Hg contents of lode gold samples from the White Gold property.

Golden Saddle - Surface Vein Samples

The Golden Saddle surface sample contained a small number of gold grains, which are similar in composition to 'type 2' gold described above. In contrast, this sample contains slightly higher concentrations of Ag and Hg (median of 20.5% Ag, all Hg bearing grains (0.23-0.66% Hg); Fig. 6.6). Only a small number of inclusions were recorded as a consequence of the small sample population size.

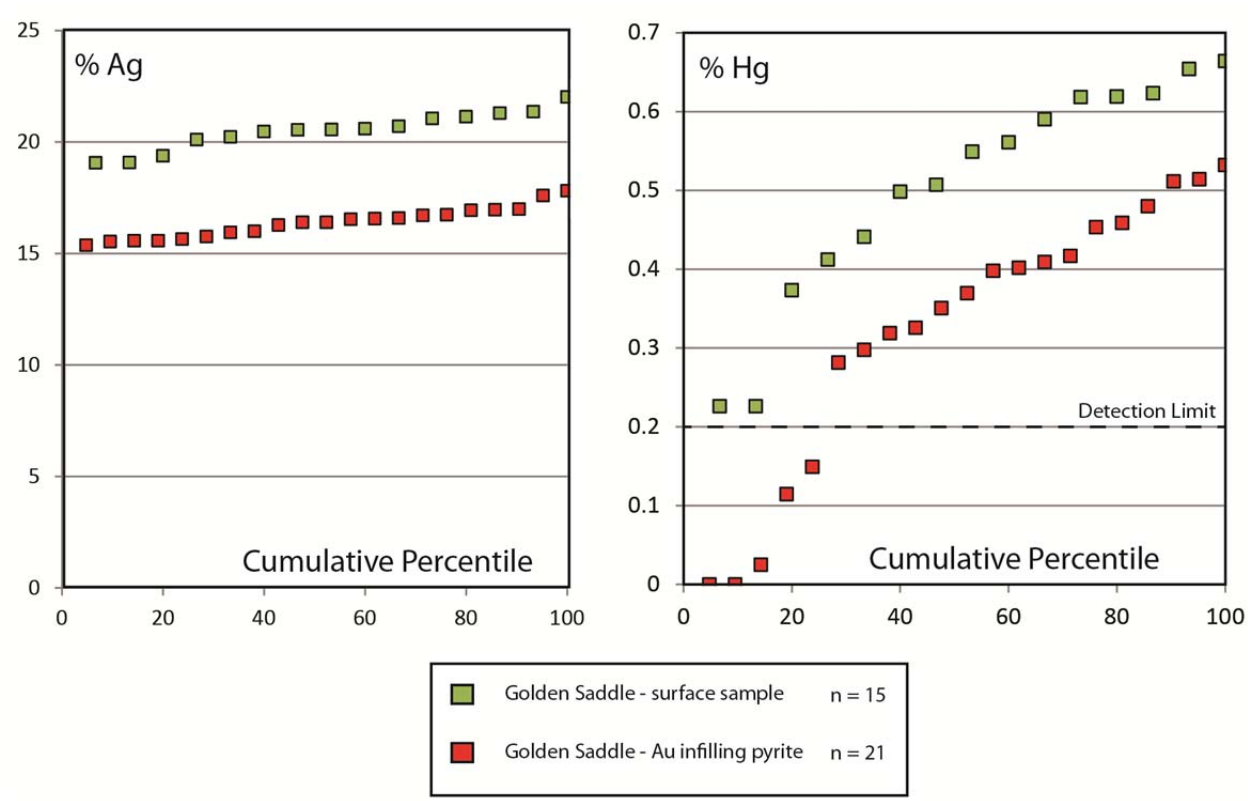


Figure 6. 6: Ag and Hg contents of lode gold samples from the Golden Saddle deposit.

Ryan Vein prospect

Only nine gold grains were recovered from the Ryan Vein sample. Three grains had low Ag concentrations (which corresponds to neither type 1 or 2 gold), whereas the alloy composition of the remaining six grains corresponded closely to type 1 gold at Golden Saddle (Fig. 6.4). A presumably secondary Pb-Fe-Te oxide mineral was also observed partially rimming two gold grains.

McKinnon prospect

The majority of gold grains from the McKinnon prospect are compositionally heterogeneous, and diffuse boundaries were observed between different gold phases viewed in BSE mode. Each of the alloy compositions were analyzed by EMP. In all cases, the high-Ag alloy mantles and partially replaces the low-Ag alloy.

The inclusion mineralogy of gold from the McKinnon prospect includes hessite, pyrite and galena as inclusions within the early gold phase (median of 25.9% Ag). A later gold phase (median of 41.1% Ag) contains inclusions of acanthite (Ag_2S). In addition, a variety of secondary minerals were observed, most of which were a Pb-Fe-Te-O phase, which may be eztlite ($Pb_2Fe_6^{3+}$ $[Te^{4+}0_3]_3[Te^{6+}O_6]$ $[OH]_{10}.8H_2O$). In two cases, pure gold grains ~1 micron in size were observed within a Pb-Fe tellurite (TeO_3^{2-}) or tellurate (TeO_4^{2-} or TeO_6^{6-}).

6.2.2.2 Discussion

The lode gold samples from the Golden Saddle deposit and other localities in the White Gold property show a wide compositional range suggestive of multiple stages of parageneses. Two major signatures of gold are observed. Including an early phase of gold mineralization (type 1 gold) that yields a relatively simple signature (i.e., no Hg in the alloy, and a pyrite only inclusion assemblage). A second stage of mineralization in the Golden Saddle deposit (type 2 gold) yields a slightly more Ag- and Hg-rich gold alloy (Fig. 6.4 and Fig 6.5). The first phase of gold mineralization was associated with pyrite, whilst the second was closely linked with galena, barite, sulphosalts and hessite.

The difference between the alloy compositions of gold grains from the Golden Saddle core samples and those at surface suggest a spatial and/or temporal variation in mineralizing conditions. Ag and Hg contents in gold alloy between Golden Saddle core samples and the surface sample are observed to vary with depth, returning both higher Ag and Hg values for the surface sample (Fig. 6.6). Chapman et al. (2010a) discussed a similar relationship between Ag and Hg values for samples surrounding the Lone Star occurrence. These authors interpreted that higher Ag contents of alloys are indicative of precipitation during the later stages of mineralization when $Au/Ag_{(aq)}$ had fallen, based on the suggestion of Gammons and Williams-

Jones (1995) that $Au/Ag_{(aq)}$ falls as a consequence of the initial preferential precipitation of Au. Furthermore, Chapman et al. (2010a) suggested that the variation in Hg content of gold alloys from sites around Lone Star may be a consequence of the regional P-T variation suggested by Rushton et al. (1993). These similarities in the behaviour of Ag and Hg in gold alloy between the Lone Star and Golden Saddle deposits suggest that these features are likely generic to orogenic gold systems.

An increase in Ag and Hg content of gold between Golden Saddle and the McKinnon prospect is also recorded. Although the early phase of gold in the McKinnon sample is a relatively Ag-rich alloy compared to type 2 gold (Fig. 6.4), the inclusion assemblage is identical to the mineralogy associated with type 2 gold which suggests a relationship. Figure 6.7 shows the covariance of Ag and Hg contents of the alloy from various sample localities. In most cases the Hg values are independent of the Ag content. However, the later phase of gold mineralization at McKinnon prospect shows a positive correlation between Hg and Ag. This suggests that the hydrothermal regime at McKinnon is fundamentally different from other mineralizing phases. Gold from the later phase at McKinnon is commonly partially replaced by acanthite (R. Chapman pers. comm.). The Ag-rich gold itself may be a consequence of re-equilibration with a fluid which contains either only Ag or exhibits a very low $Au/Ag_{aq.}$ Absence or scarcity of Au in the fluid may account for the different behaviour of Ag and Hg.

Bailey (2013) identified brittle-ductile kinks folds and axial-planar veins at Golden Saddle. Allan et al. (in review) suggested that these structures are similar in style to those regionally (e.g., veins of the Frenzy prospect in the Henderson Creek area and mineralized quartz veins in the Klondike). These structures formed during the D_4 deformation event (MacKenzie and Craw, 2010), which are observed regionally and are interpreted to play an important role in controlling gold mineralization (Bailey, 2013; Allan et al., in review). Allan et al. (in review) observed the superimposition of epizonal (purely brittle) on mesozonal (brittle-ductile) features within individual structures and interpreted that significant crustal exhumation occurred during the time of mineralization. Exhumation during the time of mineralization likely imposed an influence on the microchemical signature of gold at Golden Saddle, hence, the paragenetically

later type 2 gold is interpreted to have formed at shallower crustal levels, in the brittle environment, resulting in a more variable microchemical signature compared to type 1 gold.

Furthermore, there is evidence of supergene alteration of primary mineralization. The Pb-Te-Fe oxide mineral observed at the McKinnon prospect is probably an alteration product of the primary hessite (Ag_2Te), pyrite (FeS_2) and galena (PbS) assemblage. The presence of pure gold particles within these secondary minerals is consistent with transport and deposition within an oxidizing chloride system (Chapman et al., 2009). Two inclusions of Pb-Fe tellurate were observed in gold from the Ryan Vein; the occurrence of this mineral from two different sampling sites is suggestive of a common weathering history.

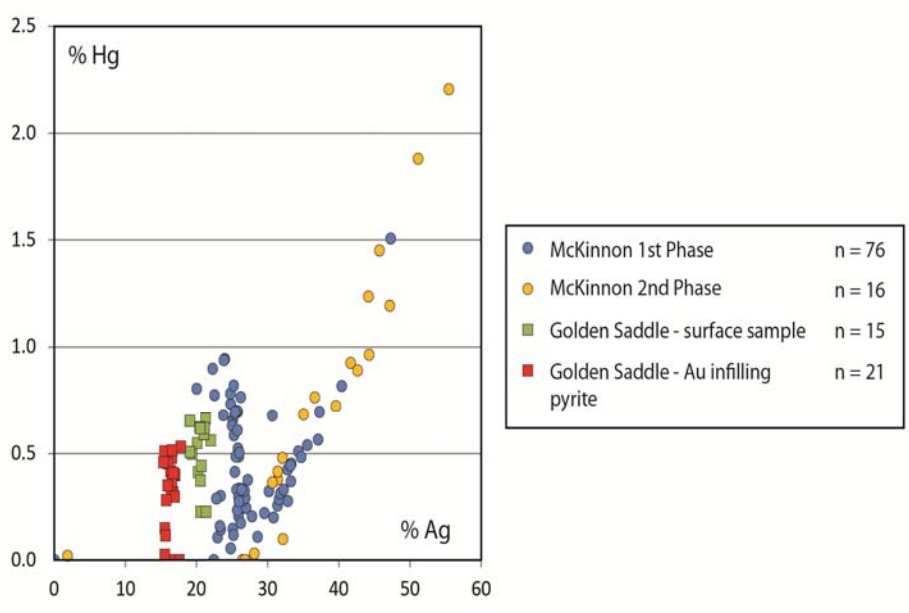


Figure 6. 7: Hg vs. Ag relations observed in lode gold samples from the White Gold property.

6.2.2.3 Conclusion

1) Subtle differences in Ag and Hg content of gold collected from different depths within the Golden Saddle deposit are interpreted to be a consequence of different $Au/Ag_{(aq)}$, and varying pressure and/or temperature, respectively.

2) Type 2 gold mineralization at the Golden Saddle deposit was associated with co-precipitation of hessite, galena, barite and minor sulphosalts. This gold type is interpreted to have been emplaced at shallower crustal levels during regional exhumation.

3) The first phase of Au-pyrite mineralization at the Golden Saddle deposit (type 1 gold) is similar to the signature of gold from the Ryan Vein and suggests that gold mineralization with the same signature is pervasive in the White Gold deposit area, indicating a larger hydrothermal system.

5) The later phase of Au mineralization at the McKinnon prospect is much richer in Ag than Au, and shows a positive correlation between Hg and Ag. This suggests that the hydrothermal regime of this gold phase at McKinnon is fundamentally different from other mineralizing phases in the White Gold deposit area.

6) The White Gold deposit area was subject to oxidative weathering in Tertiary time, which generated a suite of secondary minerals (Pb-Te-Fe-O signature), in addition to remobilizing minor amounts of gold.

6.2.3 Placer Gold Samples

The analytical results of placer gold samples collected near the White Gold property are summarized in Table 6.1. Cumulative percentile plots describing Ag and Hg contents are shown in Figures 6.8 and 6.9, respectively. The signatures of the placer gold samples are discussed in relation to the *in situ* lode gold samples.

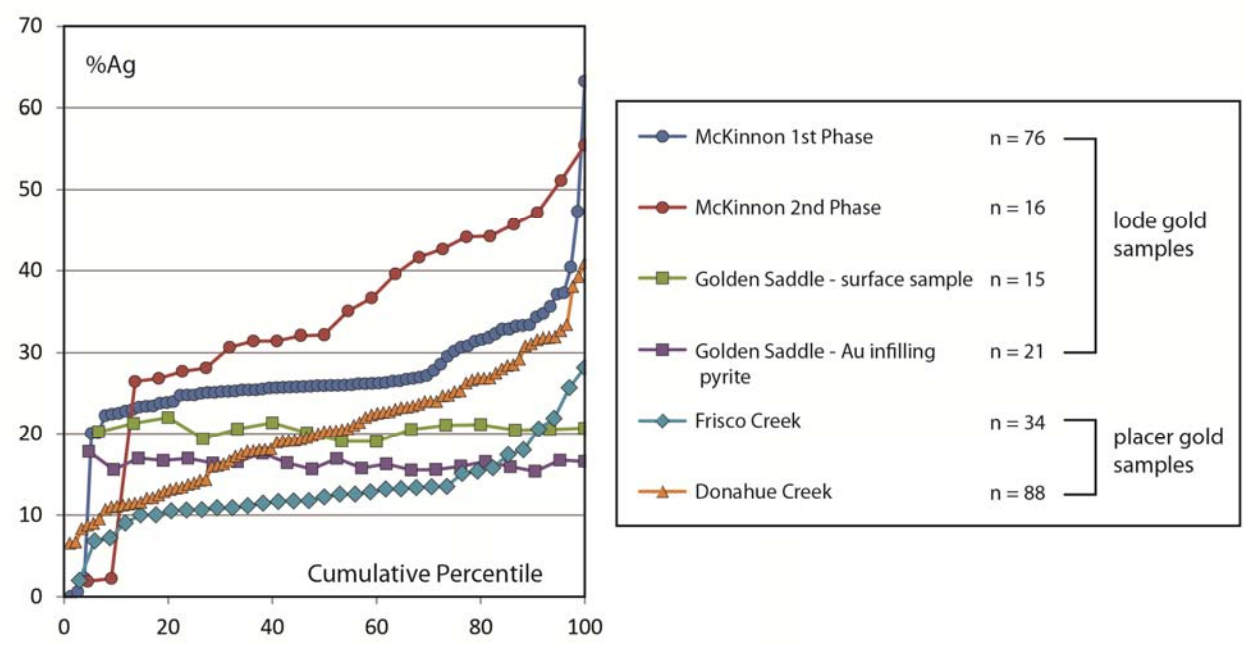


Figure 6. 8: Ag content of lode gold and placer gold samples surrounding the White Gold property.

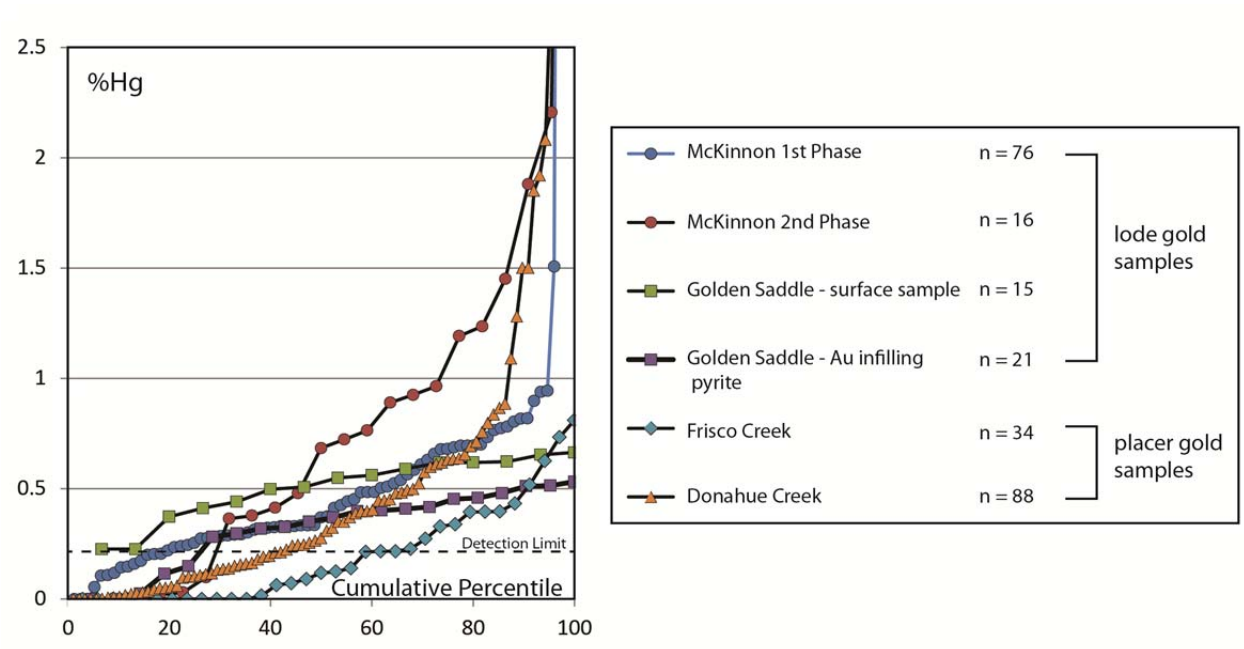


Figure 6. 9: Hg content of lode gold and placer gold samples surrounding the White Gold property.

Table 6. 1: Microchemical signature of placer gold surrounding the White Gold property.

Locality	n (number of grains)	Median Ag (%)	Cu bearing (%)[1]	Hg bearing (%)[2]	Inclusion Assemblage
Frisco Creek	34	12.4	5.9	44.1	50% of grains contain pyrite
Donahue Creek	88	20.3	15.9	60.2	pyrite inclusions common; chalcopyrite, galena and an undetermined Ni-Sb-S

[1] Cu bearing refers to the percentage of grains that contain Cu above the detection limit of 0.05%.
[2] Hg bearing refers to the percentage of grains that contain Hg above the detection limit of 0.2%

Frisco Creek

The Ag content of placer gold from Frisco Creek (median of 12.4% Ag) is similar, but not identical to the Ag content of type 1 and 2 gold from the Golden Saddle deposit (median of 13.9% Ag and 16.4% Ag, respectively; Fig. 6.8). Pyrite inclusions were the only mineral species observed in the placer gold from Frisco Creek. All grains exhibited morphological features characteristic of limited fluvial transport.

Donahue Creek

Placer gold from Donahue Creek exhibits a range in both Ag and Hg values (Figure 6.8 and 6.9). This sample likely contains members of both phase 1 and 2 gold signatures (median of 25.9% Ag and 41.1% Ag, respectively) observed at the McKinnon prospect (Fig. 6.2). Pyrite inclusions were the dominant inclusion specie, in addition to minor rutile, chalcopyrite, and galena.

6.2.4 Discussion

The lode and placer gold samples from the White Gold deposit exhibit compositional similarities. Placer gold from Frisco Creek (Fig. 6.8) is comparable to the signature of samples from the Golden Saddle deposit; furthermore, the pyrite dominant inclusion assemblage (Table 6.1) corresponds well with the Au-pyrite association observed in Golden Saddle core samples. The Frisco Creek drainage does not directly drain the Golden Saddle deposit; however, Bailey (2013) identified elongate zones of anomalous soil geochemistry that likely correspond to

unmapped gold-bearing structures, some of which are present in the Frisco Creek drainage (Fig. 6.2). This highlights the potential for undiscovered gold-bearing mineralization in the Frisco Creek drainage.

The Donahue Creek placer sample was taken close to the confluence with the Yukon River. The McKinnon prospect is a potential source to this placer deposit (Fig. 6.10). The range in alloy compositions present likely includes components of both the phase 1 and 2 gold signatures observed at the McKinnon Creek prospect.

6.2.5 Conclusion

Placer-lode relationships have been investigated in the drainages surrounding the White Gold property. The conclusions include:

1) The placer gold in Frisco Creek is similar in composition to that of the Golden Saddle core samples and may suggest the presence of undiscovered Au mineralization in the Frisco Creek drainage;
2) The two phases of gold deposition observed at the McKinnon Creek occurrence are represented within the Donahue Creek placer gold samples.

6.3 Thistle, Barker And Kirkman Creek Drainages

6.3.1 Introduction

The Thistle Creek drainage is located to the south of the White Gold deposit area (Fig. 6.10). Thistle Creek does not directly drain an area of known lode gold mineralization; however, it is one of the largest placer gold producing streams in the area, having produced 62,000 oz since 1949 (LeBarge, 2009).

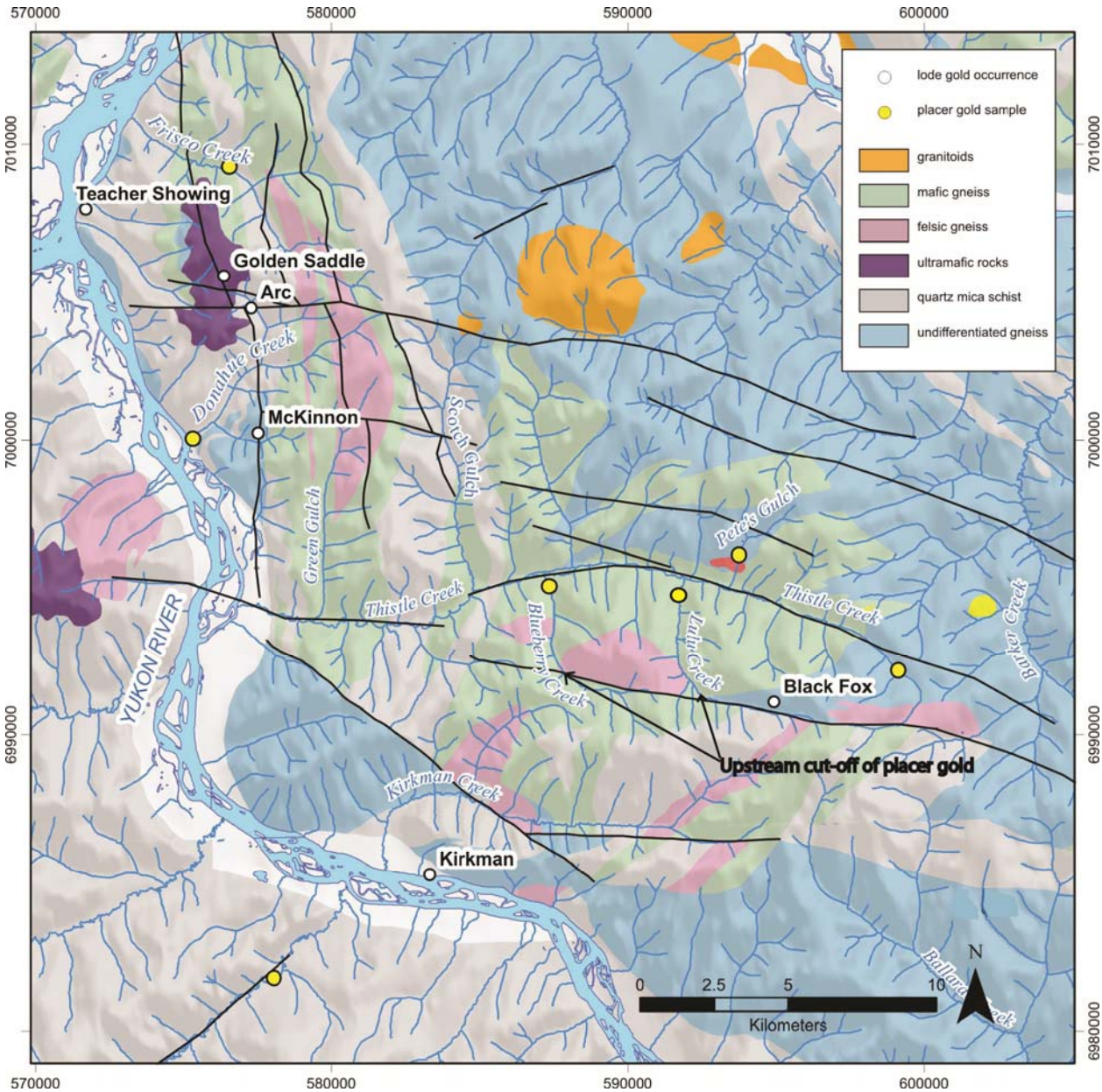


Figure 6. 10: Sample locations and geology of the Thistle Creek drainage (Allan et al., 2012a). Projection: NAD83 UTM zone 7N.

The Thistle, Barker and Kirkman creek drainages (Fig. 6.10) are underlain by a sequence of mafic and felsic gneiss packages which are cross-cut by west-northwest trending faults (Allan et al., 2012a). Blueberry and Lulu creeks have previously been mined (Table 6.2); however, both creeks display an abrupt upstream cessation in the abundance of placer gold in their headwaters (inferred by the absence of historic workings). This feature coincides with a deflection in the stream profile into an east-west orientation that is sub-parallel to the Thistle Creek drainage (Fig. 6.10). Faults generally correlate spatially with the location of the placer

producing streams (Thistle Creek, creek deflection in the headwaters of Blueberry and Lulu creeks and headwaters of Kirkman Creek) and exhibit the same east-west orientation of faults that are interpreted to control gold mineralization at the White Gold deposit area to the north (Fig. 6.10).

Thistle, Kirkman and Barker creeks have been mined extensively, whereas Blueberry and Lulu creeks have been mined to a lesser extent (Table. 6.2). Production records for Pete's Gulch (Fig. 6.10) are not available. Detailed descriptions of placer gold within these drainages are limited; however, coarse gold was reported along the whole length of Thistle Creek (S. Schmidt, pers. comm.). Mining operations are active on Pete`s Gulch, upper Barker Creek, and Lulu Creek.

Table 6. 2: Placer gold production in the Thistle Creek area.

Creek Name	Years of Production	Recovered Au (oz)
Thistle Creek	1949-2008	62,000
Lulu Creek	2008-2009	510
Blueberry Creek	2008	18
Kirkman Creek	1914-2009	16,000
Barker	1980-2009	7,000

Four samples were collected within the Thistle Creek drainage for this study. An upper Thistle Creek sample was collected, in addition to left (Blueberry and Lulu creek) and right (Pete`s Gulch) limit tributaries (Fig. 6.10). These samples were complemented by two samples that were previously collected on Barker and Kirkman creek, which are incorporated into the following discussion.

6.3.2 Results

Sample populations of placer gold from upper Thistle, Blueberry and Kirkman creek samples display a generally similar variation in terms of Ag content (median of 13.2% Ag, 12.3% Ag and 13.2% Ag, respectively; Table 6.3; Fig. 6.11). Lulu Creek exhibits similar Ag content (median of 13.2% Ag), but does not contain the high-Ag end member (Ag wt % above 15.6). Pete's Gulch displays a high-Ag signature (median of 19.2% Ag) with a narrower compositional range, which

appears to be distinct from gold in the other localities. Table 6.3 summarizes the microchemical signatures observed in the Thistle Creek drainage. Only minor variation is observed in the abundance of Hg- and Cu-bearing grains within the drainage (Table 6.3).

The inclusion assemblages of the upper Thistle, Blueberry and Lulu creek gold samples are very similar; consisting of pyrite, Ag-Te and barite with minor base metals (galena and sphalerite). Pyrite inclusions were the dominant inclusion specie in the Pete's Gulch gold sample.

Morphological analysis of placer gold was conducted using the methodology employed by Chapman and Mortensen (2006), in which the sample population is subdivided according to morphological characteristics prior to compositional analysis. Details are provided in table 6.3 and the results are presented in Figure 6.12.

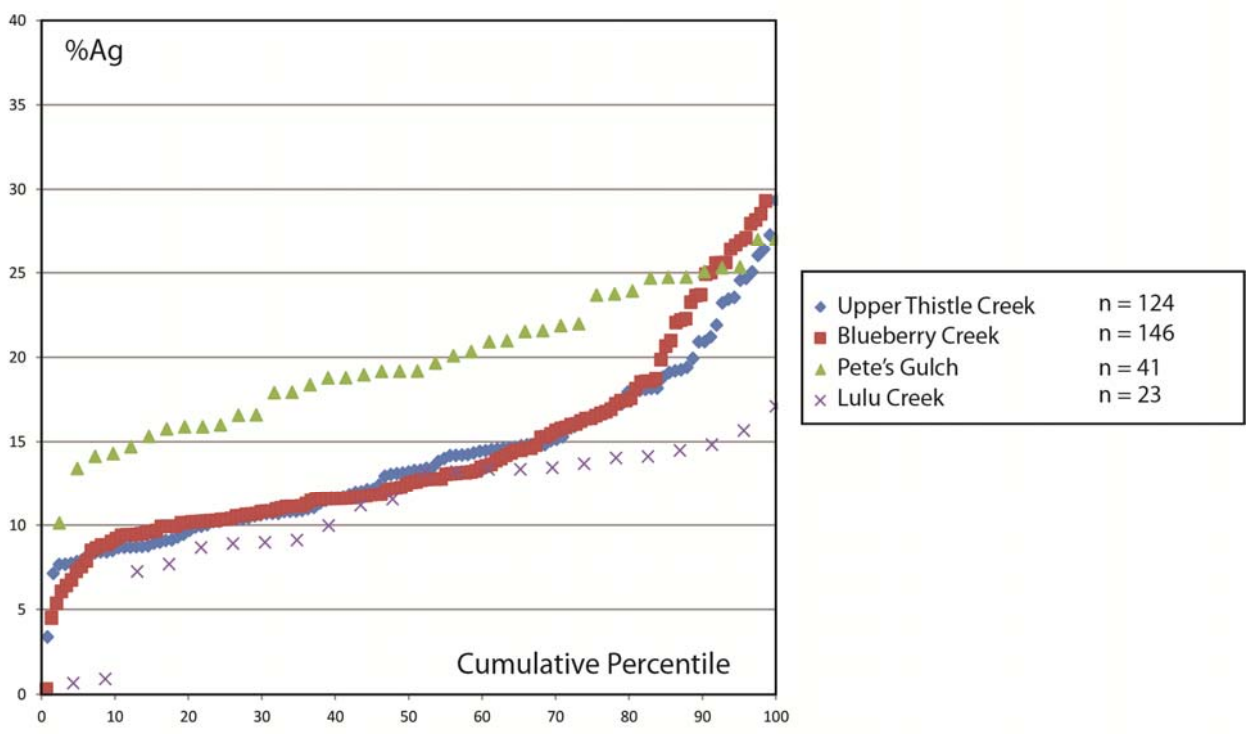


Figure 6. 11: Ag contents of placer gold for the Thistle Creek localities.

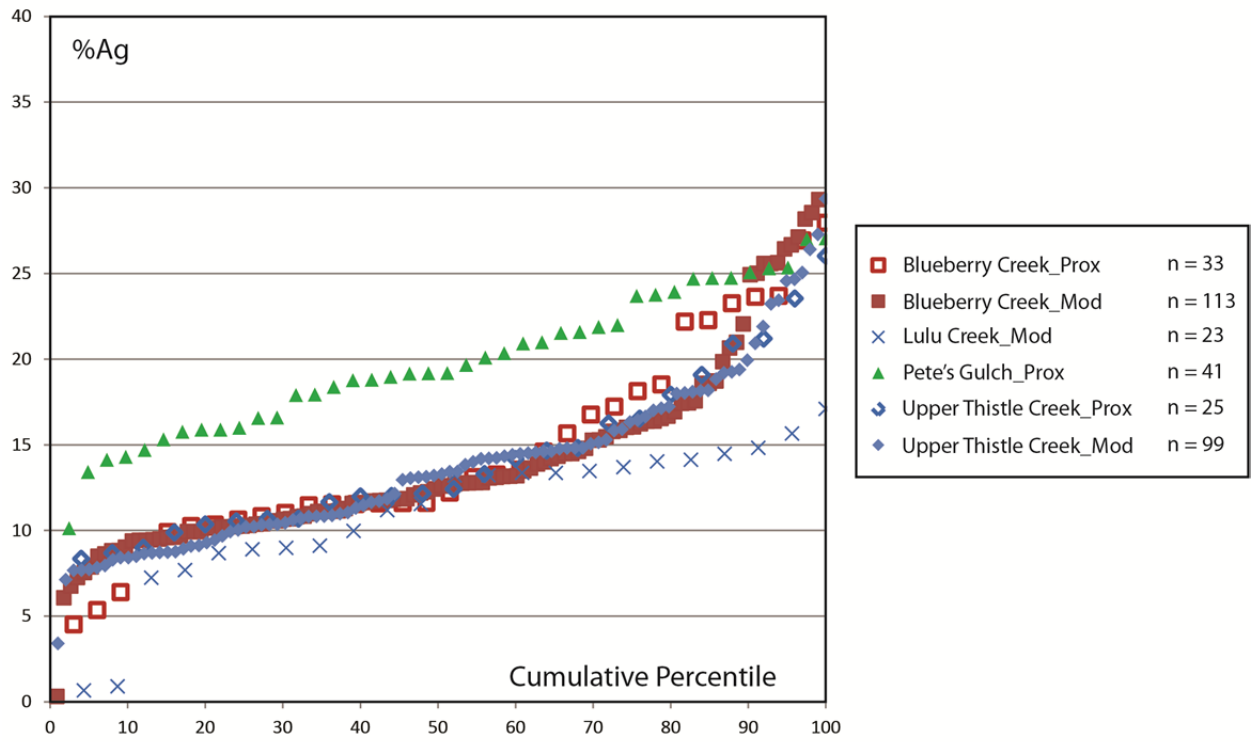


Figure 6. 12: Ag contents of gold within different shape categories from the Thistle Creek drainage.

Table 6. 3: Microchemical signatures of the Thistle Creek area.

Locality	N (number of grains)	Median Ag (%)	Cu bearing (%)[1]	Hg bearing (%)	Inclusion Assemblage	Morphological Groups
Upper Thistle Creek	124	13.2	11.3	32.2	pyrite, Ag-Te, galena, chalcopyrite, sphalerite	Proximal + moderate
Lulu Creek	23	13.2	39.1	0	pyrite, Ag-Te, chalcopyrite, galena	Moderate
Pete's Gulch	41	19.2	4.8	39.0	pyrite dominant, Ag-Te, chalcopyrite, galena sphalerite	Proximal
Blueberry Creek	146	12.5	12.3	43.8	pyrite, Ag-Te, barite, arsenopyrite, chalcopyrite, sphalerite, molybdenite	Proximal + moderate
Kirkman Creek[4]	63	13.2	11.1	41.2	2 inclusions present: hessite (Ag_2Te) and undetermined Co-Ni-As-S	n.a[3]
Barker Creek[4]	26	10.5	15.4	43.3	Ag-Te, pyrite, sphalerite, galena, rutile	n.a

[1] Cu bearing refers to the percentage of grains that contain Cu above the detection limit of 0.05%.
[2] Hg bearing refers to the percentage of grains that contain Hg above the detection limit of 0.2%
[3] Not applicable
[4] Samples donated by W. LeBarge, and analyzed by R. Chapman.

6.3.3 Discussion

The microchemical signature of placer gold from Kirkman, Thistle, Lulu and Blueberry creeks is very similar to that of type 2 gold from Golden Saddle. In contrast, gold from Pete`s Gulch exhibits a uniformly higher Ag content (median of 19.2% Ag; Fig. 6.11) and contains pyrite inclusions almost exclusively, which is more similar to type 1 gold at Golden Saddle.

The Kirkman Creek drainage is located to the south of Thistle Creek (Fig. 6.10), and similarly to Thistle Creek, the creek orientation is also interpreted to be related to west-northwest trending faults based on company geophysics (Kinross Gold Corp.; airborne magnetics and radiometrics; Bailey, 2013). The placer gold populations from Thistle and Kirkman creeks show very similar alloy compositions (Fig 6.13) and display a similar inclusion assemblage. This apparent spatial correlation between placer gold abundance and structure raises the possibility that the faults themselves may host gold mineralization. This hypothesis is in good agreement with morphological analysis conducted in the present study and reports of coarse and rich placer deposits present along the length of Thistle Creek (S. Schmidt, pers. comm.).

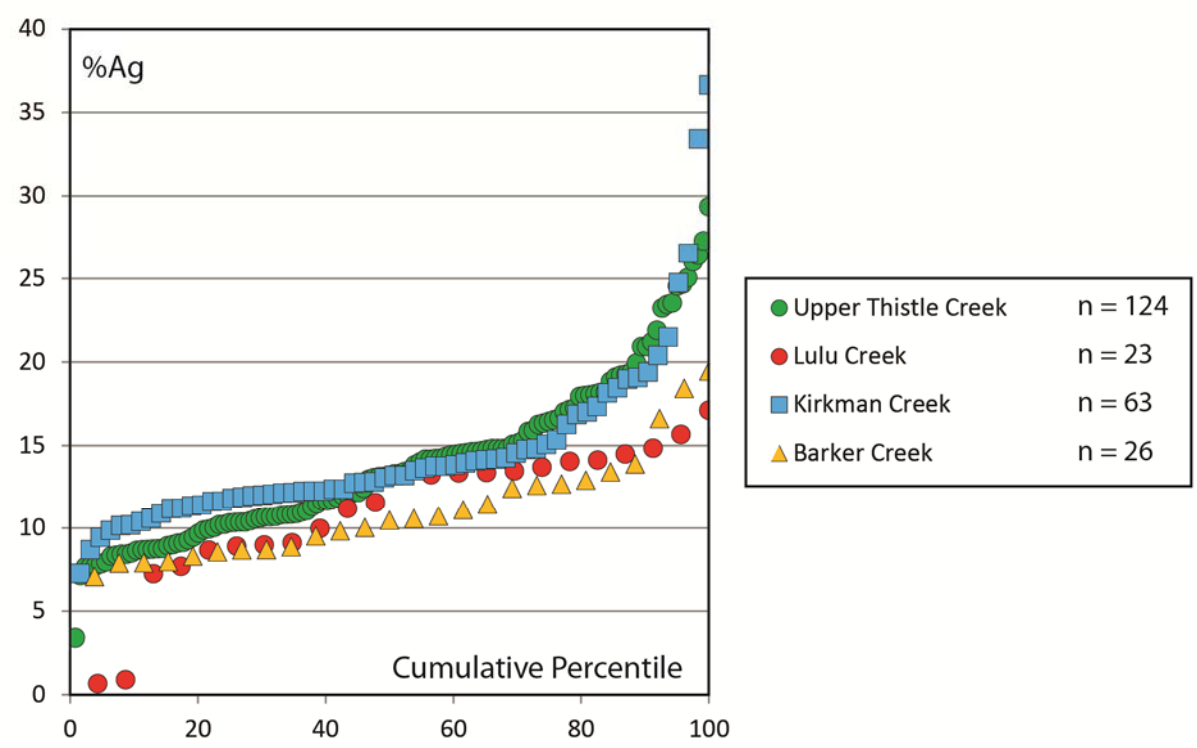


Figure 6. 13: Comparison of Ag content between Thistle, Barker and Kirkman creeks.

Gold from Blueberry and Lulu creeks exhibits a similar signature to the Thistle and Kirkman creek samples (Table 6.3). However, unlike gold within Thistle Creek, gold is abundant on north-south trending sections of these creeks and is absent in their headwaters, where an east-west trending structure is inferred to control stream orientation (Fig. 6.8). Right limit (south flowing) tributaries into Thistle Creek (Green Gulch and Scotch Gulch) have not been mined, suggesting

that gold is only abundant in areas affected by primary and/or secondary structures. The interaction between north-south trending thrust faults with an east-west trending transpressional fault system played an important role in the focusing of hydrothermal fluids resulting in the formation of the Golden Saddle deposit (Bailey, 2013). The similarity between gold from Thistle, Blueberry and Lulu creeks suggest that gold is derived from a common mineralizing event or related structure. The gold-rich areas along Blueberry and Lulu creeks are related to gold-bearing north-south trending secondary structures or northeast trending secondary structures similar to those observed controlling gold mineralization at the Golden Saddle deposit (Bailey, 2013).

The similarity between the microchemical signatures of placer gold from Thistle and Barker creeks (Fig. 6.11; Table 6.3) suggests that the gold-bearing mineralization within the Thistle Creek drainage extends into the upper reaches of Barker Creek. The lower reaches of Barker Creek have not been mined, which suggests that gold is only being liberated in the headwaters, and that the extent of the Barker Creek placer deposits represent the dispersion train from that source.

6.3.4 Conclusion

Placer gold in the Thistle, Barker and Kirkman creek drainages exhibits a small range of signatures that are very similar to those recorded at Golden Saddle. The presence of a ‘type 1 gold’ related gold in Pete’s Gulch and gold similar to ‘type 2 gold’ elsewhere suggests that the gold paragenesis at Golden Saddle is regionally pervasive. The economic importance of the Thistle Creek placers indicates that the gold source was substantial, although this has not yet been discovered. The interaction between north-south trending thrust faults with an east-west trending transpressional fault system played an important role in the focusing of hydrothermal fluids, resulting in the formation of the Golden Saddle deposit (Bailey, 2013). Similar structures are evident within the Thistle Creek drainage. Consequently, it may be that the source of the gold in Thistle Creek is a mineralized structure in the valley base.

6.4 Sixtymile District

6.4.1 Introduction

The Sixtymile District is located in the northwestern part of the YGP study area, straddling the Yukon-Alaska border (Fig. 6.14). This placer gold study focuses on the important gold-bearing tributaries of Miller, Bedrock and Glacier creeks (Fig. 6.14).

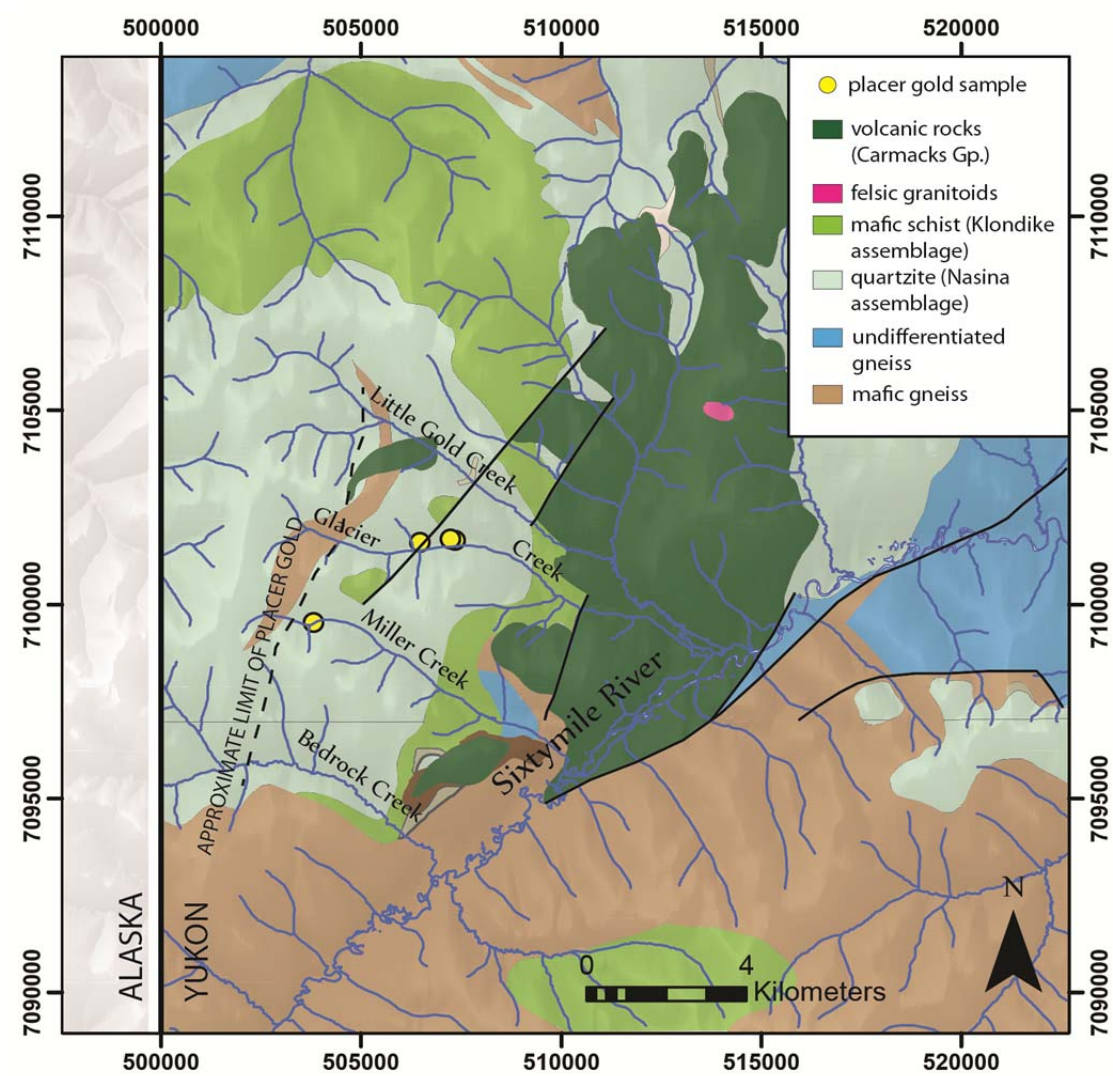


Figure 6. 14: Sample localities in the Sixtymile District. Projection: NAD83 UTM zone 7N.

The geology of the area consists of varied metamorphic rocks of the Nasina and Klondike schist assemblages. The metamorphic assemblages are unconformably overlain by andesitic and volcaniclastic rocks of the Late Cretaceous Carmacks Group and the entire rock package is cut

by northeast-trending, southwest dipping normal faults, which are observed to host gold-bearing epithermal style mineralization (Fig. 6.14). Two main types of mineralization are observed within the Sixtymile District: 1) orogenic style veining within the metamorphic basements rocks, comprising pyrite, galena, scheelite and gold-bearing quartz veins; and 2) epithermal style mineralization in the form of cockscomb-textured veins and vein breccias hosted mainly by Carmacks Group volcanic rocks, as well as the underlying metamorphic basement rocks (Allan et al., 2012a).

The Sixtymile District has been a major historic gold producer with around 250,000 oz of gold recovered from the main valley between 1941 and 2005 (LeBarge, 2006). Total gold production from Miller Creek is about 50,000 oz (LeBarge, 2007); however, production records for Glacier and Bedrock creeks are not available.

All three creeks (Miller, Bedrock and Glacier) exhibit abrupt upstream cessation in the abundance of placer gold represented by the extent of old placer workings, which is interpreted to represent a discrete influx of gold into each stream. The alignment of these points across the three creeks is interpreted to represent a linear feature (possibly a north-northeast trending structure). Prior to this study, it was not clear whether orogenic or epithermal gold, or both, contributed to the placer inventory.

Two placer gold samples were collected in this study (Fig 6.14). In addition, a sample population from the main Sixtymile River donated by Bill LeBarge was available for study.

6.4.2 Results

Figure 6.15 displays that the Ag contents of gold samples from this area are very similar. Gold alloys were homogeneous in the majority of cases. Mineral inclusions were rare; however, where present, they included pyrite, pyrrhotite, arsenopyrite, and barite.

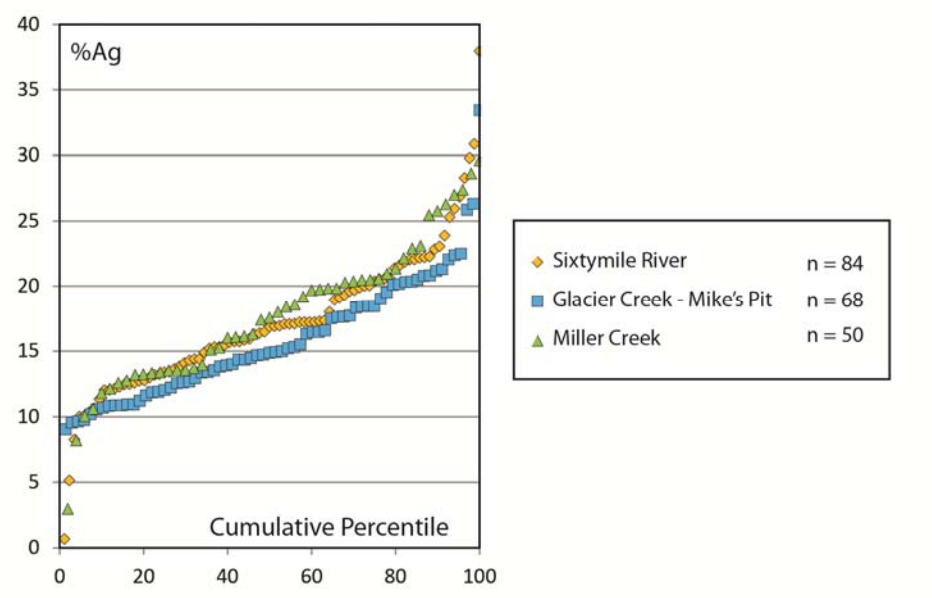


Figure 6. 15: Ag content of the Sixtymile District placer gold samples.

6.4.3 Discussion

Fig 6.15 shows that the range of Ag contents of all samples from the Sixtmile area are very similar. Gold is a simple binary Au-Ag alloy and whilst inclusions are uncommon, the sulphide-sulpharsenide signature is suggestive of an orogenic source. This deduction is also compatible with the hypothesis of a structural control on gold influx into Miller, Bedrock and Glacier creeks and abundant orogenic vein float observed in creek bottoms (A. Allan pers. comm.)

Cinnabar has been observed in the heavy mineral concentrate of a placer operation located at lower Miller Creek, which may suggest local epithermal mineralization. However, the range of alloy compositions in gold grains from Miller Creek is essentially the same as for the other samples in the area where cinnabar is absent. The apparent absence of an epithermal signature may either be a consequence of a gold-poor system, or very small gold grain size which precludes concentration in the placer environment.

The microchemical signature of gold from the Sixtymile District is consistent with that of gold derived from other orogenic sources in the northern Yukon-Tanana terrane. These similarities are discussed further in Chapter 7.2.1.

6.4.3 Conclusion

Placer gold in the Sixtymile District was almost entirely derived from orogenic gold sources that were controlled by north-northeast trending brittle structures that cross-cut the Nasina and Klondike schist assemblage. Any epithermal mineralization present in the drainage has been at most a minor contributor to the placer gold deposits.

7 Final Remarks And Future Work

7.1 Evaluation Of Shape Analysis

7.1.1 Methodology

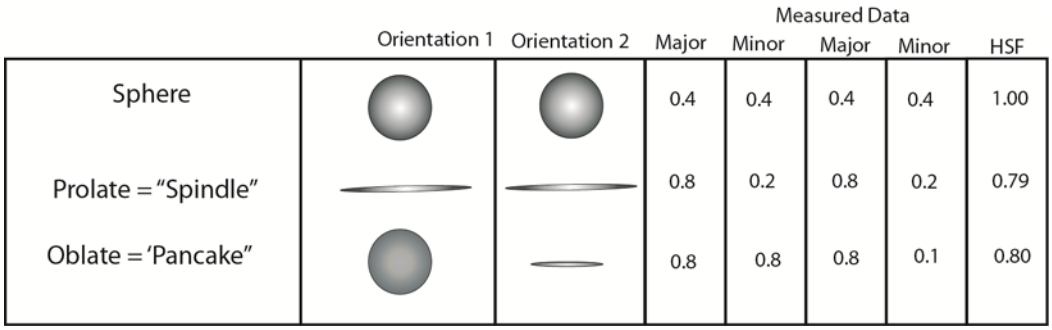
The methodology of distance-to-source calculations, on the basis of progressive modification of gold grain morphology, was developed by Crawford (2007) for application to drainages in the Klondike District. One aim of the present study was to test the applicability of this method to other areas in the western Yukon. Through this work, a new Java scripted program has been developed that has made calculations more efficient and eliminated the potential for human error. In addition, the program integrates distance-to-source calculations with spatial coordinates from topographic and hydrographic data, allowing the results to be translated easily into a GIS platform and compared against other geospatial datasets such as geology, geochemistry, and geophysics.

The samples used in the study of Crawford (2007) were collected mainly from active placer mining operations. In the present study, this was not always possible and therefore two experiments were undertaken in order to assess variability in gold grain morphology that could occur as a consequence of sampling location. Firstly, the effect of sedimentary environment was studied by collecting gold grains from different locations across a valley. Secondly, the effect of sampling mined areas was investigated by studying the shapes of gold grains from both sluice feed and discharge. Neither test was conclusive, in part as a consequence of limitations of the test locations and statistical uncertainty (Chapter 3.4). However, they represent the first detailed empirical studies of morphological variation in gold grains within the placer environment. Future studies could further test this approach, but with more appropriate choice of sampling locations. In addition, any observed variation in the morphology of gold grains within a sample population should be recorded at the time of collection, such that the sampling activity may explore the presence of any potential bias.

The Hofmann shape factor (HSF) was adopted by Crawford (2007) as an approximation of gold grain morphology that could be used for the shape evolution model because variations in this parameter represent the morphological evolution of gold grain shape during fluvial transport.

The model assumes that the initial shape of gold grains are spherical (HSF = 1) and with transport along a longitudinal stream profile evolve into ellipsoids (HSF < 1). However, this approach is not sensitive to natural variations in original gold grain shape or scenarios involving very limited fluvial transport.

Figure 7.1 displays a series of hypothetical grain shapes and their corresponding HSF values. For example, a prolate ("spindle") ellipsoid with a 4:1:1 ratio of semi-principle axes, which might represent wire gold in nature (indicative of limited fluvial transport; e.g., Fig. 5.3) has a HSF value of 0.79. If a sample placer population, which was collected proximal to a lode gold source, contained numerous grains of this morphological type, the average HSF of the population would be skewed to HSF values that would be suggestive of an erroneously large transport distance. Similarly, Figure 5.3c shows rough but flaky grains which appear to have undergone little fluvial transport. In both these cases, application of the HSF would result in misleading results, but such morphologies are easily recognised and may be immediately interpreted as indicative of a proximal source.



	Orientation 1	Orientation 2	Measured Data Major	Minor	Major	Minor	HSF
Sphere			0.4	0.4	0.4	0.4	1.00
Prolate = "Spindle"			0.8	0.2	0.8	0.2	0.79
Oblate = 'Pancake"			0.8	0.8	0.8	0.1	0.80

Figure 7. 1: Hypothetical grain shapes and their associated HSF values.

Figure 7.2 displays the cumulative percentile plot of HSFs of all the grains analyzed in this study and shows a lower limit of 0.70, which may be a function of the way gold grain flakes are transported.

River systems preferentially entrain and transport certain grains according to particle size (e.g., Shields, 1936; Smithson et al., 2002). In order for a particle to be entrained, the fluid flow must be above the critical Shields stress (as defined by the ratio of force acting to entrain the grain (boundary shear stress) to the mass of the particle; Shields, 1936). Hence, grains with smaller diameters are more easily entrained, as they have smaller mass.

Grain shape is observed to have minimal effect on the threshold for the entrainment of a particle; hence, grain size is the primary determinant of the shear stress required for particle transport to occur (Jerolmack et al., 2011). Sedimentological research has focused mainly on the transport of rock clasts, which typically do not exhibit the same extremes of morphology present in populations of gold grains (e.g., gold flakes), with the exception of micaceous minerals.

Studies focused on gold recovery by gravity separation have identified that the production of flakey gold has an adverse effect on recovery. Chapman and Houseley (1996) reported that the orientation of flakey particles give rise to hydrodynamic effects which can affect the settling rate, and that the settling velocity of gold grains of a given mass have been shown to be highly dependent on particle geometry.

The modification of grain shape in a mobile bedload occurs through particle-on-particle and particle-on-bedrock collisions (Bullard et al., 2004), in addition to rubbing between, and crushing of transported particles (Marshal, 1927; Kuenen, 1956). Gold grains transported in the bedload are envisaged to modify from sub-spherical morphologies (HSF close to 1) into flatter, flakey morphologies through collisions with transported clasts and/or 'pinching' of gold between larger clasts. However, at a certain point in the progressive development of flakey morphologies, a flake is expected to be entrained in the water column due to its lower grain-shape dependent setting velocity. In this environment, a limited number of particle collisions are likely to occur, resulting in larger transport distances that may not be reflected in the morphological record. It is therefore inferred that there is a sedimentological basis for the lower limit of HSF observed in this study (Fig. 7.2). As a result, the approach adopted for interpreting distance-to-source for placer gold populations is restricted to relatively equant grains and relatively short transport distances, and excludes extremely flakey morphologies that have experienced much greater fluvial transport.

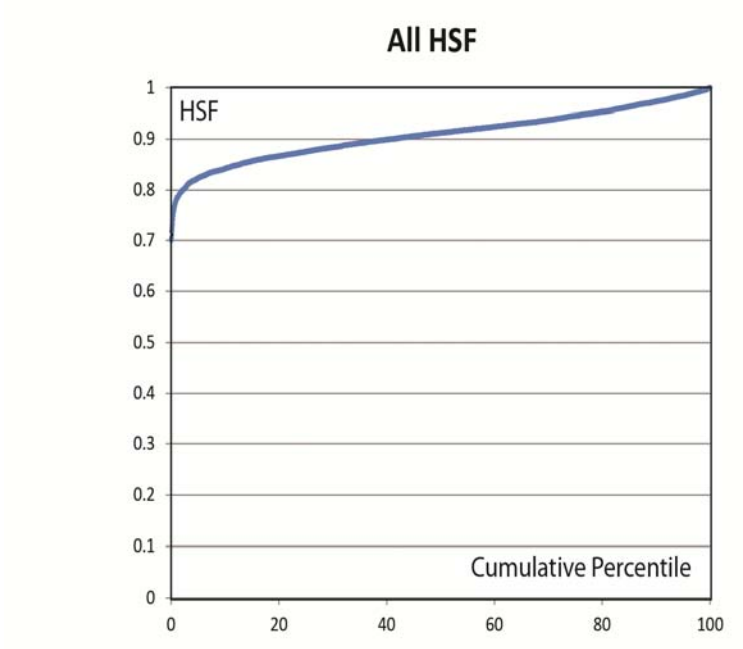


Figure 7. 2: Cumulative percentile plot of all HSF values recorded during this study.

7.1.2 Evaluation Of Quantitative And Qualitative Analysis Of Gold Grain Morphology

During this study two different approaches have been used to infer transport distance from gold grain morphology. The methodology of Crawford (2007) has been modified and adapted into a computer program such that calculation steps can be semi-automated and the results can be more easily translated into GIS platforms. However, the methodology still demands manipulation of each individual gold grain, which is a time-consuming process and one which could ultimately render the approach unattractive in an exploration context.

The alternative method of qualitatively assessing transport distance based on morphology of a grain prior to compositional analysis has proved useful in the past (Townley et al., 2003; Chapman and Mortensen, 2007), and has been applied to advantage in the present study (e.g., identifying influxes of gold along the length of Thistle Creek; Chapter 6.3).

Quantitative studies have proved useful through using series of HSF-%Au plots for specific drainages to identify points of influx of gold types (e.g., Seymour Creek drainage; Chapter 5.3), identify modification of grain shape with transport (e.g., Henderson Creek; Chapter 4.1) and establish whether gold is being liberated along the creek itself (e.g., Revenue Creek; Chapter 5.3). However, identification of gold influxes can be achieved by additional sampling and

statistical consideration of Ag contents of gold. In addition, proximal liberation of grains along a creek can also be identified using a quantitative approach (e.g., Thistle Creek).

Distance-to-source calculations have been tested against the locations of known gold and silver anomalies and/or lode gold occurrences across the project area. In some cases, these correlate spatially with known anomalies (e.g., Vertigo and Sabotage prospects, Henderson Creek) and in others, have suggested new areas of gold potential that have not yet been systematically evaluated. The correlation of distance-to-source calculations and compositional data with known geochemical anomalies adds confidence to the speculation of other, undiscovered sources. However, in other field areas, transport distance estimates have failed to correlate with obvious lode gold sources (e.g., the past gold producing Laforma deposit, Seymour Creek). Intermittent identification of known gold sources to date suggests that further refinement and/or more careful selection of compositional groups may be needed for the successful application of this quantitative method.

Technical aspects of distance-to-source calculations likely have an effect on the success of these estimates. For example, creeks that are tested against the shape evolution model are restricted to those identified on the 1:50,000 hydrographic shapefile, which may have inhibited the identification of some anomalies and/or known gold prospects (e.g., the creek that drains the Laforma deposit was not analyzed). At present, the methods for constructing stream profiles involves a manual aspect by which the user has to select points at which the contour and stream shapefiles intersect. Each individual transport path is required to be an individual (.txt) which involves a process of selecting transport paths and exporting them in .txt format individually (see Appendix A.1 for the method of constructing stream profiles). However, Dinesh et al. (2012) have developed a new GIS supported tool for quantitative analyses of drainage networks. This work could be incorporated into the quantitative approach which would improve speed and eliminate a source of bias caused by restricting the analyzed transport paths to those present in 1:50,000 stream shapefile.

In drainages containing a variety of mineralization styles (e.g., Seymour Creek), specific gold signatures were difficult to establish. In order to generate a meaningful transport distance result, at least 50 grains are needed in order to justify the isolation and individual processing of

a particular population (Crawford, 2007). In drainages where specific sub-populations cannot be identified, shape data for all grains were used in distance-to-source calculations to produce a transport distance estimate, this amalgamation of grain shape data likely contributes to unsuccessful transport distance estimates.

In summary, further testing is needed to successfully apply the shape evolution model as a robust method of modelling transport distances. At present, the time consuming process of manually manipulating individual grains for image analysis is one of the main restrictions on the use of the quantitative approach. Table 7.1 shows our current understanding of the range of conditions upon which either the quantitative or qualitative approach might apply.

Table 7. 1: Current understanding of the conditions upon which either the quantitative or qualitative approach apply.

Scenario	Quantitative approach	Qualitative approach	Information through inspection
Autochthous placer gold liberated as wire, rough particles, rough flakes [1]	Not necessary	Not necessary	Easily carried out in the field
Autochthonous placer of coarse (> 2mm) gold particles. [2]	Not necessary	Not necessary	Proximal source assumed
Allochthonous placer, variation in grain morphologies [3]	Yields best information for points of influx	Yields some information on points of influx, but is less useful where there may be multiple possibilities for a source	No useful information
Allochthonous placer, all grains flakey, but concentrated within a placer [4]	Yields best information for points of influx	Of limited use, as qualitative classification of morphology is insufficiently rigorous	No useful information
Allochthonous placer of extremely flaky gold particles [5]	Limited use due to lower limit of HSF	No useful information	No useful information

[1] E.g., Revenue Creek, Mechanic Creek (Chapter 5.2)
[2] Upper Miller, Sixtymile District (Chapter 6.4)
[3] E.g., Henderson Creek drainage (Chapter 4.2)
[4] Lower Seymour Creek (Chapter 5.3)
[5] None in the present study: example would be flake gold from the bars on the Stewart River (R Chapman pers. comm.)

7.1.3 Conclusion

1) Gold grains liberated from *in situ* mineralization may exhibit morphologies which generate HSF values suggestive of considerable fluvial transport. However, such morphologies and textures are easily recognised during sample collection.

2) Grain shape data suggests that there is a natural limit (HSF ~0.7) to the 'flakiness' attained by gold grains. This result sets a limit to the HSF evolution-transport distance relationship.
3) Whilst compositional studies alone can help identify the presence of multiple sources of gold within a placer population, the combination of compositional and morphological studies can provide detailed information of the point of influx of each population.
4) Further tests are needed to improve the quantitative approach as a method of predicting transport distance of gold grain populations. Application of this technique in an area of known mineralization could be conducted in order to establish the accuracy of distance-to-source calculations. In addition, it could be applied in an area with known contrasts in grain morphology, to investigate how this affects distance-to-source calculations.
5) The qualitative and quantitative approaches are applicable in a range of conditions. Table 7.1 shows our current understanding of the range of conditions upon which either approach might apply.

7.1.4 Future Work

The process of analyzing grain shapes remains the most time consuming process in the application of the quantitative approach. However, Kubel et al. (2010) conducted electron tomography studies, and collected 3D analysis with nanometer resolution. Providing that batch processing of samples could be conducted using this method, tomography may be a faster method of collecting grain shape data. However, in order to maintain the comparison of morphology and composition on a grain-by-grain basis, the systematic methodology of maintaining morphological groups during compositional studies remains necessary. Therefore, the speed of this process will still be dependent on the user.

The method of constructing stream profiles in the present study involved a manual aspect. Future work could incorporate the new GIS tool of Dinesh et al. (2012) into the quantitative approach which would improve speed and eliminate a source bias caused by restricting the analyzed transport paths to those present in 1:50,000 hydrographic shapefile.

Surface roughness could be incorporated into the shape evolution model, as suggested by Crawford (2007). Surface roughness is another visual indication of the degree of alluvial transport. This addition to the shape evolution model may significantly improve the accuracy of this model.

The shape evolution model currently uses a HSF parameter to describe gold grain morphology; however, research thus far has indicated a lower limit of ~0.7 HSF. Future work could focus on evaluating other shape parameters that might be more sensitive to morphological changes of flaky morphologies and would therefore be more applicable for far travelled gold grains.

7.2 Evaluation Of Regional Gold Compositional Signatures

This work represents a collaborative study that involves the integration of data generated by the author, supplemented by extensive datasets from previous studies in the Klondike District (Chapman et al., 2010a, b) and Indian River drainages (Chapman et al., 2011), which forms the basis of ongoing studies by Dr. Rob Chapman and Prof. Jim Mortensen.

Intrusion-related and orogenic mineralizing events of the Mesozoic era are responsible for the bulk of the gold mineralization present in the northern Yukon-Tanana terrane (Allan et al., in review). This study has shown that these styles of mineralization exhibit distinct microchemical signatures in gold both in lode and placer settings. Orogenic mineralization is present mainly in the Klondike, White Gold, Sixtymile and Fortymile districts (including the Henderson, Thistle and Tenmile creek drainages), whereas intrusion-related mineralization is dominant in Dawson Range to the south (Fig. 1.1; Allan et al., in review).

7.2.1 Gold Signatures Derived From Orogenic Gold Mineralization

A previously unrecognized, regionally-widespread orogenic gold mineralization event that formed in Middle to Late Jurassic time has been established in the White Gold and Klondike districts (Bailey, 2013; Allan et al., in review; Mortensen, unpublished data). The gold mineralization in the Sixtymile and Fortymile districts (Fig. 1.1) is also inferred to relate to this mineralizing event, based on analogous geological relationships and structural style (Allan et al., in review). All such mineralization occurs in discordant, brittle to brittle-ductile structures (D_4 event of MacKenzie and Craw, 2010), that include simple dilational veins, veinlet arrays, brittle

to ductile shears, stylolites, axial surfaces of kink folds, and breccias (Bailey, 2013; Allan et al., in review). Inferred thermal-crustal regimes for this event range from mesozonal to epizonal, with epizonal features (e.g., breccia) more prevalent in the White Gold district and mesozonal features (e.g., milky quartz veins) more common in the Klondike district (Rushton et al., 1993; Allan et al., in review). The superimposition of epizonal (purely brittle) on mesozonal (brittle-ductile) features may indicate significant crustal exhumation during the time of mineralization (Rushton et al., 1993; Allan et al., in review), and this is interpreted to occur during regional uplift and denudation of the Yukon-Tanana terrane in Jurassic time (supported by regional cooling ages in Breitsprecher and Mortensen, 2004).

The regional expressions of orogenic gold mineralization are reflected in microchemical signatures of gold. Chapman et al. (2010b) identified four distinct gold signatures in the Klondike District, three of which were interpreted as being derived from separate hydrothermal centres. The fourth was interpreted as a “pervasive regional type”, and was subsequently shown to be very similar to the placer gold recorded in the Indian River immediately to the south of the Klondike District (Chapman et al. 2011; Fig. 2.4). Centres of hydrothermal activity are proposed in the Lone Star and Last Chance-Bear Creek areas (Fig. 2.4). Both exhibit a systematic variation in alloy composition. In the Last Chance - Bear Creek area, Ag increases with Hg, in a westerly direction and a similar relationship is observed between the Lone Star and Violet occurrences. However, localities to the east of Lone Star demonstrate increasing Ag contents within the alloy, but Hg is absent. At Lone Star the differences in the alloy compositions correlated with variation in the inclusion assemblages. The gold from the Last Chance-Bear Creek area was distinguished not only by a relatively high-Ag content but also through the abundance of arsenopyrite inclusions, which are absent in Lone Star gold mineralization. Identification of complexity in the gold signature formed by a single hydrothermal system is an important advance in understanding placer-lode relationships in the region as it had previously been interpreted that each signature corresponded to separate mineralizing events (e.g., Chapman et al. 2000a).

Similar variations in gold compositional signatures were observed in placer and lode samples from the White Gold property. Two major signatures of gold were observed (see Chapter 6.2.2) and there appears to be parallels with the evolution of the Lone Star hydrothermal system. In

particular, an early phase of gold mineralization yields a relatively simple signature (i.e., no Hg in the alloy, and a simple inclusion assemblage). A second stage of mineralization in the Golden Saddle deposit contains gold with a more Ag- and Hg-rich alloy composition. Whilst a gold signature observed in the nearby McKinnon prospect was substantially richer in Ag and Hg. The first phase of gold mineralization was associated with pyrite, whilst the second was closely linked with galena, barite, sulphosalts and hessite. In addition, Ag and Hg contents in gold alloy between Golden Saddle core samples and the surface sample were also observed to vary with depth, yielding both higher Ag and Hg values for the surface sample (Fig. 6.6). Chapman et al. (2010a) discussed a similar relationship between Ag and Hg values for samples surrounding the Lone Star occurrence (described above). These authors interpreted that higher Ag contents of alloys are indicative of precipitation during the later stages of mineralization when $Au/Ag_{(aq)}$ had fallen, based on the suggestion of Gammons and Williams-Jones (1995) that $Au/Ag_{(aq)}$ falls as a consequence of the initial preferential precipitation of Au. Furthermore, Chapman et al. (2010a) suggested that the variation in Hg content of gold alloys from sites around Lone Star to be a consequence of the regional P-T variation suggested by Rushton et al. (1993). These similarities in the behaviour of Ag and Hg in gold alloy between the Lone Star and Golden Saddle deposits suggest that these features may be regionally applicable to Jurassic orogenic gold systems in the Yukon.

Elsewhere in the northern Yukon-Tanana terrane, there was limited access to *in situ* mineralization that could be compared with the placer samples. However, from the mineralogical observations of the lode localities described above and consideration of the signatures of placer gold, it has been possible to make broad interpretations about the style of mineralization present throughout the study area.

The identification of Au-Ag alloy heterogeneity within a single orogenic mineralizing system limits the use of Au-Ag alloy as a primary discriminant for characterization of gold types. However, consideration of the inclusion assemblages present allows more meaningful groupings of placer populations. Figure 7.3 provides a graphical illustration of the inclusion assemblages recorded in gold samples from throughout the study area. In some cases where inclusions were rare, individual sample populations have been combined to generate a more reliable signature.

An important finding of the large sampling program undertaken in this study is the widespread occurrence of hessite (Ag_2Te) as an inclusion species. Previously, the presence of tellurides has been interpreted as indicative of a magmatic influence (Afifi et al., 1988), but clearly this association is not diagnostic. A study of gold from the Fortymile District of Alaska, also undertaken as part of the Yukon Gold Project (Chapman et al., 2012b), has identified similar Te-bearing signatures in samples of orogenic gold, reinforcing the regional expression of this signature. Inspection of the mineralogy of the inclusion suites facilitated identification of criteria which could be used to characterize populations. The Lone Star occurrence was not included in this exercise because of the variation of inclusion signatures within the zoned system proposed by Chapman et al. (2010a). The criteria used for classification are as follows: (1) inclusions containing Ag and Te (i.e., hessite, Au-Ag tellurides and Ag sulpho-telluride); (2) As- bearing inclusions (typically arsenopyrite but also gersdorffite (FeNiAsS)); (3) base metal inclusions (galena + chalcopyrite + sphalerite); and (4) pyrite plus pyrrhotite. Placer gold samples from a selection of locations investigated in this study have been plotted on triangular diagrams according to the modal abundance of each of the four inclusion categories (Fig. 7.3).

The placer grains fall into two main groups according to their inclusion assemblages:

- Group 1 comprises gold from those localities which exhibit Te-bearing inclusions and commonly display compositional variability within the mineralizing system. This group includes White Gold, Thistle Creek (including Pete's Gulch), Henderson Creek, Scroggie Creek, Eureka Creek, and Maisy May Creek. A small sample from Barker Creek was not included in the diagram, but also comprised Te and pyrite inclusions only.
- Group 2 comprises gold from those localities which contain no Te-bearing inclusions, but where arsenopyrite is present. This group includes Tenmile Creek, Sixtymile River area, and Last Chance Creek (Klondike District).

A third group (Group 3) comprises gold from the Moosehorn Range (Fig. 1.1), which is distinguished on the basis of its pronounced Sb signature. This group is not shown on Figure 7.3.

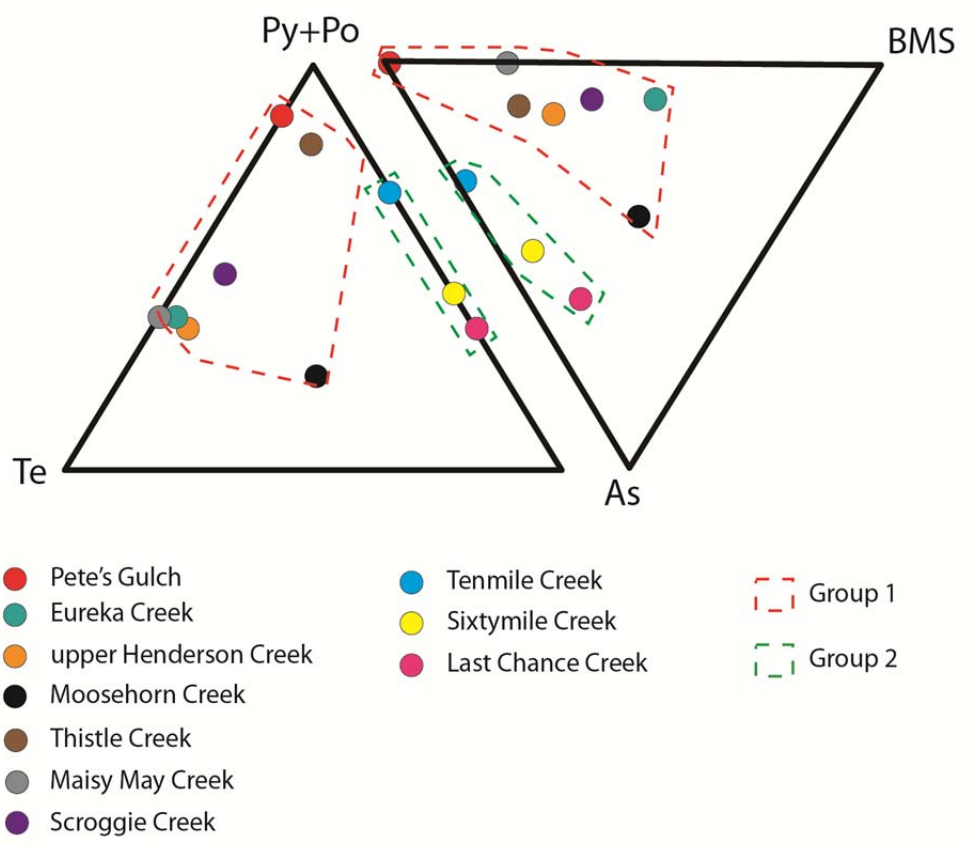


Figure 7. 3: Ternary inclusion diagrams for the regional placer gold signatures. Py=pyrite, Po=pyrrhotite, Te=Te-bearing, As=As-bearing and BMS=base metal sulphides (including: galena, sphalerite, chalcopyrite).

Table 7. 2: Supporting Table for Figure 7.3. Values represent the number of inclusion present within each category for each sample (or composite of samples).

Locality	Py+Po	BMS	Te	As
Pete's Gulch	21	0	2	0
Eureka Creek (Chapman and Mortensen, 2007)	10	14	18	1
Upper Henderson Creek composite (Including: Camp, Haydens Pit and Goldengate Creek)	20	8	33	4
Thistle Creek composite (Including: upper Thistle Creek, Blueberry and Lulu Creeks)	80	18	8	10
Moosehorn Creek (Henderson Creek tributary)	2	3	5	5
Maisy May Creek	7	2	12	0
Scroggie Creek (unpublished data – R. Chapman)	6	4	5	1
Tenmile Creek composite	50	0	0	23
Sixtymile Creek composite	5	1	0	6
Last Chance Creek (data from Chapman et al., 2010b)	16	6	0	35

Most populations classified as Group 1 exhibit a similar suite of minerals, present in slightly different proportions. However, the samples from Henderson and Eureka creek samples contain both Te- and As-bearing mineral inclusions (Fig. 7.3), and exhibit complex inclusion species (e.g., polymetallic sulpho-tellurides and inclusions which comprise two or more different minerals). These features have not been observed elsewhere. Elsewhere, the inclusion suite in placer gold from Scroggie Creek exhibits a typical Group 1 signature in Figure 7.3 but the mineral species are atypical, in that most Pb- bearing minerals are altaite (PbTe) and Ni is present as melonite ($NiTe_2$). The presence of these minerals suggests that in some localities the Te fugacity may be relatively high (Affifi et al., 1989) and that it probably decreases during the mineralization process as evidenced by the presence of mixed PbTe/PbS inclusions in two gold grains from Scroggie Creek. Whilst many populations classified in Group 1 exhibit a very low As signature, other samples contain Te-bearing and As-bearing minerals to a similar degree. In some cases, the change in sub signature within Group 1 members appears geographically abrupt, e.g the relatively high As signature in gold from Moosehorn Creek (a tributary of Henderson Creek) which differs both from gold to the West (Henderson Creek) and the east (Maisy May Creek) which are both As-poor (Fig 7.3). However, the variable compositional

signature is consistent with other samples within Group 1. The controls on the distribution of Te and As gold signatures are discussed in Chapter 7.2.2 and the presence of complex inclusions are discussed in Chapter 7.2.3.

The gold signature present in the Moosehorn Range is internally consistent and Pb-Sb-S species and arsenopyrite are the dominant inclusion types. As and Sb bearing inclusions are common components of orogenic gold microchemical signatures (e.g., Tenmile Creek and Henderson Creek, respectively) but not the extent observed here. However, in contrast to Jurassic orogenic mineralization of the Klondike and White Gold districts (Bailey, 2013; Allan et al., in review), the orogenic gold-bearing quartz veins of the Moosehorn Range are part of a younger, mid-Cretaceous metallogenic event that extends eastward into the Dawson Range (Joyce, 2002; McKenzie et al., 2013; Allan et al., in prep.). The mid-Cretaceous orogenic systems may have a somewhat different metal association that is reflected in the gold microchemical signature.

7.2.2 Speculation On Controls On Orogenic Gold Mineralization

Investigations of orogenic gold mineralization within the study area (Allan et al., in review) have greatly the enhanced current understanding of orogenic gold in the northern Yukon-Tanana terrane. There is a strong structural control on orogenic systems; hence, the rheology of various host rock types commonly exerts a major influence on permeability and therefore how and where orogenic mineralization is localized. For example, Bailey (2013) identified that the Golden Saddle deposit resource was hosted primarily in Late Permian feldspar augen orthogneiss, due its rheological preference to accommodate strain through brittle deformation.

Lead isotopic studies of orogenic mineralization also indicate that some systems (e.g., Lone Star) show highly variable isotopic compositions, suggesting very local and diverse sources for the contained metals. However, the relatively homogenous Pb isotopic compositions of samples derived from the gold mineralization in the Moosehorn Range strongly suggest either a single source for Pb (and presumably Au) or generation from a very large hydrothermal system that effectively homogenized Pb derived from isotopically distinct source reservoirs. These differences in Pb isotope composition show that the chemical composition of the mineralization is influenced by the geochemistry of the local lithologies. Consequently it could be expected that the microchemical signature of gold, and possibly the abundance of gold, will

vary accordingly. For instance, in the Klondike District variable amounts of disseminated syngenetic Pb-Zn-Cu-Au-Ag mineralization is present within the Klondike schist (Mortensen et al., 2006); remobilization of gold from this pre-existing mineralization into orogenic veins is one explanation for the high gold inventory in the Lone Star area (Mortensen, unpublished data).

As described in Chapter 7.2.1, gold signatures across the Yukon-Tanana terrane exhibit either an As or Te dominant gold signature, and in rare cases, samples contain a combination of As- and Te-bearing mineral inclusions (e.g., Henderson and Eureka Creek). Previous lithogeochemical studies have not typically assayed for Te, and at present the controls on the distribution of this signature is therefore unknown. However, MacKenzie et al. (2010) observed a lithological control on the arsenic content of orogenic gold systems in the Yukon. These authors inferred that the gold precipitation mechanism varied between different rocks types according to the different host rock mineral assemblages present. In particular, gold at the Golden Saddle deposit hosted by felsic metaplutonic rocks is associated principally with pyrite and elevated Mo (Bailey, 2013). In contrast, gold mineralization in the graphitic quartzite-hosted Arc deposit is associated with up to 1 wt.% arsenic as arsenopyrite in veins and disseminations, and was inferred to have precipitated via chemical reduction of mineralizing fluids by graphite (MacKenzie et al., 2010). This Au-As association is observed within graphitic quartzite of the Arc deposit of the White Gold deposit, and the same host rock lithology (Nasina assemblage) and Au-As association is observed in mineralization in the Sixytmile district (J. Mortensen and M. Allan, pers. comm.). Because of such lithologic controls on the mineralogy of orogenic systems, in principle, correlations can be drawn between geology and placer gold microchemical signature.

7.2.3 Importance Of Epithermal Mineralization In The White Gold District

In previous studies of placer gold within the study area, some microchemical signatures were interpreted as indicative of low-sulphidation epithermal mineralization (Dumala and Mortensen, 2002; Chapman and Mortensen, 2006). These authors postulated that gold from Eureka Creek was derived from a low-sulphidation epithermal source on the basis of: 1) large variation in Ag and Hg in the alloy; 2) considerable internal heterogeneity within gold grains, interpreted as rapid evolution of mineralizing fluids, consistent with the epithermal

environment; and 3) the presence of Te- and Se-bearing mineral inclusion species previously unrecognised in samples from the region. In addition, the signature appeared spatially related to exposures of Carmacks Group volcanic rocks, and it was reasonably proposed that gold in Eureka and Black Hills creeks was derived from an undiscovered epithermal vein source (Fig. 2.5). In a subsequent study of the Indian River and Black Hills Creek placer deposits Chapman et al. (2011) showed that two gold signatures were observed within Black Hills Creek. A similar 'epithermal' signature was present in the head of the creek, whereas a signature more typical of an orogenic source was present in the middle and lower reaches.

Through the collection of more information during this study, the origin of gold in Eureka Creek has been re-evaluated. This re-evaluation is possible because of the characterization of zoned orogenic hydrothermal systems at Lone Star in the Klondike District (Chapman et al. 2010a), which showed that diverse microchemical signatures could be attributed to the same mineralizing system. In this way, the high-Ag, low-Hg gold from the Violet occurrence could be reconciled with the low-Ag, no Hg gold from the Lone Star occurrence. Whilst this potential variability in the alloy composition was appreciated in the work of Chapman et al. (2011), it was considered that the unusual polymetallic- sulpho telluride inclusion signature of the placer and elluvial gold from upper Eureka Creek was sufficiently distinctive to retain the epithermal origin. However, in the present study similar inclusion signatures have been recorded in the placer gold from Henderson Creek, in areas distal from volcanic rocks.

These same complex inclusion assemblages are found in isolated locations within drainages that display an overall orogenic signature. Features of mineralization in the White Gold District display local diversity in the host rock, mineralogy, alteration, and therefore metal signatures of orogenic mineralization (Allan et al., in review). In addition, mineralization in the Henderson Creek drainage (in particularly the Sabotage prospect) displays similar geological features to the Golden Saddle deposit, which exhibits brittle-epizonal features interpreted to have formed at shallow crustal levels. These brittle features associated with shallow emplacement, likely correspond to a highly fluctuating geochemical environment consistent with the highly variable gold alloy compositions and diverse inclusion assemblages observed in Henderson and Eureka creeks.

The characterization of the Lone Star system by Chapman et al. (2010a) included identification of a particular sub-signature of high Ag and Hg gold grains in Adams and Skookum gulches which sometimes included Te-bearing inclusions. The similarities between the microchemical signatures of gold from Eureka Creek and Adams and Skookum gulches (Fig 7.14) extend to the inclusion suites which both contain cervelleite (Ag_4TeS) and occasional polymetallic sulphosalts. This assemblage has also been recorded in the present study in populations of placer gold from Henderson Creek which is interpreted to be derived from orogenic sources (Allan et al., in review). On the basis of these new data sets it is proposed that gold from upper Eureka Creek also represents a gold signature derived from an orogenic hydrothermal system emplaced at shallow (epizonal) crustal levels. If this hypothesis is correct it provides further evidence for a generic evolution of orogenic hydrothermal systems, which is indicated by a transition in the microchemical signature of gold from Ag-poor to Ag- and Hg-rich.

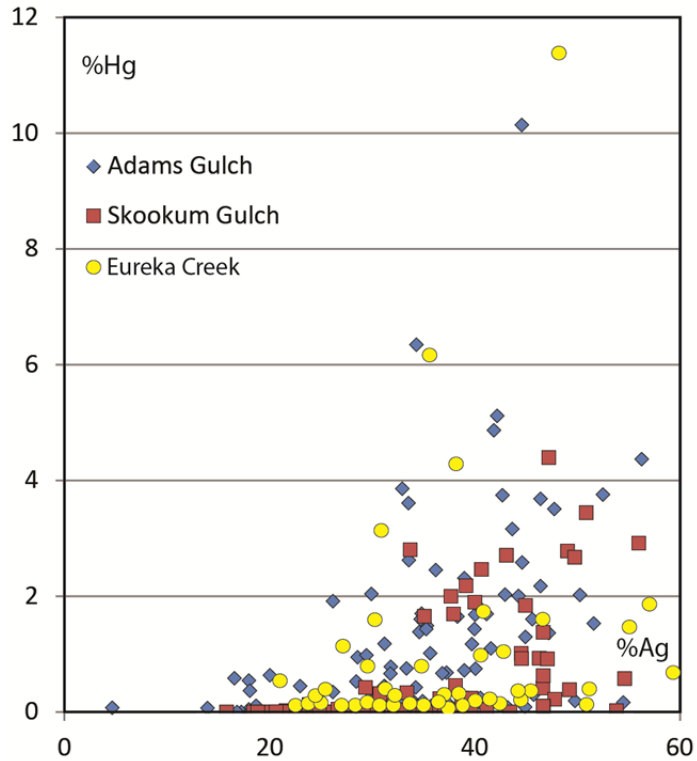


Figure 7. 4: Hg vs. Ag diagram – comparison of Klondike District samples with the Eureka Creek sample (Chapman et al., 2010a; Chapman and Mortensen, 2007).

7.2.4 Gold Signatures Derived From Intrusion-Related Gold Mineralization

The majority of the placer gold grains examined in this study are derived from orogenic gold sources. Although variability within this signature has been recorded, they are significantly

different from those found surrounding Au-Cu porphyry deposits in the Dawson Range, which all contained bismuth minerals, particularly bismuthinite (Bi_2S_3) and tetradymite (Bi_2Te_2S).

Placer gold grain signatures from creeks draining the Nucleus and Revenue deposits display a dominant Bi- and Pb-bearing inclusion assemblage, and these signatures have been directly correlated with the mineralogy of lode gold present within the Nucleus zone. The controls on the development of certain microchemical signatures within gold grains are still not well understood; however, a Bi and Pb dominant inclusion assemblage appears to be diagnostic of these intrusion-related gold systems.

7.2.5 Conclusion

Several gold types have been characterized based on alloy composition and inclusion assemblage observed in both lode and placer gold samples. A clear distinction has been identified between microchemical signatures derived from both orogenic and Au-Cu porphyry-style mineralization.

Placer gold studies in the Nucleus-Revenue deposit area in the Dawson Range have established direct genetic links between placer and lode gold. Furthermore, they have identified a gold grain signature that may be diagnostic of Au-Cu porphyry-style mineralization in the Dawson Range. The mineral inclusion assemblage comprises an undetermined Pb-Bi sulphide, bismuthinite (Bi_2S_3) and tetradymite (Bi_2Te_2S), and has been successfully compared with two other important Au-Cu porphyry systems (Casino and Sonora Gulch) that belong to a common metallogenic event in early Late Cretaceous time (Allan et al., in review).

In situ gold from orogenic systems has been characterized in both the Klondike and White Gold districts and linked to diverse geological features within this deposit class. A better understanding of compositional variability within these lode gold sources has therefore aided the interpretation of placer gold signatures in the surrounding drainages and helped to constrain the distribution of orogenic gold types regionally. Most of the gold analyzed in this study has been orogenic in nature with Te bearing and As ± Te bearing being the two main orogenic signatures present.

The controls on distribution of Te that are paragenetically related to Au are presently unknown due to the absence of lithogeochemical studies that include Te analyses. It is unclear to what extent rock composition may ultimately influence the mineralogy of contained orogenic vein systems. However, lithological controls are observed to influence As content in vein mineralogy in the White Gold District, and these controls may have a possible effect on the microchemical signature of contained gold.

Complex inclusion species associated with gold in the Henderson and Eureka creek drainages likely formed in highly variable chemical environments, which may correspond to an epizonal phase of orogenic gold mineralization formed during the later stages of exhumation of the northern Yukon-Tanana terrane (Allan et al., in review; Breitsprecher and Mortensen, 2004). Evaluation of microchemical signatures of placer gold samples in the context of this metallogenic model may have important implications for the crustal depth exposed at the present-day surface, and therefore, what style(s) of mineralization to expect in an exploration setting.

7.2.5 Future Work

A pilot study of laser-ablation ICP-MS trace element analysis of placer gold from several locations in the Klondike (Crawford, 2007) identified additional elements within gold alloys; including Cu, As, Bi, Te, Sn, and Pt. Mercury contamination of equipment was a problem encountered during this study; however, with the appropriate equipment there is potential to develop this technique to expand the range of elements that are detectable within gold alloys and significantly increase analytical output.

The dominance of Bi minerals associated with Au in the Au-Cu porphyry systems appears to be a diagnostic feature of at least some intrusion-related gold systems. However, in some areas of known orogenic mineralization rare Bi mineral inclusions are also observed. Future study could focus on the nature of these Bi mineral inclusions from these two styles of mineralization. Furthermore, a future study could investigate whether there is a systematic change in the stoichiometry of Bi-bearing inclusion species with location surrounding known intrusion-related gold sources.

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A 1. ‘Goldtracker’ Additional Features

The newly developed ‘Goldtracker’ software can be used in conjunction with the ImageJ plugin designed by Crawford (2007) in order produce shape parameters of gold grains from a digital image. Crawford (2007) used Java script to create the ‘ImageJ’ Plugin, and this language was also used in the development of the ‘Goldtracker’ to facilitate future co-development.

The three main functions of ‘Goldtracker’ are described in Chapter 3, but additional information is needed in order to use this program.

Construction of Stream Profiles

In order to reconstruct stream profiles for modelling shape evolution within a drainage, a tree network is created which reflects spatial and topographic data for all tributaries within the drainage. This is constructed from “transport path” text files which contain x,y,z coordinates of intersection points of stream and contour shape files at a 1:50,000 scale. Each transport path requires an individual text file. Each file is isolated, reordered from lowest to highest elevation and then converted from feet into meters (the contour file used in this study is in feet and therefore a conversion into meters is necessary). The program identifies common points within all the files and uses these files to construct the tree diagram. GMTD values are calculated for each segment using the x,y,z coordinates and stored for use in the distance-to-source calculation.

Stream profiles are reconstructed by manually selecting x,y coordinates of locations where the stream is crosscut by 100ft contour lines of 1:50,000 scale digital geographic data. Selection of stream segments is no longer a subjective exercise (as in Crawford’s method) but is controlled by the spacing between these intersection points. This process reduces a source of user bias and also increases the number of segments by which gradient is evaluated, increasing the definition of the stream profile. The shape file containing x,y data is spatially joined to the contour shape file; this allows the elevation (z) data to be added to the stream intersection shape file (the elevation column requires to name ‘elevation_1’). From this resulting file containing x,y,z data, individual transport paths are sequentially selected, exported in text file format and placed within an individual folder for use in the ‘Goldtracker’ program.

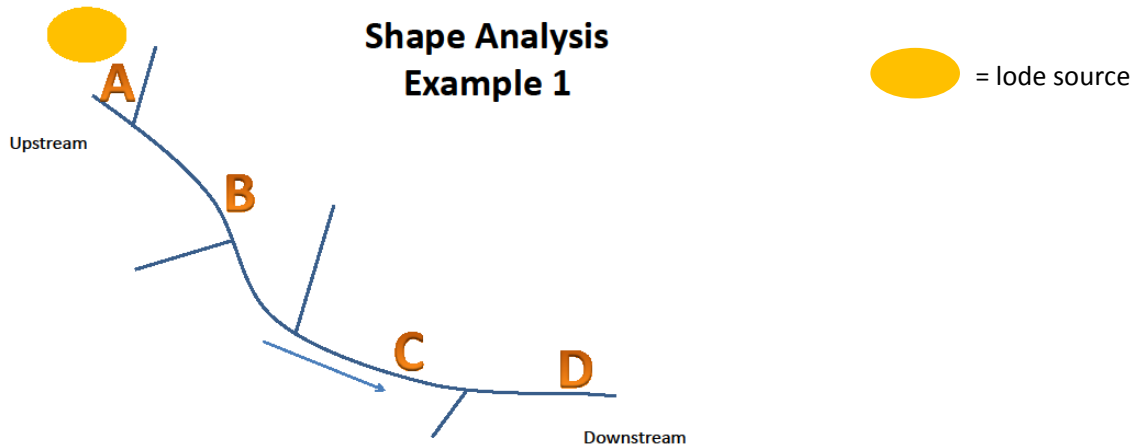
The three inputs variables (sample location, transport paths (.txt) and morphological data (.txt)) are then entered into the ‘Goldtracker’ platform and the calculations are executed in seconds. The distance-to-source calculations are output from ‘Goldtracker’ in a format (.txt) that can be directly converted into excel format (.xlxs). The excel file can subsequently be opened in ArcGIS to quickly observe the locations of predicted gold sources within a drainage.

A 2. How to Interpret HSF-%Au Diagrams

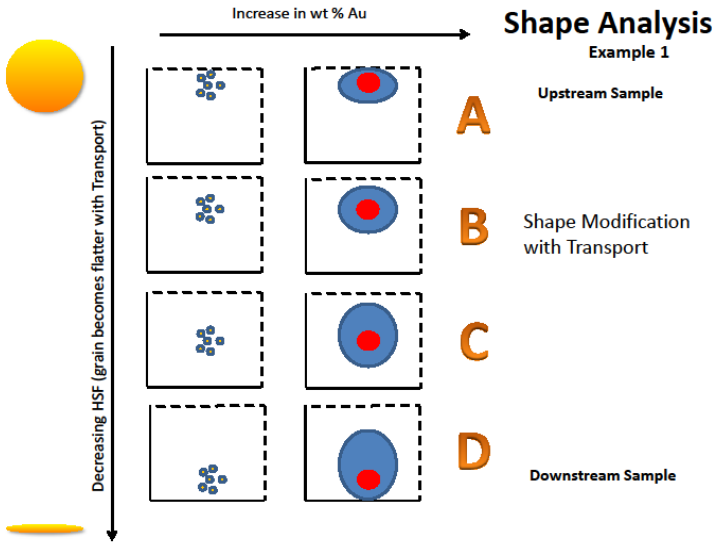
Two hypothetical examples are presented to illustrate to a user what to expect to observe from these diagrams.

Shape Analysis Example 1

In example 1 a lode gold source was present at the head of the creek. The letter A-D reflects the location of strategic sampling locations.

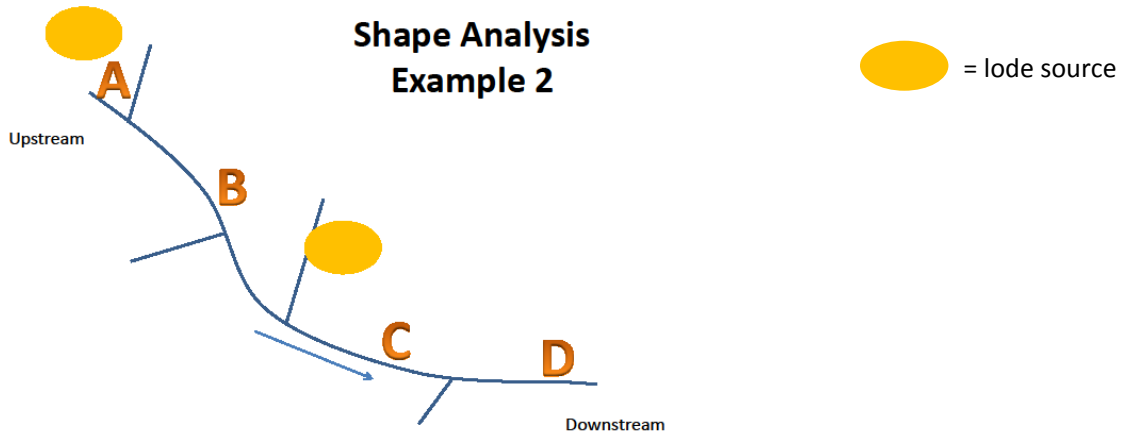


As observed in the hypothetical HSF-%Au scenario illustrated below, a population of placer gold grains systematically becomes flatter with alluvial transport, reflected in progressively lower HSF values. A single compositional population with no change in %Au is shown.

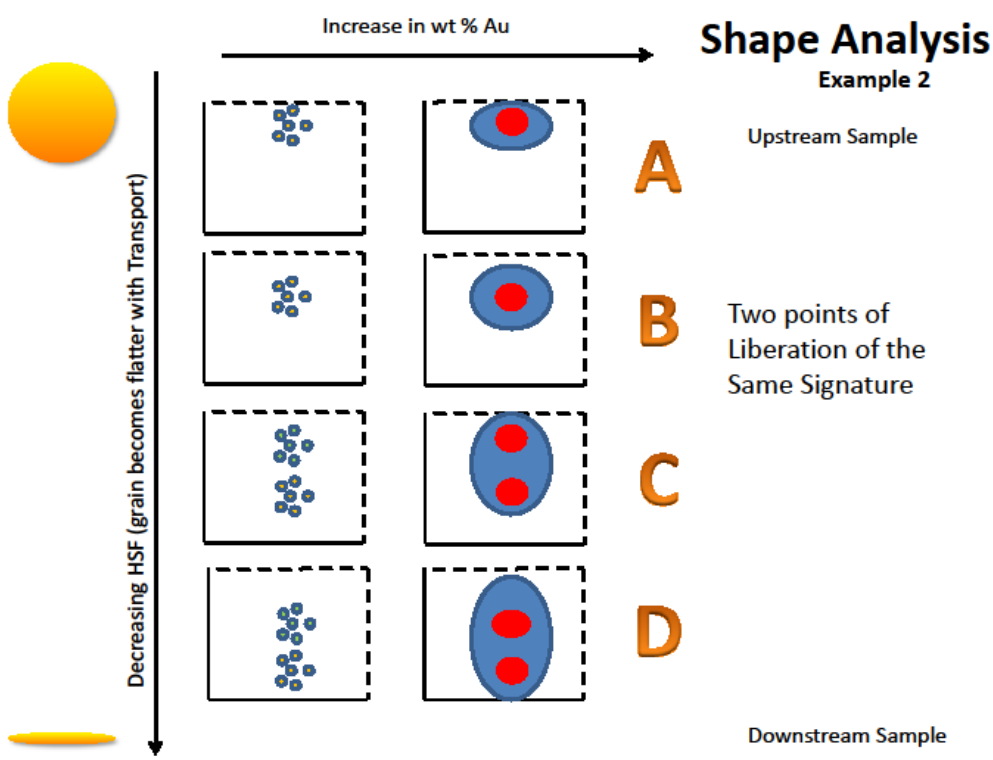


Shape Analysis Example 2

In example 2, two sources are present within a drainage, one at the head of the creek and a second mid-way along the creek.



Progressive Flattening of grain shape downstream is observed; in addition, the second gold source is identified by the appearance of a high-HSF population at point C. Both populations migrate to lower HSF values at point D.



B 1. North Henderson Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G2-1	71.6051	27.8951	0.0087	0	99.5089	0.8814841
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G2-2	75.6188	23.7698	0	0.074	99.4626	0.9020614
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G2-3	80.8562	19.1328	0.0118	0.0229	100.0237	0.8322819
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G2-4	89.7114	10.3836	0.0421	0	100.1371	0.827671
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G2-5	91.2206	9.7097	0.0589	0	100.9892	0.8527178
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G2-6	82.2288	17.7303	0.0057	0.0857	100.0505	0.934447
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G2-7	82.3021	18.1317	0.0091	0	100.4429	0.8950251
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G2-8	85.731	14.7229	0.0046	0	100.4585	0.8003243
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G2-9	99.0911	1.1414	0.1701	0	100.4026	0.7863008
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G2-10	91.3547	8.8654	0	0	100.2201	0.904004
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G3-1	75.2822	24.0011	0.0033	0.0637	99.3503	0.879498
Henderson Ck	North Henderson Ck	Shape 1	YGP-TW12-M35-G3-2	98.93	0.9856	0.2054	0	100.121	0.8361981
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-1	81.2298	18.247	0.0157	0	99.4925	0.8840383
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-2	86.6936	11.5948	0.0383	0.0913	98.3267	0.875143
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-3	80.1714	18.9363	0.0259	0.0437	99.1336	0.8294633
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-4	92.8418	7.1023	0.0695	0.0366	100.0136	0.9186698
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-5	74.3293	25.186	0.0112	0	99.5265	0.9479997
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-6	63.0875	35.0947	0.0064	0.0218	98.1886	0.8440183
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-7	80.1989	18.6674	0.0399	0	98.9062	0.8459545
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-8	80.4163	19.3232	0	0.0374	99.7395	0.9173635
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-9	90.7722	9.0874	0.0536	0	99.9132	0.9153566
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-10	80.5139	19.4695	0.0277	0	100.0111	0.93445
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-11	90.5043	10.125	0.0344	0.0107	100.6637	0.8945908
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-12	90.3395	10.5207	0.0324	0	100.8926	0.845465
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-13	78.6002	20.4911	0.0116	0	99.1029	0.90541
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-14	51.2183	47.2189	0	0	98.4372	0.9410246
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-15	91.4863	7.6349	0.0082	0	99.1294	0.9099345
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-16	87.3743	11.4374	0.0246	0	98.8363	0.9039185
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-17	75.9425	22.9655	0.0189	0	98.9269	0.8709932
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-18	75.0173	24.9431	0	0.0082	99.9604	0.8908007
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-19	56.3184	42.2339	0.0077	0.0621	98.56	0.9008757
Henderson Ck	North Henderson Ck	Shape 1	M32-G6-20	56.1102	42.5085	0.0172	0.4167	98.6359	0.8652059
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-1	78.6197	20.6487	0.0118	0	99.2802	0.899675
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-2	73.687	25.7764	0	0.0347	99.4634	0.9486586
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-3	92.0981	7.3498	0.034	0	99.4819	0.8637602
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-4	75.3276	24.4027	0	0	99.7303	0.9325252
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-5	90.5157	9.234	0.0282	0	99.7779	0.8531633

B 1. North Henderson Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-6	87.7199	10.9407	0.0479	0.0511	98.7085	0.9454968
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-7	82.0254	16.6883	0.0262	0.1988	98.7399	0.9207183
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-9	97.8331	2.1121	0.1667	0	100.1119	0.9910992
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-10	91.0267	10.3191	0.012	0	101.3578	0.938751
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-11	89.4516	10.7785	0.0384	0	100.2685	0.88183
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-12	75.8189	23.559	0.009	0	99.3869	0.9931149
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-13	62.9392	36.2387	0	0	99.1779	0.9209806
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-14	86.9747	12.705	0.0227	0.1186	99.7024	0.9203246
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-15	97.9487	1.3425	0.199	0	99.4902	0.9143771
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-16	84.2803	14.9275	0.0049	0	99.2127	0.881005
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-17	79.5642	18.589	0	0	98.1532	0.9000271
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-18	78.9604	19.8447	0.0049	0	98.81	0.9830489
Henderson Ck	North Henderson Ck	Shape 1	M32-G8-19	90.1526	10.1962	0.0316	0	100.3804	0.8816165
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-1	84.2417	14.3651	0.0479	0.0506	98.6547	0.8888557
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-2	90.5279	9.1484	0.0256	0.0086	99.7019	0.9257544
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-3	89.2144	9.8355	0.0294	0.3072	99.0793	0.9273497
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-4	86.3413	13.0604	0	0	99.4017	0.906132
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-5	83.2839	15.7024	0	0.0021	98.9863	0.9063757
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-6	92.1819	7.4823	0.0108	0	99.675	0.946566
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-7	71.4216	26.9088	0.007	0	98.3374	0.985029
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-8	79.0773	20.2074	0	0.083	99.2847	0.9023612
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-9	52.5042	45.7951	0.0017	0.3166	98.301	0.8928543
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-10	84.1398	15.0137	0	0	99.1535	0.9180747
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-11	55.8155	43.1793	0	0.1298	98.9948	0.8626172
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-12	86.8902	11.9157	0.0268	0.1315	98.8327	0.8295769
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-13	90.5414	9.593	0	0	100.1344	0.8623252
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-14	91.4046	8.9395	0.0337	0	100.3778	0.9429746
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-15	76.7521	23.2266	0.0259	0	100.0046	0.884932
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-16	59.1722	39.4522	0	0.188	98.6244	0.9077731
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-17	67.6897	30.9918	0.0055	0	98.687	0.9090844
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-18	89.203	10.1536	0.0189	0.1174	99.3755	0.855747
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-19	90.3437	8.6675	0.003	0.0664	99.0142	0.8624882
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-20	87.385	12.3477	0.0469	0.0276	99.7796	0.8824182
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-22	94.3154	5.8505	0.0743	0	100.2402	0.9223174
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-23	98.376	1.3602	0.1038	0	99.84	0.8887318
Henderson Ck	North Henderson Ck	Shape 1	M32-G7-25	83.5754	16.573	0.001	0	100.1494	0.8695718
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-1	78.0276	22.7077	0.0221	0	100.7574	0.9350063

B 1. North Henderson Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-2	67.2862	32.5334	0	0.0304	99.85	0.9237566
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-3	80.2072	21.2686	0	0.0189	101.4947	0.8968304
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-4	74.4434	24.2925	0	0.0746	98.8105	0.930838
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-5	98.6726	2.5811	0.1388	0.0309	101.4234	0.9105788
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-6	69.9881	30.0334	0.0237	0	100.0452	0.8984545
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-7	69.3817	30.2821	0.018	0.108	99.7898	0.7978216
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-8	69.7715	29.8906	0.0216	0.196	99.8797	0.9095847
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-9	56.3117	8.128	0.0097	0	64.4494	0.915727
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-10	88.6066	10.6145	0.0362	0.6192	99.8765	0.8728577
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-11	80.8923	18.5513	0	0	99.4436	0.8866188
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-12	90.2269	11.0472	0.0315	0	101.3056	0.9671069
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-13	90.9049	9.7439	0.0299	0	100.6787	0.9352508
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-14	78.526	21.1757	0.0102	0.044	99.7559	0.8285529
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-15	83.2725	17.3157	0.0243	0.0085	100.621	0.8174245
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-16	73.8728	26.2263	0	0.0041	100.1032	0.9387306
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-18	73.8545	26.4101	0	0.0144	100.279	0.9455269
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-19	91.3926	9.6445	0.0039	0.1579	101.1989	0.8899174
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-20	70.9413	28.7192	0	0	99.6605	0.910814
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-21	73.8913	26.2735	0.0015	0	100.1663	0.8711861
Henderson Ck	North Henderson Ck	Shape 1	M33-G8-23	91.6492	8.8147	0.0467	0	100.5106	0.9389456
Henderson Ck	North Henderson Ck	Shape 2	YGP-TW12-M35-G4-2	86.1612	13.3995	0.0289	0	99.5896	0.8196202
Henderson Ck	North Henderson Ck	Shape 2	YGP-TW12-M35-G4-3	76.4372	23.2857	0.0127	0.0103	99.7459	0.8248806
Henderson Ck	North Henderson Ck	Shape 2	YGP-TW12-M35-G4-4	90.1806	10.1979	0.0845	0.0299	100.4929	0.7009272
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-1	70.1178	29.5696	0.0016	0	99.689	0.8372769
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-2	75.0789	24.3618	0	0	99.4407	0.8572487
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-3	78.2689	21.5247	0.0123	0.0355	99.8414	0.8269927
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-4	84.7667	15.9567	0	0.017	100.7404	0.8633532
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-5	78.5222	21.647	0.0322	0.2717	100.4731	0.9042568
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-6	85.33	15.0588	0.04	0	100.4288	0.8719253
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-7	75.4445	24.2426	0.0083	0	99.6954	0.8722718
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-8	67.6877	32.0404	0	0.2128	99.9409	0.912746
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-9	64.3229	34.8124	0	0.1929	99.3282	0.8968464
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-10	86.3852	14.4219	0.0443	0.0085	100.8599	0.9348236
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-11	86.4731	13.9449	0	0.0107	100.4287	0.8406355
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-12	74.6915	25.063	0	0	99.7545	0.9784593
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-13	85.6282	14.0704	0	0	99.6986	0.8689993
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-14	67.4749	31.9282	0	0.0528	99.4559	0.8968026

B 1. North Henderson Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-15	81.479	18.5178	0.0331	0	100.0299	0.9573144
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-16	82.2448	17.8473	0.0016	0	100.0937	0.8267143
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-17	85.5723	14.5441	0.0382	0	100.1546	0.8830311
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-18	57.1878	42.5491	0	0.2612	99.9981	0.9140115
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-19	90.72	9.6599	0.0199	0	100.3998	0.8672423
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-20	90.2177	10.6601	0.0373	0	100.9151	0.9053852
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-21	85.5293	15.0038	0.0106	0	100.5437	0.8814829
Henderson Ck	North Henderson Ck	Shape 2	M34-G3-22	81.5459	17.5644	0.0186	0	99.1289	0.9416692
Henderson Ck	North Henderson Ck	Shape 2	M34-G4-1	90.6472	9.4794	0.0264	0	100.153	0.8367023
Henderson Ck	North Henderson Ck	Shape 2	M34-G4-2	85.0195	14.9949	0.0311	0.0128	100.0583	0.855489
Henderson Ck	North Henderson Ck	Shape 2	M34-G4-3	75.6627	24.2063	0.0031	0.1163	99.9884	0.8246607
Henderson Ck	North Henderson Ck	Shape 2	M34-G4-4	84.6471	16.0775	0.0299	0.0913	100.8458	0.9127807
Henderson Ck	North Henderson Ck	Shape 2	M34-G4-5	73.0542	26.672	0.0406	0	99.7668	0.9238429
Henderson Ck	North Henderson Ck	Shape 2	M34-G4-6	88.573	10.995	0.0211	0.3272	99.9163	0.9222047
Henderson Ck	North Henderson Ck	Shape 2	M34-G4-7	91.3241	9.7488	0.0198	0	101.0927	0.9526005
Henderson Ck	North Henderson Ck	Shape 2	M34-G4-8	82.9983	17.3533	0.0432	0	100.3948	0.8445302
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-1	87.6238	11.4963	0.036	0.0967	99.2528	0.7752652
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-2	74.6291	25.6667	0.012	0	100.3078	0.931507
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-3	89.4658	10.667	0.0305	0.2156	100.3789	0.9366915
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-4	77.4534	21.9577	0	0.0898	99.5009	0.9290517
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-5	72.9188	26.0495	0.0074	0	98.9757	0.8939164
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-6	78.8346	19.975	0.0314	0	98.841	0.8913978
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-7	91.2578	8.4497	0.0396	0	99.7471	0.9205353
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-8	79.68	20.2146	0.0262	0.1658	100.0866	0.9138305
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-9	75.2078	25.8344	0.0237	0	101.0659	0.9519366
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-10	92.0607	8.9218	0.0436	0	101.0261	0.90165
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-11	91.1158	9.827	0.0513	0	100.9941	0.9314822
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-12	80.9197	19.9283	0.0145	0	100.8625	0.8971897
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-13	79.5639	19.2267	0.0191	0	98.8097	0.8987801
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-14	85.7746	15.0942	0.0478	0	100.9166	0.9072242
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-15	90.2635	9.8364	0	0	100.0999	0.7994523
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-16	77.2558	21.9673	0.0211	0.265	99.5092	0.9250107
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-17	93.7602	6.9617	0.0257	0	100.7476	0.9277774
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-18	92.6244	8.318	0.0248	0	100.9672	0.8801108
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-19	85.6299	15.1674	0.0311	0	100.8284	0.9181063
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-20	80.3789	19.7989	0.0392	0.1786	100.3956	0.9163387
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-21	90.6288	9.5047	0.0402	0	100.1737	0.9280778

B 1. North Henderson Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Henderson Ck	North Henderson Ck	Shape 2	M33-G9-23	89.8313	10.4279	0.0516	0	100.3108	0.9035961
Henderson Ck	North Henderson Ck	Shape 3	YGP-TW12-M35-G1-1	79.159	20.6433	0.0036	0	99.8059	0.86888
Henderson Ck	North Henderson Ck	Shape 3	YGP-TW12-M35-G1-2	74.372	25.6256	0.0188	0	100.0164	0.8365787
Henderson Ck	North Henderson Ck	Shape 3	YGP-TW12-M35-G1-3	90.5154	10.0167	0.0409	0.0427	100.6157	0.811553
Henderson Ck	North Henderson Ck	Shape 3	YGP-TW12-M35-G1-4	92.1911	8.1525	0.0118	0	100.3554	0.8334553
Henderson Ck	North Henderson Ck	Shape 3	YGP-TW12-M35-G1-5	88.2907	11.765	0.0166	0.0892	100.1615	0.8926994
Henderson Ck	North Henderson Ck	Shape 3	YGP-TW12-M35-G1-6	82.1245	16.9005	0.0064	0	99.0314	0.8576511
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-1	47.5586	51.1403	0	0.1184	98.8173	0.9097187
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-2	91.2163	9.5076	0.0147	0	100.7386	0.968906
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-3	81.4167	19.2764	0	0.0105	100.7036	0.9328639
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-4	73.7814	25.6801	0	0.1652	99.6267	0.9708529
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-5	88.2622	12.132	0.0512	0	100.4454	0.9219429
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-6	85.4288	15.1113	0.004	0	100.5441	0.9322276
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-7	92.9083	8.0846	0.0078	0.1085	101.1092	0.8891302
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-8	94.2207	7.3217	0.0534	0.1109	101.7067	0.892468
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-9	93.724	8.0876	0.0469	0	101.8585	0.8601554
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-10	88.4733	13.1891	0.0079	0	101.6703	0.9386761
Henderson Ck	North Henderson Ck	Shape 3	M34-G1-11	84.0563	16.4056	0.0058	0.0064	100.4741	0.9309263
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-1	86.6587	12.8567	0.0094	0	99.5248	0.8429246
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-2	81.9999	18.4854	0	0	100.4853	0.9206897
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-3	88.8426	11.1735	0.0319	0.0581	100.1061	0.9319113
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-4	87.4118	12.2893	0	0	99.7011	0.8751325
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-5	82.2351	15.8188	0	1.1551	99.209	0.8990438
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-6	86.6372	13.2867	0	1.3359	101.2598	0.8935012
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-7	88.5658	12.6125	0.0116	0.0665	101.2564	0.9061461
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-8	69.916	28.7027	0.0199	0	98.6386	0.9183921
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-9	86.7763	14.2452	0	0	101.0215	0.898316
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-10	100.909	0.8215	0.1647	0	101.8952	0.8782608
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-11	78.5526	21.4162	0	0.1778	100.1466	0.7936842
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-12	78.6045	21.172	0	0.0419	99.8184	0.9108606
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-13	100.9173	1.4661	0.1375	0.1259	102.6468	0.8756961
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-14	73.5359	26.2518	0.0125	0	99.8002	0.8897088
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-15	91.4526	10.2833	0.047	0	101.7829	0.8729717
Henderson Ck	North Henderson Ck	Shape 3	M34-G2-16	82.5836	17.0739	0.0104	0	99.6679	0.8699169
Henderson Ck	North Henderson Ck	Shape 4	YGP-TW12-M35-G5-1	83.0412	17.1131	0.0078	0.065	100.2271	0.8396594
Henderson Ck	North Henderson Ck	Shape 4	YGP-TW12-M35-G5-2	98.8918	1.3241	0.1109	0	100.3268	0.8571737
Henderson Ck	North Henderson Ck	Shape 4	YGP-TW12-M35-G5-3	88.1196	11.0923	0.0222	0	99.2341	0.8667063

B 1. North Henderson Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Henderson Ck	North Henderson Ck	Shape 4	YGP-TW12-M35-G5-4	81.7835	18.0218	0.018	0	99.8233	0.8426994
Henderson Ck	North Henderson Ck	Shape 4	YGP-TW12-M35-G5-5	92.7005	7.7089	0.0765	0	100.4859	0.9324866
Henderson Ck	North Henderson Ck	Shape 4	YGP-TW12-M35-G5-6	99.694	0.7434	0.1335	0	100.5709	0.79512
Henderson Ck	North Henderson Ck	Shape 4	YGP-TW12-M35-G5-7	72.6069	25.7522	0	0.8517	99.2108	0.8499728
Henderson Ck	North Henderson Ck	Shape 4	YGP-TW12-M35-G5-8	90.2631	9.6892	0.03	0	99.9823	0.8797297
Henderson Ck	North Henderson Ck	Shape 4	YGP-TW12-M35-G5-9	85.5584	13.4357	0.0011	0.2051	99.2003	0.8824544
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-1	73.3474	25.4184	0	0.1178	98.8836	0.931571
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-2	89.6309	9.49	0.026	0	99.1469	0.9347438
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-3	92.1331	8.3765	0.0287	0	100.5383	0.9013602
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-4	69.6336	29.4647	0.0031	0	99.1014	0.9301609
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-5	71.4728	27.7836	0	0.0164	99.2728	0.9721415
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-6	86.8103	11.9726	0	0.0859	98.8688	0.853647
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-7	91.1986	9.3798	0.0519	0.052	100.6823	0.899362
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-8	70.8731	28.9045	0.0109	0	99.7885	0.935932
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-9	85.7415	14.5366	0.0194	0.0192	100.3167	0.9251717
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-10	71.9049	27.3075	0	0	99.2124	0.8956079
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-11	87.5035	13.4506	0.0137	0	100.9678	0.7789012
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-12	75.6579	21.7032	0.0189	1.3591	98.7391	0.8397078
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-13	76.1322	22.8583	0	0.0541	99.0446	0.9993864
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-14	92.5647	7.2977	0.1054	0	99.9678	0.9221449
Henderson Ck	North Henderson Ck	Shape 4	M34-G7-15	73.7897	24.386	0.0155	0	98.1912	0.9167228
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-1	87.0501	12.3564	0.0017	0.6234	100.0316	0.8248967
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-2	78.4933	20.7546	0.0019	0.4938	99.7436	0.8474946
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-3	77.3001	22.127	0	0	99.4271	0.9116332
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-4	74.157	25.1471	0	0.1675	99.4716	0.8716926
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-5	91.8997	8.9743	0.0054	0	100.8794	0.9111449
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-6	87.5954	12.0256	0	0.0107	99.6317	0.8376422
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-7	70.6993	28.8889	0	0	99.5882	0.8169026
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-8	88.4263	11.4756	0.0172	0.0968	100.0159	0.8508445
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-9	78.2325	21.7331	0	0.1673	100.1329	0.8990427
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-10	96.8961	3.7451	0.2478	0.0571	100.9461	0.8482143
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-11	91.9836	7.7816	0	0	99.7652	0.9053064
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-12	73.5516	25.9566	0.0065	0	99.5147	0.8792926
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-13	99.6126	1.8939	0.0994	0	101.6059	0.9120473
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-14	89.0706	11.7139	0.0416	0.0172	100.8433	0.7752835
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-15	80.002	20.4859	0	0	100.4879	0.8912619
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-16	70.4989	28.6978	0.0335	0	99.2302	0.8491501

B 1. North Henderson Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-17	92.1217	8.0416	0.0244	0	100.1877	0.8878278
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-18	83.8671	15.694	0	0.085	99.6461	0.9695009
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-19	89.8622	10.7069	0.059	0.028	100.6561	0.9371743
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-20	86.2192	13.1817	0.0353	0.0877	99.5239	0.8984397
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-21	91.3222	8.4027	0.0396	0	99.7645	0.9099965
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-22	85.042	14.6739	0.0355	0	99.7514	0.9053934
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-23	87.9431	12.372	0.0274	0	100.3425	0.8695497
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-24	89.5263	10.5849	0	0	100.1112	0.9176876
Henderson Ck	North Henderson Ck	Shape 4	M34-G5-25	91.3632	9.1425	0.0268	0.0606	100.5931	0.9556971
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-1	75.4836	23.2242	0.0219	0.1165	98.8462	0.8391035
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-2	65.2571	33.7937	0	0.4615	99.5123	0.7856258
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-3	85.3014	15.0442	0.0197	0	100.3653	0.8976615
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-4	82.4415	17.726	0	0	100.1675	0.9005397
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-5	91.8475	8.9983	0.0735	0	100.9193	0.797265
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-6	79.7205	18.897	0	0	98.6175	0.925248
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-7	79.9004	19.668	0.029	0.0589	99.6563	0.9219943
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-8	84.2744	15.8797	0.0368	0.0446	100.2355	0.8587557
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-9	90.6458	10.8928	0	0.0453	101.5839	0.92166
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-10	82.9697	17.1152	0	0	100.0849	0.8579176
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-11	72.0641	27.158	0.0338	0	99.2559	0.8592734
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-12	86.7316	12.5283	0.002	0.1586	99.4205	0.8663507
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-13	84.5502	15.1692	0.0081	0	99.7275	0.9689285
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-14	95.5723	4.988	0.0808	0.011	100.6521	0.9814223
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-15	80.4311	19.7681	0.0329	0	100.2321	0.8963772
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-16	94.4179	6.9326	0.0712	0	101.4217	0.796254
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-17	89.643	11.1909	0	0	100.8339	0.8832394
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-18	73.9806	26.866	0.0048	0	100.8514	0.8698446
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-19	78.7038	20.9196	0.0159	0.3286	99.9679	0.8205184
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-20	82.5307	17.4274	0	0	99.9581	0.8264677
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-21	90.9559	9.2436	0.0323	0.0195	100.2513	0.9647997
Henderson Ck	North Henderson Ck	Shape 4	M34-G6-22	81.7462	19.2231	0.0102	0	100.9795	0.8825831

B 2. Lower Dominion Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Klondike	Lower Dominion	1Aii	YGP-TW12-M29-G8-1	78.8978	20.6404	0.0147	0	99.5529	0.8573195
Klondike	Lower Dominion	1Aii	YGP-TW12-M29-G8-2	81.2742	18.2659	0.0332	0	99.5733	0.8186631
Klondike	Lower Dominion	1Aii	M30-G2-1	81.1562	17.4751	0.0244	0.0209	98.6557	0.8775097
Klondike	Lower Dominion	1Aii	M30-G2-2	88.1359	12.1453	0.0583	0	100.3395	0.8902204
Klondike	Lower Dominion	1Aii	M30-G2-3	89.8105	9.775	0.0974	0	99.6829	0.8172306
Klondike	Lower Dominion	1Aii	M30-G2-4	76.9851	22.224	0.0078	0	99.2169	0.834741
Klondike	Lower Dominion	1Aii	M30-G2-5	74.3945	25.0801	0	0.0552	99.4746	0.8375234
Klondike	Lower Dominion	1Aii	M30-G2-6	86.046	14.5772	0.0059	0	100.6291	0.8874844
Klondike	Lower Dominion	1Aii	M30-G2-7	75.9166	22.0507	0	0.0639	97.9673	0.8650624
Klondike	Lower Dominion	1Aii	M30-G2-8	91.4586	8.5744	0.0538	0.06	100.0868	0.902208
Klondike	Lower Dominion	1Aii	M30-G2-9	80.1593	19.4809	0.0092	0	99.6494	0.8840051
Klondike	Lower Dominion	1Aii	M30-G2-10	76.9754	21.7474	0.0056	0.0145	98.7284	0.8370338
Klondike	Lower Dominion	1Aii	M30-G2-12	79.4202	19.6952	0.0019	0	99.1173	0.8671138
Klondike	Lower Dominion	1Aii	M30-G2-13	78.1476	20.7405	0	0	98.8881	0.8554264
Klondike	Lower Dominion	1Aii	M30-G2-14	73.9487	24.7392	0	0.1187	98.6879	0.8699232
Klondike	Lower Dominion	1Aii	M30-G2-15	78.0096	20.9717	0	0	98.9813	0.9111516
Klondike	Lower Dominion	1Aii	M30-G2-16	83.5944	15.3423	0.0148	0	98.9515	0.837707
Klondike	Lower Dominion	1Aii	M30-G2-17	75.228	23.7233	0.026	0.0205	98.9773	0.8150574
Klondike	Lower Dominion	1Aii	M30-G2-18	85.0023	14.6497	0	0	99.652	0.8538449
Klondike	Lower Dominion	1Aii	M30-G2-19	79.6269	19.8559	0.006	0	99.4888	0.8333751
Klondike	Lower Dominion	1Aii	M30-G2-20	78.365	21.7001	0	0	100.0651	0.8175022
Klondike	Lower Dominion	1Aii	M30-G3-1	72.1139	27.1291	0	0.1099	99.243	0.9070297
Klondike	Lower Dominion	1Aii	M30-G3-2	77.1587	21.412	0.0148	0.0041	98.5855	0.7862002
Klondike	Lower Dominion	1Aii	M30-G3-3	86.5514	12.5555	0.0112	0.0233	99.1181	0.8339553
Klondike	Lower Dominion	1Aii	M30-G3-4	78.0596	20.6805	0.0182	0	98.7583	0.8314271
Klondike	Lower Dominion	1Aii	M30-G3-5	85.5697	13.534	0.0434	0	99.1471	0.8226325
Klondike	Lower Dominion	1Aii	M30-G3-6	78.8748	20.6517	0	0	99.5265	0.8551568
Klondike	Lower Dominion	1Aii	M30-G3-7	83.2897	15.6366	0.0417	0.0357	98.968	0.9628673
Klondike	Lower Dominion	1Aii	M30-G3-8	78.2542	21.2215	0	0	99.4757	0.9000921
Klondike	Lower Dominion	1Aii	M30-G3-9	77.4147	21.9902	0	0.0475	99.4049	0.8179608
Klondike	Lower Dominion	1Aii	M30-G3-10	82.7929	16.5743	0	0.0147	99.3672	0.8640574
Klondike	Lower Dominion	1Aii	M30-G3-11	81.406	18.5178	0.0095	0	99.9333	0.8260765
Klondike	Lower Dominion	1Aii	M30-G3-12	76.022	21.8854	0.0227	0	97.9301	0.8355693
Klondike	Lower Dominion	1Aii	M30-G3-13	77.8012	20.2947	0	0	98.0959	0.8465822
Klondike	Lower Dominion	1Aii	M30-G3-14	91.3501	8.0958	0.0966	0.0451	99.5425	0.8359441
Klondike	Lower Dominion	1Aii	M30-G3-15	75.1792	23.4265	0.0254	0	98.6311	0.8864503
Klondike	Lower Dominion	1Aii	M30-G3-16	75.2668	23.6991	0	0	98.9659	0.8567427

B 2. Lower Dominion Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Klondike	Lower Dominion	1Aii	M30-G3-17	77.8271	21.3686	0	0	99.1957	0.8144672
Klondike	Lower Dominion	1Aii	M30-G3-18	74.4946	24.9078	0	0.0962	99.4024	0.797827
Klondike	Lower Dominion	1Aii	M30-G1-1	77.3464	21.514	0.0195	0	98.8799	0.864322
Klondike	Lower Dominion	1Aii	M30-G1-2	76.5984	22.7138	0.0044	0.0824	99.3166	0.8171622
Klondike	Lower Dominion	1Aii	M30-G1-3	82.6307	16.6409	0.0302	0	99.3018	0.8188765
Klondike	Lower Dominion	1Aii	M30-G1-4	75.7501	23.9813	0.0352	0.0123	99.7666	0.8527126
Klondike	Lower Dominion	1Aii	M30-G1-5	75.3421	23.6587	0.0009	0	99.0017	0.8628338
Klondike	Lower Dominion	1Aii	M30-G1-6	74.559	24.8567	0	0.0614	99.4157	0.8082081
Klondike	Lower Dominion	1Aii	M30-G1-7	81.4658	17.1065	0.0164	0.0544	98.5887	0.8772801
Klondike	Lower Dominion	1Aii	M30-G1-8	79.7967	20.0888	0.0007	0.0042	99.8862	0.8745463
Klondike	Lower Dominion	1Aii	M30-G1-9	80.9337	17.2567	0.0228	0	98.2132	0.7748323
Klondike	Lower Dominion	1Aii	M30-G1-10	78.7367	20.6474	0	0	99.3841	0.7928613
Klondike	Lower Dominion	1Aii	M30-G1-11	69.8248	29.3211	0.0218	0	99.1677	0.8375975
Klondike	Lower Dominion	1Aii	M30-G1-12	86.0207	13.5665	0.0004	0	99.5876	0.8529147
Klondike	Lower Dominion	1Aii	M30-G1-13	76.8054	21.9687	0	0.0206	98.7741	0.8029126
Klondike	Lower Dominion	1Aii	M30-G1-14	83.7739	16.1765	0.013	0	99.9634	0.8686689
Klondike	Lower Dominion	1Aii	M30-G1-15	80.5903	19.0616	0.0312	0.0104	99.6831	0.7705372
Klondike	Lower Dominion	1Aii	M30-G1-16	79.7625	20.2109	0.0104	0	99.9838	0.8839893
Klondike	Lower Dominion	1Aii	M30-G1-17	69.3317	29.9244	0.0152	0	99.2713	0.9159477
Klondike	Lower Dominion	1Aii	M30-G1-18	82.7288	16.6099	0.0189	0.0524	99.3576	0.8441696
Klondike	Lower Dominion	1Aii	M30-G1-19	78.9227	19.2429	0.0034	0	98.169	0.850005
Klondike	Lower Dominion	1Aii	M30-G1-20	72.7263	26.9192	0.0125	0	99.658	0.9076924
Klondike	Lower Dominion	1Ai	YGP-TW12-M29-G9-1	78.5345	20.2078	0.0145	0	98.7568	0.9166607
Klondike	Lower Dominion	1Ai	YGP-TW12-M29-G9-2	73.548	26.4316	0	0.1305	100.1101	0.813725
Klondike	Lower Dominion	1Ai	M29-G9-3	75.7377	23.4351	0	0	99.1728	0.8287168
Klondike	Lower Dominion	1Ai	M29-G9-4	75.65	23.9889	0.0106	0	99.6495	0.8557853
Klondike	Lower Dominion	1Ai	M29-G9-5	79.9904	21.1223	0.0133	0	101.126	0.8354746
Klondike	Lower Dominion	1Ai	M29-G9-6	79.7511	20.1233	0.0334	0.0519	99.9078	0.8607543
Klondike	Lower Dominion	1Ai	M29-G9-7	78.3871	21.4996	0.0262	0	99.9129	0.820483
Klondike	Lower Dominion	1Ai	M29-G9-8	77.4924	22.2873	0.0394	0	99.8191	0.8020252
Klondike	Lower Dominion	1Ai	M29-G9-9	79.3562	20.5946	0.0318	0	99.9826	0.8911348
Klondike	Lower Dominion	1Ai	M29-G9-10	80.9357	19.41	0.0238	0	100.3695	0.8445958
Klondike	Lower Dominion	1Ai	M29-G9-11	89.4935	10.6185	0.0259	0	100.1379	0.8287183
Klondike	Lower Dominion	1Ai	M29-G9-12	76.1548	24.1684	0	0	100.3232	0.8547381
Klondike	Lower Dominion	1Ai	M29-G9-13	80.7071	18.1339	0	0	98.841	0.8005179
Klondike	Lower Dominion	1Ai	M30-G7-1	75.457	24.8804	0.0014	0	100.3388	0.8614849
Klondike	Lower Dominion	1Ai	M30-G7-2	86.4579	13.4631	0.0275	0.0296	99.9485	0.8483854

B 2. Lower Dominion Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Klondike	Lower Dominion	1Ai	M30-G7-3	78.3294	20.7191	0	0	99.0485	0.8599829
Klondike	Lower Dominion	1Ai	M30-G7-4	80.5504	20.2731	0.0179	0.0104	100.8414	0.8750933
Klondike	Lower Dominion	1Ai	M30-G7-5	80.2044	19.5313	0	0	99.7357	0.8836802
Klondike	Lower Dominion	1Ai	M30-G7-6	75.8568	23.0522	0.0293	0	98.9383	0.8813233
Klondike	Lower Dominion	1Ai	M30-G7-7	76.879	22.7069	0.0255	0.0206	99.6114	0.7884755
Klondike	Lower Dominion	1Ai	M30-G7-8	77.9873	22.0791	0.0434	0	100.1098	0.825767
Klondike	Lower Dominion	1Ai	M30-G7-9	78.4172	20.9808	0.0386	0	99.4366	0.8812406
Klondike	Lower Dominion	1Ai	M30-G7-10	77.8734	21.1571	0	0.0497	99.0305	0.7911872
Klondike	Lower Dominion	1Ai	M30-G7-11	77.6053	21.7622	0.0387	0	99.4062	0.8496937
Klondike	Lower Dominion	1Ai	M30-G7-12	79.7354	20.1294	0.002	0	99.8668	0.8310734
Klondike	Lower Dominion	1Ai	M30-G7-13	70.0548	29.198	0	0	99.2528	0.8843706
Klondike	Lower Dominion	1Ai	M30-G7-14	76.7881	22.6044	0.0156	0	99.4081	0.8480739
Klondike	Lower Dominion	1Ai	M30-G7-15	73.6288	25.4755	0.007	0.0368	99.1113	0.8398267
Klondike	Lower Dominion	1Ai	M30-G7-16	83.8838	15.3204	0.0123	0	99.2165	0.8856382
Klondike	Lower Dominion	1Ai	M30-G7-17	78.7505	21.6125	0.035	0	100.398	0.8846332
Klondike	Lower Dominion	1Ai	M30-G7-18	79.1282	19.6264	0	0	98.7546	0.912587
Klondike	Lower Dominion	1Ai	M30-G7-19	78.9896	19.6391	0	0	98.6287	0.856142
Klondike	Lower Dominion	1Ai	M30-G7-20	77.1568	21.9374	0	0.0227	99.0942	0.7723805
Klondike	Lower Dominion	1Ai	M30-G8-1	93.5498	3.6957	1.8701	0	99.1156	0.8467624
Klondike	Lower Dominion	1Ai	M30-G8-2	80.2016	19.5072	0.0301	0.0104	99.7389	0.8691516
Klondike	Lower Dominion	1Ai	M30-G8-3	74.5585	24.0703	0	0	98.6288	0.938491
Klondike	Lower Dominion	1Ai	M30-G8-4	76.4006	22.3928	0	0	98.7934	0.8733696
Klondike	Lower Dominion	1Ai	M30-G8-5	77.7751	21.1643	0.0208	0.0041	98.9602	0.9206481
Klondike	Lower Dominion	1Ai	M30-G8-6	78.3456	21.337	0.0386	0.124	99.7212	0.8355861
Klondike	Lower Dominion	1Ai	M30-G8-7	56.1809	42.2952	0.0083	0	98.4844	0.9764629
Klondike	Lower Dominion	1Ai	M30-G8-8	74.0955	24.0923	0.0092	0	98.197	0.8977437
Klondike	Lower Dominion	1Ai	M30-G8-9	80.4363	19.3765	0.0041	0	99.8169	0.9186111
Klondike	Lower Dominion	1Ai	M30-G8-10	78.9711	20.125	0.0311	0	99.1272	0.9016939
Klondike	Lower Dominion	1Ai	M30-G8-11	76.8824	21.3268	0.0153	0	98.2245	0.8606989
Klondike	Lower Dominion	1Ai	M30-G8-12	79.8669	19.6439	0.027	0	99.5378	0.853701
Klondike	Lower Dominion	1Ai	M30-G8-13	78.1919	21.1577	0.0091	0	99.3587	0.8954532
Klondike	Lower Dominion	1Ai	M30-G8-14	79.3169	20.8297	0.0486	0	100.1952	0.8488785
Klondike	Lower Dominion	1Ai	M30-G8-15	76.2654	22.9891	0.0124	0	99.2669	0.9166578
Klondike	Lower Dominion	1Ai	M30-G8-16	77.1925	22.1785	0.0364	0	99.4074	0.923519
Klondike	Lower Dominion	1Ai	M30-G8-17	82.8013	15.944	0.0201	0	98.7654	0.8717272
Klondike	Lower Dominion	1Ai	M30-G8-18	86.5755	13.03	0.0523	0.1715	99.6578	0.909761
Klondike	Lower Dominion	1Ai	M30-G8-19	78.8127	20.8985	0.0295	0	99.7407	0.917288

B 2. Lower Dominion Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Klondike	Lower Dominion	1Ai	M30-G8-20	85.2989	15.2732	0.0272	0	100.5993	0.8890354
Klondike	Lower Dominion	1Ai	M30-G6-1	76.7352	22.3001	0.0228	0.0309	99.0581	0.9241251
Klondike	Lower Dominion	1Ai	M30-G6-2	78.4561	20.6028	0.0192	0	99.0781	0.926312
Klondike	Lower Dominion	1Ai	M30-G6-3	87.3955	10.9997	0.017	1.0139	98.4122	0.8502428
Klondike	Lower Dominion	1Ai	M30-G6-4	78.3131	20.8902	0.0199	0	99.2232	0.8397197
Klondike	Lower Dominion	1Ai	M30-G6-5	79.6262	19.2845	0	0	98.9107	0.904105
Klondike	Lower Dominion	1Ai	M30-G6-6	76.4455	23.2976	0	0	99.7431	0.8984411
Klondike	Lower Dominion	1Ai	M30-G6-7	74.7561	24.0102	0.0218	0	98.7881	0.8670668
Klondike	Lower Dominion	1Ai	M30-G6-8	82.1308	17.3565	0	0	99.4873	0.857891
Klondike	Lower Dominion	1Ai	M30-G6-9	78.8225	20.9542	0	0	99.7767	0.9173414
Klondike	Lower Dominion	1Ai	M30-G6-10	77.2135	21.8817	0.0185	0	99.1137	0.8373267
Klondike	Lower Dominion	1Ai	M30-G6-11	77.5366	21.4441	0.0224	0	99.0031	0.8549897
Klondike	Lower Dominion	1Ai	M30-G6-12	72.591	25.9493	0.0156	0.0122	98.5559	0.9071363
Klondike	Lower Dominion	1Ai	M30-G6-13	79.9047	18.3196	0.0095	0	98.2338	0.8729364
Klondike	Lower Dominion	1Ai	M30-G6-14	79.3407	19.2136	0	0	98.5543	0.8429372
Klondike	Lower Dominion	1Ai	M30-G6-15	76.0378	23.086	0.0218	0.0494	99.1456	0.8748782
Klondike	Lower Dominion	1Ai	M30-G6-16	86.2507	12.5692	0.0069	0.0169	98.8268	0.8343839
Klondike	Lower Dominion	1Ai	M30-G6-17	78.3105	20.6617	0.0525	0	99.0247	0.8353081
Klondike	Lower Dominion	1Ai	M30-G6-18	77.9732	21.493	0.0526	0.031	99.5188	0.8673839
Klondike	Lower Dominion	1Ai	M30-G6-19	77.7393	20.1838	0.0128	0.1451	97.9359	0.8831581
Klondike	Lower Dominion	1Ai	M30-G6-20	78.442	19.8306	0.0171	0.0913	98.2897	0.8638619
Klondike	Lower Dominion	1Ai	M32-G2-1	80.9326	19.2033	0	0	100.1359	0.8811345
Klondike	Lower Dominion	1Ai	M32-G2-2	81.2578	17.6451	0.0123	0.0314	98.9152	0.927432
Klondike	Lower Dominion	1Ai	M32-G2-3	76.0644	22.9937	0.0001	0	99.0582	0.8647055
Klondike	Lower Dominion	1Ai	M32-G2-4	76.5735	22.8488	0.0255	0.0206	99.4478	0.849678
Klondike	Lower Dominion	1Ai	M32-G2-5	80.371	19.1815	0.0155	0.0603	99.568	0.8389443
Klondike	Lower Dominion	1Ai	M32-G2-6	75.9379	22.5884	0	0.0618	98.5263	0.8476102
Klondike	Lower Dominion	1Ai	M32-G2-7	78.4385	20.7471	0.0093	0	99.1949	0.85879
Klondike	Lower Dominion	1Ai	M32-G2-8	83.609	15.891	0.0053	0.0063	99.5053	0.9017364
Klondike	Lower Dominion	1Ai	M32-G2-9	78.2582	21.5104	0.0111	0.0393	99.7797	0.8621933
Klondike	Lower Dominion	1Ai	M32-G2-10	87.6743	10.4116	0.003	0.0171	98.0889	0.8915271
Klondike	Lower Dominion	1Ai	M32-G2-11	85.2523	14.0602	0.029	0	99.3415	0.8731586
Klondike	Lower Dominion	1Ai	M32-G2-12	78.4372	20.4591	0.0153	0	98.9116	0.8417739
Klondike	Lower Dominion	1Ai	M32-G2-13	84.2411	14.7369	0.0054	0	98.9834	0.8925098
Klondike	Lower Dominion	1Ai	M32-G2-14	93.9038	5.3446	0.0819	0.0389	99.3303	0.865632
Klondike	Lower Dominion	1Ai	M32-G2-15	81.414	18.5414	0.0309	0.0396	99.9863	0.8364898
Klondike	Lower Dominion	1Ai	M32-G2-16	74.6998	24.2469	0	0	98.9467	0.8708453

B 2. Lower Dominion Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Klondike	Lower Dominion	1Ai	M32-G2-17	77.6464	21.8271	0.0135	0.0867	99.487	0.8631328
Klondike	Lower Dominion	1Ai	M32-G2-18	86.8028	13.34	0	0.0106	100.1428	0.8952326
Klondike	Lower Dominion	1Ai	M32-G2-19	78.6344	20.9798	0	0	99.6142	0.8679034
Klondike	Lower Dominion	1Ai	M32-G2-20	77.613	20.1455	0.0237	0.0871	97.7822	0.7861829
Klondike	Lower Dominion	1Ai	M32-G3-1	78.7843	21.655	0.0015	0	100.4408	0.9589298
Klondike	Lower Dominion	1Ai	M32-G3-2	80.3275	18.0242	0.0048	0	98.3565	0.8673526
Klondike	Lower Dominion	1Ai	M32-G3-3	80.9085	18.4544	0.0223	0	99.3852	0.8404403
Klondike	Lower Dominion	1Ai	M32-G3-4	81.3465	17.9219	0.009	0.0063	99.2774	0.8679737
Klondike	Lower Dominion	1Ai	M32-G3-5	78.5163	21.5276	0.01	0.0703	100.0539	0.8288625
Klondike	Lower Dominion	1Ai	M32-G3-6	77.6415	21.4214	0.0268	0	99.0897	0.8170777
Klondike	Lower Dominion	1Ai	M32-G3-7	73.9329	24.4141	0	0	98.347	0.8147225
Klondike	Lower Dominion	1Ai	M32-G3-8	77.0906	21.7064	0.0082	0.0145	98.8052	0.8210984
Klondike	Lower Dominion	1Ai	M32-G3-9	79.9386	19.5452	0	0	99.4838	0.8673471
Klondike	Lower Dominion	1Ai	M32-G3-10	85.9288	13.5088	0.0306	0.1289	99.4682	0.9375409
Klondike	Lower Dominion	1Ai	M32-G3-11	78.1568	21.5052	0.0228	0	99.6848	0.8525532
Klondike	Lower Dominion	1Ai	M32-G3-12	79.8259	19.5895	0.0102	0	99.4256	0.9036253
Klondike	Lower Dominion	1Ai	M32-G3-13	77.3596	21.7444	0.0506	0	99.1546	0.8908339
Klondike	Lower Dominion	1Ai	M32-G3-14	76.0148	23.034	0.0238	0	99.0726	0.8621086
Klondike	Lower Dominion	1Ai	M32-G3-15	73.6542	24.538	0.0193	0	98.2115	0.9115493
Klondike	Lower Dominion	1Ai	M32-G3-16	79.8251	19.269	0.0212	0	99.1153	0.9235133
Klondike	Lower Dominion	1Ai	M32-G3-17	76.4996	22.9118	0.0224	0	99.4338	0.8387566
Klondike	Lower Dominion	1Ai	M32-G3-18	73.895	24.6587	0	0	98.5537	0.9274415
Klondike	Lower Dominion	1Ai	M32-G3-19	73.0619	25.9541	0.0053	0	99.0213	0.8856401
Klondike	Lower Dominion	1Ai	M32-G3-20	83.5642	15.5598	0.0241	0	99.1481	0.8878066
Klondike	Lower Dominion Ck	S.D	M30-G4-1	77.95	21.4655	0.0034	0.0806	99.4189	0.7847682
Klondike	Lower Dominion Ck	S.D	M30-G4-2	76.1788	22.8346	0.0104	0	99.0238	0.8538015
Klondike	Lower Dominion Ck	S.D	M30-G4-3	79.9134	19.3546	0	0	99.268	0.8373925
Klondike	Lower Dominion Ck	S.D	M30-G4-4	78.1372	20.5706	0.0142	0.1036	98.722	0.8582187
Klondike	Lower Dominion Ck	S.D	M30-G5-1	80.53	19.5117	0.0323	0.0395	100.074	0.9700107
Klondike	Lower Dominion Ck	S.D	M30-G5-2	80.3431	19.2571	0.0434	0.0083	99.6436	0.7966016
Klondike	Lower Dominion Ck	S.D	M30-G5-3	76.5936	22.7943	0.0025	0	99.3904	0.8608572
Klondike	Lower Dominion Ck	S.D	M30-G5-4	74.2992	24.9508	0.0081	0.1596	99.2581	0.7853483
Klondike	Lower Dominion Ck	S.D	M30-G5-5	79.5612	18.7386	0.0237	0	98.3235	0.902663
Klondike	Lower Dominion Ck	S.D	M30-G5-6	79.3907	20.4726	0.0246	0.058	99.8879	0.8767249
Klondike	Lower Dominion Ck	S.D	M30-G5-7	86.0248	13.4138	0	0	99.4386	0.80281
Klondike	Lower Dominion Ck	S.D	M30-G5-8	77.2627	23.0176	0	0.1235	100.2803	0.779582
Klondike	Lower Dominion Ck	S.D	M30-G5-9	76.2676	22.9527	0.0065	0	99.2268	0.8623007

B 2. Lower Dominion Creek Shape Data

Area	River	Loc_ID	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Hofmann
Klondike	Lower Dominion Ck	S.D	M30-G5-10	71.1747	27.6112	0.0216	0	98.8075	0.8147001
Klondike	Lower Dominion Ck	S.D	M30-G5-11	82.1123	17.5605	0.0108	0	99.6836	0.8928867
Klondike	Lower Dominion Ck	S.D	M30-G5-12	71.1145	27.4894	0.0177	0.0345	98.6216	0.8902765

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM4G31	71.3416	28.8995
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM4G32	66.0165	33.7309
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM4G33	67.1657	33.5184
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM4G41	73.8299	25.4864
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM4G42 - Dark	1.4427	33.9181
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM4G43	69.7819	30.6039
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G11	68.0213	32.0363
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G12	71.9768	28.0171
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G13	75.7805	25.0132
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G14	46.4591	53.4444
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G15	58.5581	40.9493
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G16	70.3104	28.7157
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G17	67.3395	32.5389
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G18	74.0212	26.6602
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G19	69.2439	30.7935
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G110	72.0495	27.9278
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G111	47.1224	52.6112
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G112	61.0824	39.5416
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G113	79.0265	21.1805
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G114	70.1189	30.3812
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2010TWM5G115	62.9905	37.0905
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7G53	74.34109	25.73019
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7 G54	65.44875	33.97858
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7G55	71.68709	27.98879
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7G62	71.48143	28.98377
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7G63	75.33021	24.25762
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7G64	69.87533	29.22257
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7G65	68.68054	31.14288
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7G67	67.55431	31.13293
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7G68	70.27686	29.35192
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7G69	67.05486	32.904
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM7G610	64.36169	35.55064
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12 G11	74.31545	25.06419
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12 G12	56.78046	43.34372
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G13	75.76608	23.57097
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G14	66.42519	33.28196
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G15	67.42496	32.10943

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2010TWM4G31	0	0	100.2411	rutile	Rutile	0.9456741
YGP2010TWM4G32	0	0.0825	99.8299	pyrite	Pyrite	0.9558086
YGP2010TWM4G33	0	0.0537	100.7378			0.901587
YGP2010TWM4G41	0.0317	0	99.348			0.9736975
YGP2010TWM4G42 - Dark	0	0.0101	35.3709			0.9828285
YGP2010TWM4G43	0.0092	0	100.395			0.9456741
YGP2010TWM5G11	0.0183	0	100.0759	FeAsS	FeAsS	0.9548673
YGP2010TWM5G12	0.0016	0.2181	100.2136			0.9479374
YGP2010TWM5G13	0.0184	0.0085	100.8206			0.9626871
YGP2010TWM5G14	0	0.4773	100.3808			0.945814
YGP2010TWM5G15	0.0009	0.0363	99.5446			0.9184448
YGP2010TWM5G16	0.0045	0.1881	99.2187	Pyrrhotite	Pyrrhotite	0.96103
YGP2010TWM5G17	0.0479	0.1325	100.0588			0.9000049
YGP2010TWM5G18	0	0	100.6814			0.9120986
YGP2010TWM5G19	0.0126	0	100.05			0.9628923
YGP2010TWM5G110	0.0229	0	100.0002			0.8931445
YGP2010TWM5G111	0.0219	0.35	100.1055			0.9156402
YGP2010TWM5G112	0	0	100.624	rutile	Rutile	0.9214717
YGP2010TWM5G113	0.0056	0	100.2126			0.8967183
YGP2010TWM5G114	0.0031	0	100.5032			0.9402027
YGP2010TWM5G115	0.0106	0	100.0916			0.9628923
YGP2011TWM7G53	0.0067	0	100.078	AgTeS	AgTeS	0.9303002
YGP2011TWM7 G54	0.0068	0	99.43412			0.8814781
YGP2011TWM7G55	0.0139	0	99.68978			0.873941
YGP2011TWM7G62	0.0168	0	100.482			0.8823281
YGP2011TWM7G63	0.0165	0	99.60433	FeAsS	FeAsS	0.9594152
YGP2011TWM7G64	0.016	0	99.1139			0.906763
YGP2011TWM7G65	0.0083	0.0152	99.84692			0.8646472
YGP2011TWM7G67	0.0129	0	98.70015			0.9115032
YGP2011TWM7G68	0	0	99.62877			0.9332869
YGP2011TWM7G69	0.003	0	99.96185	FeS2	Pyrite	0.8957358
YGP2011TWM7G610	0.0097	0	99.92203			0.8711664
YGP2011TWM12 G11	0.0288	0	99.40845			0.9253295
YGP2011TWM12 G12	0.0091	0	100.1333	Hem or mag?	Magnetite	0.9383005
YGP2011TWM12G13	0.0274	0	99.36445			0.9066644
YGP2011TWM12G14	0.0143	0	99.72145			0.9824404
YGP2011TWM12G15	0	0	99.53439	AgS tr Cu	AgS	0.9909401

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G16	68.9834	30.2454
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G17	52.16392	48.49485
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G18	67.31714	32.64058
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G19	70.80649	28.49161
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G110	65.07258	35.01571
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G111	66.46439	33.32205
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G112	67.65038	31.94908
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G113	61.47541	38.15249
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G114	70.26741	29.42362
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G115	66.41539	33.30201
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G116	66.84666	32.55038
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G117	77.54997	21.61674
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G118 - Light	62.26933	38.0623
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G118 - Dark	68.59134	30.987
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G119	70.61046	29.22319
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G120	70.06158	28.96262
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12 G21	57.98605	42.42173
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12 G22	67.66999	31.96912
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G23	66.68983	33.04144
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G24	68.44432	31.73863
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G25	79.45147	19.31176
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G26	69.22844	30.71642
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G27	76.66783	22.48863
Henderson	Henderson Ck	Upper Henderson	596492	7034684	7	YGP2011TWM12G28	68.22868	31.30769
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G11	67.972	32.1592
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G12	67.5896	32.2515
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G13	65.2752	34.2958
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G14	74.2127	25.3241
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G15	65.1624	35.004
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G16	72.2553	27.1318
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G17	65.098	35.5786
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G18	71.3754	29.4086
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G19	71.0434	29.2922
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G110	63.4147	37.1159
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G111	63.5466	36.7511
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G112	61.8922	37.2474
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G113	71.0733	28.9752

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM12G16	0.0154	0	99.2442			0.8587891
YGP2011TWM12G17	0.0218	0	100.6806			0.8778572
YGP2011TWM12G18	0.0023	0	99.96001			0.9127834
YGP2011TWM12G19	0.0117	0	99.3098			0.9606775
YGP2011TWM12G110	0	0	100.0883			0.9595607
YGP2011TWM12G111	0.0104	0	99.79684			0.9149876
YGP2011TWM12G112	0.0107	0	99.61016			0.9684996
YGP2011TWM12G113	0.0143	0	99.6422			0.9333129
YGP2011TWM12G114	0.024	0	99.71503			0.9580645
YGP2011TWM12G115	0.015	0	99.73239			0.7700861
YGP2011TWM12G116	0.008	0	99.40504			0.9325321
YGP2011TWM12G117	0.0275	0	99.19421			0.9584148
YGP2011TWM12G118 - Light	0.0081	0.0169	100.3566	Fes2	Pyrite	0.9312432
YGP2011TWM12G118 - Dark	0.0078	0	99.58614			0.9312432
YGP2011TWM12G119	0.0213	0	99.85495			0.9872981
YGP2011TWM12G120	0.0147	0.2015	99.2404			0.937018
YGP2011TWM12 G21	0.0046	0	100.4124			0.9690264
YGP2011TWM12 G22	0.0227	0	99.66181			0.883084
YGP2011TWM12G23	0.0104	0	99.74168			0.9737217
YGP2011TWM12G24	0.004	0	100.1869			0.9507972
YGP2011TWM12G25	0.0225	0	98.78573			0.9122531
YGP2011TWM12G26	0.0037	0	99.94855			0.921548
YGP2011TWM12G27	0.018	0	99.17445			0.9854996
YGP2011TWM12G28	0.0036	0.0063	99.54628			0.9227137
YGP2010TWM3G11	0	0.1202	100.2514			0.9216161
YGP2010TWM3G12	0.0105	0	99.8516			0.8978783
YGP2010TWM3G13	0.0149	0	99.5859			0.9360483
YGP2010TWM3G14	0.0164	0	99.5532			0.8997108
YGP2010TWM3G15	0.0116	0.0575	100.2355	Monazite	Monazite	0.7313589
YGP2010TWM3G16	0	0.1302	99.5173	Pyrite	Pyrite	0.8810755
YGP2010TWM3G17	0	0	100.6766			0.9048348
YGP2010TWM3G18	0	0.0376	100.8216			0.910717
YGP2010TWM3G19	0.0089	0	100.3445			0.8659852
YGP2010TWM3G110	0	0	100.5306			0.7863475
YGP2010TWM3G111	0.006	0	100.3037			0.8637616
YGP2010TWM3G112	0.0287	0	99.1683			0.8549447
YGP2010TWM3G113	0	0	100.0485			0.8601227

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G114	87.1818	14.0389
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G115	65.067	34.8926
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G116	70.8528	28.4281
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM3G21	73.4912	27.2766
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G21	73.6165	26.1689
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G22	74.0076	26.4391
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G23	82.1559	17.6907
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G24	76.3265	24.436
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G25	75.5711	24.3823
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G26	72.2842	27.5924
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G31	75.3272	24.1701
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G32	75.6952	24.8416
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G33	64.8727	35.4828
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G34	64.4043	35.6722
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G35	70.6776	29.3119
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2010TWM1G36	80.9354	19.3122
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12 G51	75.46223	24.1422
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12 G52	85.61665	13.20856
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G53	73.14906	25.7156
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G54	73.3941	25.85591
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G55	67.55237	32.76083
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G56	62.13211	37.73159
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G57	72.45316	27.04848
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G58	85.21479	13.35888
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G59	70.189	29.40358
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G510	75.76608	23.59101
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G511	77.54997	22.15791
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G512	70.8751	28.22102
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G513	60.76969	39.08451
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G514	71.4828	27.83018
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G515	69.74792	29.17308
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G516	86.87125	11.61511
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G517	80.70607	18.54009
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G518	67.32694	32.17958
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G519	66.19976	33.71289
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM12G520	63.82778	36.17822
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10 G31	67.42496	33.0214

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2010TWM3G114	0.0137	0.0393	101.2737			0.8440701
YGP2010TWM3G115	0	0.1069	100.0665			0.9266317
YGP2010TWM3G116	0.0008	0	99.2817			0.910717
YGP2010TWM3G21	0	0.0631	100.8309			0.7401142
YGP2010TWM1G21	0.0242	0.0885	99.8981			0.91354
YGP2010TWM1G22	0.028	0	100.4747			0.9181434
YGP2010TWM1G23	0.0575	0	99.9041	Ag>CuTeS/CuFeS2	AgTeS	0.9213291
YGP2010TWM1G24	0.0241	0.0254	100.812			0.9137965
YGP2010TWM1G25	0.0289	0.0636	100.0459	BaSO4	Barite	0.9630298
YGP2010TWM1G26	0	0.0923	99.9689	AgTe/AgTeS/Cu/AgSTe	AgTeS	0.8994375
YGP2010TWM1G31	0	0.0212	99.5185			0.889937
YGP2010TWM1G32	0.0089	0.1482	100.6939			0.9020075
YGP2010TWM1G33	0.0013	0	100.3568			0.8339441
YGP2010TWM1G34	0.0038	0.0862	100.1665			0.865927
YGP2010TWM1G35	0.0284	0.0125	100.0304			0.9307871
YGP2010TWM1G36	0.0155	0.099	100.3621			0.8928146
YGP2011TWM12 G51	0.0242	0	99.62863			0.9299125
YGP2011TWM12 G52	0.0452	0	98.87041			0.8653817
YGP2011TWM12G53	0.0131	0	98.87777			0.8542312
YGP2011TWM12G54	0.0113	0	99.26131			0.9500817
YGP2011TWM12G55	0.0223	0	100.3355			0.9642159
YGP2011TWM12G56	0.0026	0.1415	100.0078			0.8604622
YGP2011TWM12G57	0.0189	0	99.52054			0.8123776
YGP2011TWM12G58	0.0241	0	98.59778			0.8617616
YGP2011TWM12G59	0	0	99.59258			0.8967991
YGP2011TWM12G510	0	0	99.35709			0.9319405
YGP2011TWM12G511	0.0063	0	99.71419			0.8606016
YGP2011TWM12G512	0.007	0.0539	99.15702			0.9375676
YGP2011TWM12G513	0	0	99.8542			0.9302432
YGP2011TWM12G514	0.0056	0	99.31858			0.8851528
YGP2011TWM12G515	0.0264	0	98.9474			0.9284912
YGP2011TWM12G516	0.0331	0	98.51946			0.9381696
YGP2011TWM12G517	0.0014	0	99.24756	FeS2	Pyrite	0.9961268
YGP2011TWM12G518	0.0081	0	99.51463	FeAsS	FeAsS	0.9310921
YGP2011TWM12G519	0.0104	0	99.92306			0.9444596
YGP2011TWM12G520	0.0017	0	100.0077	FeS2	Pyrite	0.8936181
YGP2011TWM10 G31	0.0103	0	100.4567			0.9007842

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10 G32	65.15099	35.21614
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G33	67.0917	33.17172
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G34	70.15959	30.526
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G35	72.65898	27.82015
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G36	76.47179	23.44068
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G37	67.76801	31.97915
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G38	60.77949	39.8662
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G39	73.78616	26.23673
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G310	67.61118	32.71073
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G311	81.27456	18.34968
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G312	72.70799	27.57963
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G313	72.7178	27.50948
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G314	72.52177	27.8402
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G315	73.26669	26.70775
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G316	67.41515	32.74079
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G317	64.88634	35.57692
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G318	68.56193	31.36782
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G319	74.12922	25.79578
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G320	78.89278	20.81501
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G41	72.72759	26.96831
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G42 - Light	65.15099	35.15602
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G42 - Dark	59.15243	41.50975
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G43	81.72543	18.05905
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G44	73.43331	26.62757
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G45	64.80794	35.40656
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G46	72.65898	27.07855
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G47	70.30662	29.88462
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G48	67.01329	32.81095
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G49	73.67834	26.43716
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G410	85.97931	13.52925
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G411	80.82369	18.69041
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G412	65.1608	35.46669
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G413	66.33698	34.224
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G414	91.65442	7.897075
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G415	87.7338	11.80553
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G416	71.51221	28.79226
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G417	82.87222	17.10699

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM10 G32	0.004	0.0022	100.3733			0.9041749
YGP2011TWM10G33	0.0182	0	100.2816			0.9274514
YGP2011TWM10G34	0.0237	0	100.7093			0.950762
YGP2011TWM10G35	0.011	0	100.4901			0.9852828
YGP2011TWM10G36	0.0244	0	99.93687			0.9454071
YGP2011TWM10G37	0.0321	0	99.77924			0.9168027
YGP2011TWM10G38	0.0043	0	100.65			0.8375483
YGP2011TWM10G39	0.0183	0	100.0412			0.8682895
YGP2011TWM10G310	0.0244	0	100.3463			0.9132048
YGP2011TWM10G311	0.0182	0	99.64244	AgTeS	AgTeS	0.8762524
YGP2011TWM10G312	0	0	100.2876			0.9081786
YGP2011TWM10G313	0.0109	0	100.2382			0.925295
YGP2011TWM10G314	0.008	0	100.37			0.9038172
YGP2011TWM10G315	0.0087	0	99.98313			0.8588594
YGP2011TWM10G316	0.0198	0	100.1757			0.9836561
YGP2011TWM10G317	0.0135	0	100.4768			0.8639774
YGP2011TWM10G318	0.0139	0	99.94365			0.9160663
YGP2011TWM10G319	0.0015	0	99.9265			0.8490802
YGP2011TWM10G320	0.0265	0	99.73428			0.8378943
YGP2011TWM10G41	0.0141	0	99.71001			0.8769947
YGP2011TWM10G42 - Light	0.0116	0	100.3186			0.9326811
YGP2011TWM10G42 - Dark	0	0.0714	100.7336	ZnS	Sphalerite	0.9326811
YGP2011TWM10G43	0.0153	0	99.79978			0.9284466
YGP2011TWM10G44	0.0162	0	100.0771	PbS	Galena	0.9295045
YGP2011TWM10G45	0.0168	0	100.2313			0.9444244
YGP2011TWM10G46	0.0155	0	99.75304	FeS2	Pyrite	0.8839515
YGP2011TWM10G47	0.0102	0	100.2014	AgTeS	AgTeS	0.9603466
YGP2011TWM10G48	0.0152	0.0401	99.87953			0.8920585
YGP2011TWM10G49	0.0113	0	100.1268	Ag2S	AgS	0.9054313
YGP2011TWM10G410	0.0435	0	99.55206			0.9378533
YGP2011TWM10G411	0.026	0.0085	99.54861			0.8342784
YGP2011TWM10G412	0.022	0	100.6495			0.9283224
YGP2011TWM10G413	0.0096	0	100.5706			0.8342784
YGP2011TWM10G414	0.0852	0	99.63669			0.945816
YGP2011TWM10G415	0.0283	0	99.56762			0.9489368
YGP2011TWM10G416	0.0049	0	100.3094			0.9087561
YGP2011TWM10G417	0.031	0	100.0102			0.9494088

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G418	73.00204	27.40927
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G419	74.93295	25.01409
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G420	79.81413	19.53223
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G51	68.61094	31.70856
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G52	63.20048	37.12026
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G53	70.59085	29.36349
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G54	73.05105	27.04848
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G55	76.47179	23.59101
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G56	69.44408	30.87676
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G57	60.36783	40.09669
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G58	73.3353	26.75786
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G59	68.71876	31.57828
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G510	55.8199	45.05742
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G511	66.20956	33.9935
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G512	68.57173	31.61836
Henderson	Henderson Ck	Camp	593259	7035095	7	YGP2011TWM10G513	75.21719	24.76354
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G51	63.7271	35.7479
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G52	68.3559	31.2749
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G53	65.8825	33.5266
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G54	58.6235	41.9256
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G55	87.8868	12.5233
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G56	71.2559	29.2422
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G57	69.3904	29.5905
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G58	73.5402	27.1068
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G59	76.1058	24.5565
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G510	67.8285	31.2391
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM3G511	71.5853	27.9585
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G11	69.5969	30.2597
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G12	68.8291	31.165
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G13	72.463	27.8953
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G14	94.0936	5.7763
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G15	67.2587	33.418
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G16	69.8627	30.3269
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G17	73.6662	26.4784
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G18	74.2202	25.6387
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G19	62.0966	37.2808
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G110	69.9698	29.8148

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM10G418	0.0049	0	100.4162			0.9444244
YGP2011TWM10G419	0.0169	0.073	100.0369			0.8500007
YGP2011TWM10G420	0.0236	0	99.36996			0.9161179
YGP2011TWM10G51	0.0082	0	100.3277			0.9722009
YGP2011TWM10G52	0	0	100.3207			0.9539735
YGP2011TWM10G53	0.0196	0	99.97394			0.9189633
YGP2011TWM10G54	0.0048	0	100.1043			0.9127496
YGP2011TWM10G55	0.0201	0	100.0829			0.9782657
YGP2011TWM10G56	0.0259	0	100.3467			0.8304906
YGP2011TWM10G57	0	0	100.4645			0.8828439
YGP2011TWM10G58	0.0103	0	100.1035			0.8077689
YGP2011TWM10G59	0.0128	0	100.3098			0.948609
YGP2011TWM10G510	0.0105	0	100.8878			0.9184894
YGP2011TWM10G511	0.0207	0	100.2238	FeAsS	FeAsS	0.8668034
YGP2011TWM10G512	0.0095	0	100.1996			0.8625853
YGP2011TWM10G513	0.0095	0	99.99023			0.805552
YGP2010TWM3G51	0.0116	0.0656	99.5522			0.8474456
YGP2010TWM3G52	0.0242	0.0831	99.7381			0.9609234
YGP2010TWM3G53	0.0127	0	99.4218			0.8485944
YGP2010TWM3G54	0	0.0161	100.5652			0.8640358
YGP2010TWM3G55	0.0301	0	100.4402	CuAgTeS/PbAgTe>Se tr Cu/AgTe, AuAgTe, AgTeS	AgTeS	0.8740221
YGP2010TWM3G56	0.0184	0	100.5165			0.9054128
YGP2010TWM3G57	0.029	0	99.0099			0.8332617
YGP2010TWM3G58	0	0	100.647	Pyrrhotite	Pyrrhotite	0.8658827
YGP2010TWM3G59	0.0145	0	100.6768	Pyrite	Pyrite	0.8378882
YGP2010TWM3G510	0	0	99.0676			0.8473541
YGP2010TWM3G511	0.0182	0	99.562			0.9064952
YGP2010TWM4G11	0.0198	0	99.8764			0.8536779
YGP2010TWM4G12	0.0005	0.1371	100.1317			0.9119106
YGP2010TWM4G13	0.0162	0	100.3745	pytite	Pyrite	0.8386294
YGP2010TWM4G14	0.0662	0	99.9361	calcite	Calcite	0.8438595
YGP2010TWM4G15	0.0073	0.0454	100.7294			0.9202892
YGP2010TWM4G16	0	0.1416	100.3312			0.8065663
YGP2010TWM4G17	0.0141	0	100.1587			0.8755132
YGP2010TWM4G18	0.015	0.0718	99.9457			0.8973654
YGP2010TWM4G19	0	0.0082	99.3856			0.8536629
YGP2010TWM4G110	0	0	99.7846			0.8182975

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM4G21	74.6239	25.3682
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G41	72	28.6446
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G42	73.1008	27.2294
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G43	70.8086	28.7643
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G44	71.1077	28.7728
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G45	73.8209	25.6658
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G46	76.3117	24.3151
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G47	62.3145	37.3944
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G48	73.2768	27.3426
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G49	68.3729	31.308
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G410	66.6599	32.5336
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G411	77.3001	21.4183
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G412	62.2921	37.9298
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G413	74.4445	26.3187
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G414	82.1066	17.7168
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G415	66.8056	33.5266
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G416	82.3123	18.4811
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G61	79.0143	21.7664
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G62	73.6639	26.7274
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G63	62.2302	37.5336
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G64	67.453	32.1836
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G65	72.2201	27.4875
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G66	79.134	21.5149
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G67	71.502	28.1433
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G68	71.0527	29.5154
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G69	68.9565	31.2693
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G610	74.4755	26.2284
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G611	70.3336	29.7131
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G612	65.5013	34.7526
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G613	76.6862	23.3706
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G614	75.5775	24.3923
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G615	71.2695	29.6814
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G616	73.5312	26.948
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G618	77.471	23.1098
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G51	62.6575	36.8664
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G52	78.1896	22.117
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G53	56.4785	43.8896

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2010TWM4G21	0	0	99.9921	AgTe	AgTe	0.8238934
YGP2010TWM5G41	0.029	0.0461	100.7197			0.9163011
YGP2010TWM5G42	0.0016	0	100.3318			0.9005973
YGP2010TWM5G43	0	0.1213	99.6942	CuFes2	Chalcopyrit	0.927872
YGP2010TWM5G44	0.0044	0	99.8849			0.9076887
YGP2010TWM5G45	0.0058	0.0127	99.5052			0.907813
YGP2010TWM5G46	0.0249	0	100.6517			0.8840789
YGP2010TWM5G47	0.0072	0.0082	99.7243			0.8604903
YGP2010TWM5G48	0	0	100.6194	Ag>CuS/Ag>Cu(S>Te, Se,Sb)/PbS/Ag>Cu(S>Te>Se)		0.9244242
YGP2010TWM5G49	0.0135	0.0042	99.6986			0.9694423
YGP2010TWM5G410	0.0074	0.1778	99.3787	AgS tr Cu, Se	AgS	0.9070008
YGP2010TWM5G411	0.0135	0.0513	98.7832			0.8759498
YGP2010TWM5G412	0.0233	0	100.2452			0.9028377
YGP2010TWM5G413	0.0052	0.0169	100.7853			0.8899445
YGP2010TWM5G414	0	0	99.8234			0.8296118
YGP2010TWM5G415	0.0281	0	100.3603			0.87373
YGP2010TWM5G416	0.0418	0	100.8352			0.912046
YGP2010TWM5G61	0.0226	0	100.8033			0.9520268
YGP2010TWM5G62	0.0218	0	100.4131			0.8665588
YGP2010TWM5G63	0.0099	0	99.7737			0.9445252
YGP2010TWM5G64	0.0216	0	99.6582	Pyrite	Pyrite	0.9629391
YGP2010TWM5G65	0	0	99.7076			0.8959754
YGP2010TWM5G66	0.014	0.0855	100.7484			0.911625
YGP2010TWM5G67	0	0.1467	99.792	FeS2	Pyrite	0.9361208
YGP2010TWM5G68	0	0.0752	100.6433	CuFeS2	Chalcopyrit	0.9452126
YGP2010TWM5G69	0	0.054	100.2798			0.9171635
YGP2010TWM5G610	0.0061	0	100.71			0.9290875
YGP2010TWM5G611	0.018	0	100.0647	FeS2	Pyrite	0.71861
YGP2010TWM5G612	0.0082	0.0576	100.3197			0.866302
YGP2010TWM5G613	0	0	100.0568	PbS	Galena	0.9264524
YGP2010TWM5G614	0	0.1356	100.1054			0.9790562
YGP2010TWM5G615	0	0	100.9509	FeS2	Pyrite	0.9290875
YGP2010TWM5G616	0.0006	0.0211	100.5009			0.71861
YGP2010TWM5G618	0.0295	0.1021	100.7124	Cu>AgSbS/AgTeS	AgTeS	0.866302
YGP2010TWM5G51	0	0.2245	99.7484			0.938489
YGP2010TWM5G52	0.0126	0.1109	100.4301			0.9023875
YGP2010TWM5G53	0.022	0.036	100.4261			0.9356653

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G54	70.6537	28.8955
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G55	73.7876	25.993
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G56	83.3419	16.5479
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G57	84.2753	16.9021
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G58	68.7349	32.1666
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G59	67.5797	32.4215
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G510	63.1002	35.8871
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G511	75.2463	24.7569
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G512	72.8481	26.4436
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G513	64.5221	35.4434
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G514	67.8929	31.9309
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G515	68.6177	31.5747
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G516	69.9349	29.0747
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G517	72.7763	27.4161
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G518	65.6891	33.9193
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G519	72.8148	27.1524
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G520	63.6833	36.4817
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2010TWM5G521	72.7857	26.4223
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10 G61	67.94444	32.49025
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10 G62	71.5024	28.23104
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G63	69.09122	31.19745
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G64	63.44552	36.46885
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G65	72.757	27.36918
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G66	78.47131	21.19583
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G67	78.15766	22.09778
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G68	74.47228	25.81582
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G69	62.79861	37.78169
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G610	66.18996	33.8532
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G611	70.57125	29.57395
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G612	68.21888	31.74865
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G613	78.73596	21.03548
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G614	67.51316	32.99133
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G615	64.41587	35.8876
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G616	72.28653	28.0707
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G617	81.85285	18.55011
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G618	75.84449	24.03196
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G619	60.32862	40.237

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2010TWM5G54	0.0076	0.0544	99.6112			0.9857293
YGP2010TWM5G55	0	0	99.7806			0.8286033
YGP2010TWM5G56	0.0005	0	99.8903			0.8790649
YGP2010TWM5G57	0.0163	0	101.1937	Brannerite (U Ti oxide)	UTiO	0.8883412
YGP2010TWM5G58	0.0063	0.0622	100.97			0.9052202
YGP2010TWM5G59	0.0298	0	100.031			0.9368426
YGP2010TWM5G510	0	0.1065	99.0938			0.9002946
YGP2010TWM5G511	0.0161	0.1059	100.1252			0.8009456
YGP2010TWM5G512	0	0	99.2917	Cu>Ag>CdSbS/Carbonate		0.8853728
YGP2010TWM5G513	0	0	99.9655			0.9583464
YGP2010TWM5G514	0	0.1036	99.9274			0.8266194
YGP2010TWM5G515	0.0053	0	100.1977			0.9144256
YGP2010TWM5G516	0.0145	0.0167	99.0408			0.9185943
YGP2010TWM5G517	0	0	100.1924			0.9168545
YGP2010TWM5G518	0.0036	0	99.612			0.8999101
YGP2010TWM5G519	0.0304	0.1345	100.1321			0.9185179
YGP2010TWM5G520	0.003	0.3108	100.4788			0.8887944
YGP2010TWM5G521	0.0088	0	99.2168	Calcite	Calcite	0.9583464
YGP2011TWM10 G61	0.0245	0	100.4592			0.9060016
YGP2011TWM10 G62	0	0	99.73344	FeC)3	Pyrite	0.8758259
YGP2011TWM10G63	0	0.0222	100.3109			0.9298185
YGP2011TWM10G64	0.0375	0	99.95187			0.871266
YGP2011TWM10G65	0.0022	0	100.1284			0.9314011
YGP2011TWM10G66	0.0162	0	99.68334			0.9074961
YGP2011TWM10G67	0.0115	0	100.2669			0.9950254
YGP2011TWM10G68	0	0	100.2881	(Ag>>Cu) S	AgCuS	0.9071944
YGP2011TWM10G69	0.0227	0	100.603			0.9220805
YGP2011TWM10G610	0	0	100.0432			0.9492941
YGP2011TWM10G611	0.0193	0	100.1645			0.9869612
YGP2011TWM10G612	0.0102	0	99.97773			0.9811412
YGP2011TWM10G613	0.0335	0	99.80495			0.9358169
YGP2011TWM10G614	0.0212	0	100.5257			0.9286092
YGP2011TWM10G615	0.0067	0	100.3102			0.9772377
YGP2011TWM10G616	0.0244	0	100.3816	FeS2	Pyrite	0.9932918
YGP2011TWM10G617	0.0092	0	100.4122			0.9640023
YGP2011TWM10G618	0.0077	0	99.88415			0.9375181
YGP2011TWM10G619	0.0214	0	100.587			0.9705218

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G620	73.87438	25.59534
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G71	76.87366	23.51083
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G72	74.45267	25.99621
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G73	72.64919	27.6097
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G74	68.72856	31.33776
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G75	69.44408	31.01707
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G76	74.19783	25.7156
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G77	73.18827	26.92823
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G78	67.71899	32.70071
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G79	69.02261	31.45802
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G710	72.45316	26.87812
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G711	79.47108	20.38408
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G712	65.25881	35.47671
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G713	74.33505	26.03629
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G714	70.189	30.25542
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G715	74.45267	25.41495
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G716	70.63986	29.79442
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G717	87.51816	12.14626
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G718	68.46392	31.93906
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G719	66.88586	33.46235
Henderson	Henderson Ck	Hayden's Pit	591768	7034787	7	YGP2011TWM10G720	66.40559	34.01354
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2010TWM3G41	85.2781	15.0911
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2010TWM3G42	78.6828	21.612
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2010TWM5G21	66.5771	32.3807
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2010TWM5G22	81.5753	18.2829
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2010TWM5G23	84.6766	15.9578
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2010TWM5G24	70.4513	28.887
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2010TWM5G25	70.3103	29.5136
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G91	81.79404	18.02898
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G92	79.86314	19.80282
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G93	77.00108	23.13001
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G94	62.73981	38.23267
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G95	67.39555	32.7909
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G96	61.01473	39.43526
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G97	76.00132	24.09209
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G98	92.42874	7.08532
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G101	88.52772	11.00379

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM10G620	0.0006	0.0192	99.48953			0.9212755
YGP2011TWM10G71	0.0055	0	100.39			0.8701957
YGP2011TWM10G72	0.0166	0	100.4655			0.9227536
YGP2011TWM10G73	0.0155	0	100.2744			0.9341097
YGP2011TWM10G74	0.0191	0	100.0854			0.9562229
YGP2011TWM10G75	0.0119	0	100.473			0.9662376
YGP2011TWM10G76	0.0137	0	99.92714			0.9315573
YGP2011TWM10G77	0.0176	0	100.1341			0.9321859
YGP2011TWM10G78	0.0081	0	100.4278			0.8802762
YGP2011TWM10G79	0.0204	0	100.501			0.8980539
YGP2011TWM10G710	0.0169	0	99.34817			0.9253526
YGP2011TWM10G711	0.0135	0	99.86864			0.9140613
YGP2011TWM10G712	0.0128	0	100.7483			0.9274571
YGP2011TWM10G713	0.0238	0	100.3951			0.8626064
YGP2011TWM10G714	0.0048	0	100.4492			0.9726572
YGP2011TWM10G715	0.0174	0	99.88503			0.9155503
YGP2011TWM10G716	0.0212	0	100.4555	FeAsS	FeAsS	0.9556593
YGP2011TWM10G717	0.0818	0	99.74622			0.9987
YGP2011TWM10G718	0.0217	0	100.4247			0.8979339
YGP2011TWM10G719	0.0081	0	100.3563			0.9142394
YGP2011TWM10G720	0.0176	0	100.4367			0.9113243
YGP2010TWM3G41	0.0156	0.0087	100.3935			0.9167733
YGP2010TWM3G42	0.0265	0	100.3213			0.889666
YGP2010TWM5G21	0	0.0207	98.9785			0.8429905
YGP2010TWM5G22	0.0337	0.0431	99.935			0.9041811
YGP2010TWM5G23	0.0436	0.1389	100.8169			0.8762396
YGP2010TWM5G24	0	0.0669	99.4052			0.8402058
YGP2010TWM5G25	0.0016	0.0501	99.8756			0.8481204
YGP2011TWM10G91	0	0	99.82303			0.8857183
YGP2011TWM10G92	0.0069	0	99.67285	ScYbY silicate		0.8817216
YGP2011TWM10G93	0.0096	0	100.1407			0.8573448
YGP2011TWM10G94	0.0258	0	100.9983	Fes2	Pyrite	0.9056307
YGP2011TWM10G95	0.0055	0	100.192			0.9246358
YGP2011TWM10G96	0.0145	0	100.4645			0.9618841
YGP2011TWM10G97	0.0068	0	100.1002	Fes2	Pyrite	0.8657526
YGP2011TWM10G98	0.0646	0	99.57866			0.9342837
YGP2011TWM10G101	0.0354	0	99.56691			0.947544

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G102	88.50812	11.08397
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G103	61.30878	39.21479
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G104	85.44022	14.48131
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G105	79.19663	20.22373
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G106	79.37306	20.59453
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G107	75.64847	24.72346
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G108	63.77877	36.65927
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G109	57.60379	43.1032
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G1010	66.40559	34.16387
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM10G1011	69.51268	30.70639
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G131	68.9834	30.90683
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G132	57.49597	42.8727
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G133	82.38214	17.1571
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G134	77.69699	22.13787
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G135	74.30565	24.71344
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G136	76.06993	23.44068
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G137	73.56074	24.99404
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G138	74.38406	25.36484
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G139	76.99128	22.54876
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G1310	64.14143	35.61701
Henderson	Henderson Ck	Mid Henderson	587798	7030150	7	YGP2011TWM12G1313	62.82802	37.01003
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2010TWM1G41	91.8789	9.4929
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2010TWM1G42	91.3769	9.779
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2010TWM1G43	94.2133	6.9242
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G86	70.47324	29.1831
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G88	74.12922	25.99621
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G89	80.99031	18.37974
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G812	80.21599	19.67253
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G813	90.75267	8.58857
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G814	62.53397	37.41089
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G815	78.41251	21.33613
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G816	76.60902	22.69908
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G817	86.73403	12.54713
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G818	88.81197	10.44258
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G819	71.09074	27.78007
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G820	91.40938	7.74675
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G821	64.92555	35.34643

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM10G102	0.0143	0	99.60638			0.8772585
YGP2011TWM10G103	0.008	0	100.5316	FeS2	Pyrite	0.8898786
YGP2011TWM10G104	0.019	0	99.94054			0.9763016
YGP2011TWM10G105	0.0152	0	99.43556			0.8662412
YGP2011TWM10G106	0.0149	0	99.98249	CuFes2, PbS	Chalcopyrit	0.9089497
YGP2011TWM10G107	0.025	0	100.3969			0.8953221
YGP2011TWM10G108	0.0289	0.076	100.5429			0.8700391
YGP2011TWM10G109	0.0092	0	100.7162			0.8891041
YGP2011TWM10G1010	0.0025	0	100.572			0.8904619
YGP2011TWM10G1011	0.0133	0	100.2324			0.9578222
YGP2011TWM12G131	0.0212	0	99.91143			0.9462525
YGP2011TWM12G132	0.0248	0	100.3935			0.8783077
YGP2011TWM12G133	0.023	0	99.56224			0.9127242
YGP2011TWM12G134	0.0159	0	99.85075			0.9326505
YGP2011TWM12G135	0.0019	0	99.02099			0.8636174
YGP2011TWM12G136	0.0198	0	99.53041			0.9534503
YGP2011TWM12G137	0.0053	0	98.56008			0.9313897
YGP2011TWM12G138	0.0119	0	99.76081			0.9932418
YGP2011TWM12G139	0.0225	0	99.56254			0.803309
YGP2011TWM12G1310	0.0039	0	99.76234			0.9250124
YGP2011TWM12G1313	0.0068	0.1012	99.94604			0.8980022
YGP2010TWM1G41	0.0052	0	101.377			0.8888926
YGP2010TWM1G42	0.0362	0.0972	101.2893			0.8848137
YGP2010TWM1G43	0.0863	0	101.2238			0.8721119
YGP2011TWM11G86	0.0076	0	99.66394			0.8905991
YGP2011TWM11G88	0.0065	0	100.1319			0.8539201
YGP2011TWM11G89	0.0149	0	99.38496			0.9043709
YGP2011TWM11G812	0.0121	0	99.90062			0.8803701
YGP2011TWM11G813	0.0451	0	99.38634			0.8369138
YGP2011TWM11G814	0.0096	0	99.95447			0.9756852
YGP2011TWM11G815	0.0166	0	99.76524			0.9086591
YGP2011TWM11G816	0.0043	0	99.31241			0.871362
YGP2011TWM11G817	0.0269	0	99.30806			0.8195212
YGP2011TWM11G818	0.0273	0	99.28185	BiTe	BiTe	0.8855695
YGP2011TWM11G819	0.0019	1.04	99.9127			0.9289469
YGP2011TWM11G820	0.063	0.0378	99.25694	MoS2	Molybdenu	0.8377888
YGP2011TWM11G821	0.0099	0	100.2819	CaCO3	Calcite	0.9224991

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G822	90.37041	8.869178
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G823	76.65803	23.19014
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G824	90.85069	8.668743
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G825	64.6119	35.14599
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G91	84.17582	15.40331
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G92	70.57125	29.54388
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G93	66.21936	33.96344
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G94	80.21599	19.60238
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G95	86.13613	13.06826
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G96	60.27961	39.87622
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G97	86.84185	12.3968
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G98	68.03265	32.13949
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G99	84.0288	14.95233
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G910	74.96236	25.13435
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G913	87.34173	11.99594
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G914	76.10914	23.5409
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM11G917	84.90115	14.48131
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12 G144	89.58629	9.951518
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G145	60.98533	39.09453
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1410	89.43926	10.20206
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G146	69.12062	31.46804
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G101	87.52796	11.20423
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G102	75.80528	22.49865
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G103	87.92982	9.089654
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G104	83.61713	14.13055
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G105	88.14545	10.43256
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G106	57.73121	40.74811
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G107	82.94083	15.69393
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G108	94.56548	1.50325
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G109	80.9217	18.29957
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1010	88.09644	10.90358
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1011	66.32718	32.7909
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1012	82.66638	15.45341
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1013	90.66446	7.636512
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1014	86.27335	12.72752
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1015	76.47179	22.06772
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1016	88.97859	10.10184

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM11G822	0.0461	0	99.28568			0.8354335
YGP2011TWM11G823	0.0325	0	99.88067			0.8818935
YGP2011TWM11G824	0.0402	0	99.55964			0.9485257
YGP2011TWM11G825	0.0089	0.0442	99.81099	CuFeAgS	AgS	0.897016
YGP2011TWM11G91	0.0378	0	99.61693			0.8779733
YGP2011TWM11G92	0.0049	0	100.12			0.8272356
YGP2011TWM11G93	0.0184	0	100.2012			0.864905
YGP2011TWM11G94	0.0091	0	99.82748	Zircon	Zircon	0.8358059
YGP2011TWM11G95	0.0274	0	99.23179			0.9180802
YGP2011TWM11G96	0.0007	0	100.1565			0.9022068
YGP2011TWM11G97	0.0212	0	99.25986	BaSO4	Barite	0.8867963
YGP2011TWM11G98	0.0108	0	100.183			0.8363181
YGP2011TWM11G99	0.0369	0	99.01804			0.8378784
YGP2011TWM11G910	0.0115	0	100.1082			0.8955464
YGP2011TWM11G913	0.0383	0	99.37597			0.9288404
YGP2011TWM11G914	0.0133	0	99.66334	AgTeS/TiO2	AgTeS	0.8949212
YGP2011TWM11G917	0.0268	0	99.40926			0.884632
YGP2011TWM12 G144	0.0411	0	99.5789			0.9067847
YGP2011TWM12G145	0.0007	0	100.0806			0.9587325
YGP2011TWM12G1410	0.0509	0	99.69222			0.9582311
YGP2011TWM12G146	0.0036	0	100.5923			0.9695601
YGP2011TWM12G101	0.0092	0	98.74139			0.8652198
YGP2011TWM12G102	0.0123	0	98.31623			0.8815955
YGP2011TWM12G103	0.0635	0	97.08298			0.8391533
YGP2011TWM12G104	0.0478	0	97.79549			0.8517082
YGP2011TWM12G105	0.0387	0	98.61671			0.9500582
YGP2011TWM12G106	0.0262	0.149	98.65452			0.9401141
YGP2011TWM12G107	0.0354	0	98.67016			0.8971381
YGP2011TWM12G108	0.1148	0	96.18353			0.914474
YGP2011TWM12G109	0.0226	0	99.24387			0.8385215
YGP2011TWM12G1010	0.0016	0	99.00162			0.9512684
YGP2011TWM12G1011	0.0186	0.0053	99.14198			0.8858303
YGP2011TWM12G1012	0.0184	0	98.1382			0.8906788
YGP2011TWM12G1013	0.0705	0	98.37148			0.8193498
YGP2011TWM12G1014	0.0064	0	99.00727			0.9495743
YGP2011TWM12G1015	0.0229	0	98.56242	FeS2	Pyrite	0.895523
YGP2011TWM12G1016	0.0158	0	99.09624			0.9064914

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1017	70.03217	29.80444
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1018	85.75388	12.75758
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1019	73.93319	25.50515
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1020	66.09194	32.81095
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G111	63.45532	36.73944
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G112	67.38575	33.05146
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G113	90.75267	8.197725
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G114	71.04173	28.64193
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G115	83.82297	15.45341
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G116	76.41299	22.87947
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G117	64.77853	35.3364
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G118	86.32236	13.27871
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G119	87.50835	12.17633
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1110 - Dark	74.69771	24.75352
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1110 - Light	92.34052	7.155471
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1111	73.77636	25.03413
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1112	74.07041	26.05634
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1113	76.40318	22.35834
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1114	78.80457	20.14355
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1115	89.93915	9.159806
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1116	87.773	11.00379
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1117	79.40247	19.48212
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1118	88.56693	10.93364
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1119	69.87534	28.7221
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G1120	90.00776	9.139762
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G121	63.17107	36.04794
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G122	78.45171	21.05553
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G123	82.91142	16.75623
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G124	81.32357	17.54794
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G126	88.75316	10.12189
Henderson	North Henderson Ck	Lower N Henderson	583250	7029603	7	YGP2011TWM12G127	87.60637	11.25433
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G21	68.93799	30.22395
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G22 Phase 1	78.70454	21.31176
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G22 Phase 2	97.15358	2.871375
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G23	78.24281	21.66944
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G24	75.09101	24.61036
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G25	78.96552	20.81498

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM12G1017	0.0281	0	99.86471			0.9436098
YGP2011TWM12G1018	0.0518	0	98.56326			0.9131096
YGP2011TWM12G1019	0.0399	0	99.47824			0.9212019
YGP2011TWM12G1020	0	0.1692	99.07209			0.8818075
YGP2011TWM12G111	0.0134	0	100.2082			0.9029063
YGP2011TWM12G112	0.0005	0	100.4377			0.8420329
YGP2011TWM12G113	0.0722	0	99.02259			0.8956353
YGP2011TWM12G114	0.01	0	99.69366			0.9354042
YGP2011TWM12G115	0.032	0	99.30838			0.9370971
YGP2011TWM12G116	0.0042	0	99.29666			0.9155495
YGP2011TWM12G117	0	0	100.1149			0.9011851
YGP2011TWM12G118	0.0303	0	99.63137			0.896598
YGP2011TWM12G119	0.0488	0	99.73348			0.9073859
YGP2011TWM12G1110 - Dark	0.0087	0.0163	99.47623			0.9205856
YGP2011TWM12G1110 - Light	0.0562	0	99.55219			0.9205856
YGP2011TWM12G1111	0.0224	0	98.83289			0.9202262
YGP2011TWM12G1112	0.0116	0	100.1384			0.8950079
YGP2011TWM12G1113	0	0	98.76153	PbS	Galena	0.9187695
YGP2011TWM12G1114	0.014	0	98.96212			0.8885046
YGP2011TWM12G1115	0.0608	0	99.15975			0.9688013
YGP2011TWM12G1116	0.0295	0	98.8063			0.9086478
YGP2011TWM12G1117	0.0078	0	98.89239			0.9003232
YGP2011TWM12G1118	0.0103	0	99.51086			0.9656321
YGP2011TWM12G1119	0.0078	0	98.60524			0.9540029
YGP2011TWM12G1120	0.051	0	99.19852			0.9330535
YGP2011TWM12G121	0.02	0	99.23901			0.9171555
YGP2011TWM12G122	0.007	0	99.51424			0.8879749
YGP2011TWM12G123	0.0064	0	99.67405			0.8812022
YGP2011TWM12G124	0.0103	0	98.88181			0.9085607
YGP2011TWM12G126	0.0118	0	98.88685			0.909508
YGP2011TWM12G127	0.0322	0	98.89291			0.8974755
YGP2011TWM22G21	0.0058	0	99.16774			0.870829
YGP2011TWM22G22 Phase 1	0.0267	0.0202	100.0632			0.985146
YGP2011TWM22G22 Phase 2	0.0075	0	100.0325			0.985146
YGP2011TWM22G23	0.0287	0	99.94095			0.8210061
YGP2011TWM22G24	0.0227	0.0086	99.73267			0.8742019
YGP2011TWM22G25	0.0205	0.0447	99.8457			0.8853959

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G26	70.73471	28.34613
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G27	84.52632	14.70462
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G28	78.47368	20.94415
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G29	65.81631	33.41327
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G210	75.34195	24.29243
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G211	69.9016	29.81659
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G212	74.89027	24.93824
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G213	97.44467	2.126208
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G214	75.33192	24.30236
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G215	84.07464	15.54914
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G31	64.22034	35.79779
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G32	65.47504	34.83405
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G33	71.76859	28.01826
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G34	77.10857	22.72261
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G35	92.12476	7.382115
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G36	71.88904	27.79968
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G37	77.8112	21.87809
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G38	66.43864	33.7312
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G39	70.15253	30.05505
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G310	88.55139	10.42239
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G311	83.55268	16.24463
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G312	97.92647	1.927497
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G313	74.91034	25.15682
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G314	78.36326	20.92427
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G315	74.15752	25.17669
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G41	69.99194	29.69737
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G42	72.66193	26.86574
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G43	72.2002	27.38238
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G44	70.59419	28.88265
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G45	68.25543	31.4957
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G46	85.87136	13.50242
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G47	71.13622	29.90601
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G48	69.09859	30.64124
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G49	82.47866	16.95999
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G410	75.67319	23.83539
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G411	79.08597	20.88453
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G412	79.36702	20.34801

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM22G26	0.0239	0	99.10474			0.8838649
YGP2011TWM22G27	0.0192	0	99.25014			0.7621912
YGP2011TWM22G28	0.0247	0	99.44252			0.863846
YGP2011TWM22G29	0.0168	0.4903	99.73667			0.9124326
YGP2011TWM22G210	0.0236	0	99.65797			0.8367674
YGP2011TWM22G211	0.027	0.0258	99.77099			0.8515475
YGP2011TWM22G212	0.0035	0	99.83201			0.8577913
YGP2011TWM22G213	0.1519	0	99.72278			0.8025489
YGP2011TWM22G214	0	0	99.63428			0.8753342
YGP2011TWM22G215	0.0297	0	99.65348			0.8323049
YGP2011TWM22G31	0.0007	0.0439	100.0627			0.8715491
YGP2011TWM22G32	0.0126	0.0811	100.4028			0.7924824
YGP2011TWM22G33	0.0145	0	99.80135			0.8277323
YGP2011TWM22G34	0.0211	0	99.85228			0.8402879
YGP2011TWM22G35	0.0732	0	99.58008			0.8346372
YGP2011TWM22G36	0.023	0	99.71172			0.8237968
YGP2011TWM22G37	0.0205	0	99.70979			0.8533621
YGP2011TWM22G38	0.0185	0	100.1883			0.8802684
YGP2011TWM22G39	0.0289	0.029	100.2655			0.7920704
YGP2011TWM22G310	0.0327	0	99.00648			0.8184189
YGP2011TWM22G311	0.0289	0	99.82621			0.8622002
YGP2011TWM22G312	0.143	0	99.99696			0.8428594
YGP2011TWM22G313	0.0173	0	100.0845			0.8890292
YGP2011TWM22G314	0.0266	0	99.31413			0.8497307
YGP2011TWM22G315	0.0359	0	99.3701			0.8635071
YGP2011TWM22G41	0.0155	0	99.7048			0.7504372
YGP2011TWM22G42	0.0292	0	99.55686			0.7563581
YGP2011TWM22G43	0.0097	0	99.59228			0.8395059
YGP2011TWM22G44	0.0207	0	99.49754			0.840062
YGP2011TWM22G45	0.0116	0	99.76273			0.8470293
YGP2011TWM22G46	0.027	0	99.40078			0.8850578
YGP2011TWM22G47	0.0097	0	101.0519			0.8076124
YGP2011TWM22G48	0.0142	0	99.75403			0.8877234
YGP2011TWM22G49	0.0182	0	99.45685			0.8618903
YGP2011TWM22G410	0.0185	0	99.52708			0.8648375
YGP2011TWM22G411	0.0149	0.028	100.0134			0.8244051
YGP2011TWM22G412	0.0364	0	99.75143			0.8277357

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G413	79.47743	20.04001
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G414	80.38081	18.69871
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G415	75.49252	24.28249
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G11	81.13363	18.32116
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G12	65.89661	34.07895
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G13	87.60786	12.34989
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G14	62.14256	38.24194
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G15	67.70337	31.99248
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G16	91.62288	8.157089
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G17	91.63292	7.968314
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G18	89.52503	10.0051
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G19	70.75478	28.89259
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G110	79.95924	19.40413
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G111	76.27544	23.37836
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G112	72.86267	26.09076
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G113	76.90781	22.93126
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G114	80.54141	19.09613
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G115	70.25291	29.51853
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G116	78.87518	20.67588
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G117	86.45354	13.26396
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G118	75.97433	23.94468
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G119	76.25537	21.83834
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM22G120	78.81495	19.5631
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G61	78.51382	20.89107
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G62	68.96539	30.35734
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G63	71.87405	27.46899
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G64	73.32838	26.11384
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G65	86.93892	13.12616
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G66	90.80042	8.556239
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G67	87.43038	11.51383
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G68	88.53366	9.921281
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G69	73.62928	26.26221
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G610	75.54498	24.0366
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G611	62.94746	36.59894
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G612	83.29808	14.91654
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G613	66.79893	32.38512
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G614	72.98737	26.8656

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM22G413	0.0113	0	99.52874			0.8139926
YGP2011TWM22G414	0.035	0	99.11452			0.8156061
YGP2011TWM22G415	0	0	99.77501			0.8859436
YGP2011TWM22G11	0.0253	0	99.48009			0.8560517
YGP2011TWM22G12	0.0263	0.0208	100.0227			0.8535948
YGP2011TWM22G13	0.0363	0	99.99405			0.8393785
YGP2011TWM22G14	0.0164	0	100.4009			0.8539664
YGP2011TWM22G15	0.025	0	99.72085			0.8740406
YGP2011TWM22G16	0.0486	0	99.82857			0.9265284
YGP2011TWM22G17	0.0606	0.0458	99.70763			0.8152495
YGP2011TWM22G18	0.0592	0.0196	99.60893			0.8554342
YGP2011TWM22G19	0.0271	0	99.67447			0.8235285
YGP2011TWM22G110	0.044	0.0778	99.48517			0.8257066
YGP2011TWM22G111	0.0279	0	99.6817			0.788245
YGP2011TWM22G112	0.0251	0	98.97853			0.8696382
YGP2011TWM22G113	0.023	0.032	99.89407			0.8687133
YGP2011TWM22G114	0.0077	0	99.64524			0.8347333
YGP2011TWM22G115	0.0118	0	99.78323			0.8210426
YGP2011TWM22G116	0.0346	0	99.58567			0.8562599
YGP2011TWM22G117	0.0358	0	99.7533			0.8316085
YGP2011TWM22G118	0.0172	0	99.9362			0.8279133
YGP2011TWM22G119	0.0315	0	98.12522			0.8762111
YGP2011TWM22G120	0.0303	0.7311	99.13945			0.834089
YGP2011TWM24G61	0.035	0	99.4399			0.8441049
YGP2011TWM24G62	0.0146	0	99.33733			0.8447853
YGP2011TWM24G63	0.0118	0.1671	99.52195	FeS2	Pyrite	0.8845558
YGP2011TWM24G64	0.0138	0.0217	99.47772	CaMgCO3	Calcite	0.8966191
YGP2011TWM24G65	0.0469	0	100.112			0.9404518
YGP2011TWM24G66	0.0458	0	99.40245			0.8684847
YGP2011TWM24G67	0.0447	0.0125	99.00141			0.8656168
YGP2011TWM24G68	0.0187	0	98.47364			0.8887855
YGP2011TWM24G69	0.0362	0	99.9277			0.9295518
YGP2011TWM24G610	0.0093	0.0862	99.67709			0.882854
YGP2011TWM24G611	0.0044	0	99.5508			0.9220554
YGP2011TWM24G612	0.0212	0.5372	98.77303	AgTe	AgTe	0.9091869
YGP2011TWM24G613	0.0127	0.0386	99.23535			0.8847967
YGP2011TWM24G614	0.0032	0	99.85616	AgCuS/PbS	Galena	0.9162176

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G615	88.99504	10.10922
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G616	75.66534	23.54202
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G617	87.76137	11.70177
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G618	70.18903	29.12089
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G619	89.18561	9.970738
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G620	74.10068	25.37197
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G621	78.43359	20.90096
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G622	81.25198	18.20055
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G623	69.87811	29.38796
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G624	76.32731	23.59148
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G625	69.39668	29.88254
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G51	77.37042	21.64283
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G52	72.92719	26.79636
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G53	87.36017	11.16762
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G54	70.03859	29.3385
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G55	71.01148	28.19108
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G56	84.94298	14.80773
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G57	71.59322	28.35923
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G58	76.51788	22.82983
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G59	68.97542	30.98051
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G510	71.59322	27.80531
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G511	74.50188	24.91696
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G512	78.27311	21.8011
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G513	82.24493	17.16194
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G514	43.36916	57.88568
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G515	76.20696	22.40449
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G516	75.03345	24.28389
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G517	64.0006	35.29325
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G518	86.51766	12.53266
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G519	79.23598	20.68335
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G520	68.03262	31.76195
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G521	71.31238	28.00314
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G522	66.38772	33.68092
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G523	74.94319	24.91696
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G524	84.953	13.72955
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM24G525	71.61327	27.26126
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G21	75.11211	24.84043

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM24G615	0.0458	0	99.15006			0.8669542
YGP2011TWM24G616	0.0166	0	99.22397			0.8383494
YGP2011TWM24G617	0.0202	0	99.48334			0.8469362
YGP2011TWM24G618	0.0295	0	99.33942			0.9176714
YGP2011TWM24G619	0.0434	0	99.19975	CaCO3	Calcite	0.9206868
YGP2011TWM24G620	0.022	0	99.49465	FeS2	Pyrite	0.917194
YGP2011TWM24G621	0.0286	0	99.36315	TiO2	Rutile	0.8857966
YGP2011TWM24G622	0.0294	0	99.48194	FeS2	Pyrite	0.8264622
YGP2011TWM24G623	0.006	0	99.27206			0.9028809
YGP2011TWM24G624	0.0152	0	99.93399			0.8838272
YGP2011TWM24G625	0.0091	0.0083	99.29662			0.8776194
YGP2011TWM24G51	0.0266	0	99.03986	CaCO3	Calcite	0.884517
YGP2011TWM24G52	0.0131	0.0442	99.78084	CuFeS2	Chalcopyrit	0.9194922
YGP2011TWM24G53	0.0293	0	98.55709			0.8743214
YGP2011TWM24G54	0.0033	0	99.38039	BaSO4	Barite	0.8840558
YGP2011TWM24G55	0.0226	0	99.22516			0.8701396
YGP2011TWM24G56	0.0421	0	99.79281			0.8790852
YGP2011TWM24G57	0.0148	0.0353	100.0026			0.9298772
YGP2011TWM24G58	0.0142	0	99.36191			0.8796134
YGP2011TWM24G59	0.01	0	99.96593			0.8336135
YGP2011TWM24G510	0.0131	0	99.41162			0.8180739
YGP2011TWM24G511	0.0149	0	99.43373			0.8941757
YGP2011TWM24G512	0.0104	0	100.0846			0.9440858
YGP2011TWM24G513	0.031	0.055	99.49287			0.9085141
YGP2011TWM24G514	0.0049	0	101.2597			0.8803902
YGP2011TWM24G515	0.0172	0.0316	98.66025			0.8765054
YGP2011TWM24G516	0.0183	0	99.33565			0.8928527
YGP2011TWM24G517	0.0212	0.1196	99.43465			0.859532
YGP2011TWM24G518	0.0279	0.0569	99.13512			0.9062117
YGP2011TWM24G519	0.0177	0	99.93703			0.8647591
YGP2011TWM24G520	0.0124	0	99.80696			0.9226193
YGP2011TWM24G521	0.0236	0	99.33911			0.9155099
YGP2011TWM24G522	0.0077	0	100.0763			0.8775312
YGP2011TWM24G523	0.0195	0	99.87965			0.8983842
YGP2011TWM24G524	0.0346	0.0751	98.79226			0.9107543
YGP2011TWM24G525	0.013	0.0265	98.91404			0.8719306
YGP2011TWM20G21	0.011	0	99.96355			0.8966113

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G22	92.91736	6.496424
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G23	80.25363	18.29464
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G24	88.68612	10.90965
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G25	89.28629	9.932223
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G26	87.58578	11.65012
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G27	77.18273	22.1846
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G28	76.47251	23.3891
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G29	89.07623	9.813746
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G210	80.45369	19.77559
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G211	67.11976	32.86717
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G212	83.43457	15.77703
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G213	66.98972	33.12386
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G214	70.67081	29.13518
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G215	81.59402	17.15925
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G216	78.7832	20.84187
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G217	91.33689	8.313053
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G218	88.16596	11.99568
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G219	77.49282	22.75723
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G220	72.85146	27.17045
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G221	89.02621	10.95901
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G11	66.55711	33.57917
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G12	95.24465	4.266206
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G13	74.25719	25.99044
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G14	86.62337	12.97556
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G15	68.28937	31.70165
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G16	80.05477	18.36238
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G17	81.757	17.54649
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G18	80.01472	19.33555
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G19	88.47579	10.86211
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G110	81.08612	18.94235
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G111	87.42442	12.05154
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G112	69.51097	30.73831
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G113	87.32429	12.21865
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G114	82.39783	16.47503
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G115	90.44837	8.689692
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G116	64.52444	35.3584
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G117	81.41655	17.53666

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM20G22	0.0467	0	99.46048			0.8704312
YGP2011TWM20G23	0.0347	0	98.58297			0.8207559
YGP2011TWM20G24	0.0346	0.0069	99.63726			0.8493181
YGP2011TWM20G25	0.0393	0	99.25781			0.9228534
YGP2011TWM20G26	0.0328	0	99.26871			0.8822292
YGP2011TWM20G27	0.0238	0	99.39113			0.8650778
YGP2011TWM20G28	0.0059	0	99.86751			0.8388497
YGP2011TWM20G29	0.0297	0.0866	99.00628			0.8704388
YGP2011TWM20G210	0.0358	0.0978	100.3629			0.8890029
YGP2011TWM20G211	0.0127	0.039	100.0386			0.8295261
YGP2011TWM20G212	0.0257	0.2207	99.45801			0.8226979
YGP2011TWM20G213	0.0164	0	100.13			0.8210818
YGP2011TWM20G214	0.021	0	99.82699			0.8121116
YGP2011TWM20G215	0.0171	0.0664	98.83677			0.8363425
YGP2011TWM20G216	0.0102	0	99.63528			0.7670957
YGP2011TWM20G217	0.057	0	99.70695			0.867648
YGP2011TWM20G218	0.0286	0.0444	100.2346			0.9107728
YGP2011TWM20G219	0.0268	0	100.2768			0.8232209
YGP2011TWM20G220	0.0036	0	100.0255			0.8182041
YGP2011TWM20G221	0.0398	0.0231	100.0481			0.796141
YGP2011TWM20G11	0.0237	0	100.16			0.8704354
YGP2011TWM20G12	0.1435	0	99.65436			0.989888
YGP2011TWM20G13	0.0281	0	100.2757			0.9257113
YGP2011TWM20G14	0.0365	0.0305	99.66592			0.8846703
YGP2011TWM20G15	0.0251	0.0568	100.0729			0.8938397
YGP2011TWM20G16	0.0234	0	98.44055			0.9136793
YGP2011TWM20G17	0.0235	0	99.327			0.8709014
YGP2011TWM20G18	0.0286	0.2121	99.59097			0.9043375
YGP2011TWM20G19	0.033	0	99.3709			0.8736246
YGP2011TWM20G110	0.0407	0	100.0692			0.8317887
YGP2011TWM20G111	0.0696	0	99.54556			0.9397202
YGP2011TWM20G112	0.0207	0	100.27			0.8637181
YGP2011TWM20G113	0.0551	0	99.59804			0.8885927
YGP2011TWM20G114	0.0392	0	98.91206			0.8753307
YGP2011TWM20G115	0.04	0	99.17806			0.872209
YGP2011TWM20G116	0.0281	0	99.91094			0.8816333
YGP2011TWM20G117	0.0288	0.1405	99.12252			0.921833

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G118	89.27684	10.38045
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G119	73.40607	25.46945
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G120	69.85142	29.97157
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G121	66.06647	33.95271
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G122	76.18971	23.5526
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G123	67.34814	31.71148
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G124	65.9463	33.8839
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM20G125	74.8079	24.07359
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G101	63.53576	37.02925
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G102	72.84832	26.80185
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G103	76.14277	23.63321
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G104	87.23775	11.54361
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G105	90.14166	9.574178
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G106	70.03453	29.87299
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G107	76.32301	23.79895
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G108	98.57304	0.6562504
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G109	73.55928	26.20712
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1010	64.66728	35.84954
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1011	61.14252	38.48196
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1012	78.23559	20.7083
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1013	74.35035	26.04137
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1014	74.60069	25.52464
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1015	90.63232	8.696708
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1016	75.32166	23.98419
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1017	85.78578	13.99078
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1018	81.39986	18.51463
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1019	76.75359	21.84901
Henderson	Henderson Ck	Lower Henderson	582819	7028305	7	YGP2011TWM21G1020	71.52654	28.46904
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G91	83.96423	15.18152
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G92	89.64548	9.081096
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G93	74.16756	25.38534
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G94	97.12347	1.629431
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G95	84.03448	13.92965
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G96	84.20512	14.42642
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G97	48.88294	50.721
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G98	81.88645	17.19844
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G99	74.19767	25.18663

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM20G118	0.082	0	99.73929			0.8769449
YGP2011TWM20G119	0.0057	0	98.88122			0.8555235
YGP2011TWM20G120	0.0174	0.012	99.85239			0.8693624
YGP2011TWM20G121	0.0142	0.0237	100.0571			0.9071054
YGP2011TWM20G122	0.0078	0	99.75011			0.9474903
YGP2011TWM20G123	0.0265	0	99.08612			0.8458812
YGP2011TWM20G124	0.0069	0	99.8371			0.9117934
YGP2011TWM20G125	0.0185	0	98.89999			0.8917073
YGP2011TWM21G101	0.0104	0	100.5754			0.8385657
YGP2011TWM21G102	0.0153	0.0566	99.72207			0.8636474
YGP2011TWM21G103	0.0317	0	99.80767			0.8284565
YGP2011TWM21G104	0.0545	0	98.83585			0.8489181
YGP2011TWM21G105	0.0403	0.0928	99.84894			0.9137716
YGP2011TWM21G106	0.0327	0	99.94022			0.9284293
YGP2011TWM21G107	0.0327	0	100.1547			0.8079265
YGP2011TWM21G108	0.219	0	99.4483			0.9759958
YGP2011TWM21G109	0.0145	0	99.7809			0.8437823
YGP2011TWM21G1010	0.0218	0	100.5386			0.8746577
YGP2011TWM21G1011	0.0205	0.0527	99.69768			0.8314286
YGP2011TWM21G1012	0.0146	0	98.9585			0.7963908
YGP2011TWM21G1013	0.0168	0	100.4085			0.820802
YGP2011TWM21G1014	0.0204	0	100.1457			0.8398596
YGP2011TWM21G1015	0.0516	0.0103	99.39093			0.8712385
YGP2011TWM21G1016	0.0086	0	99.31445			0.8431681
YGP2011TWM21G1017	0.0457	0	99.82227			0.9411059
YGP2011TWM21G1018	0.035	0	99.94949			0.8098837
YGP2011TWM21G1019	0.0254	0	98.62801			0.8418827
YGP2011TWM21G1020	0.0104	0.0523	100.0583			0.932249
YGP2011TWM23G91	0.033	0	99.17875			0.8000434
YGP2011TWM23G92	0.0458	0.0274	98.79977			0.7582018
YGP2011TWM23G93	0.0212	0	99.5741			0.9200283
YGP2011TWM23G94	0.1825	0	98.93541			0.8631317
YGP2011TWM23G95	0.0336	0	97.99773			0.8232509
YGP2011TWM23G96	0.0232	0.09	98.74474			0.89948
YGP2011TWM23G97	0.0039	0	99.60783			0.9180215
YGP2011TWM23G98	0.0271	0	99.11199			0.8332694
YGP2011TWM23G99	0.0124	0	99.39669			0.9350339

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G910	88.62165	10.93904
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G911	87.05579	11.92266
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G912	75.08098	24.14339
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G913	82.32809	16.83083
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G914	79.72837	20.20891
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G915	88.48112	9.548066
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G916	68.14502	31.70435
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G917	55.99957	44.58082
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G918	90.57897	8.008056
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G919	97.16362	2.006982
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G920	80.71206	18.56955
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM23G921	88.36067	9.637486
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G31	79.86786	18.69514
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G32	62.51619	36.65829
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G33	69.83798	30.09027
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G34	67.40073	32.08837
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G35	70.72062	28.69555
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G36	59.54734	40.49623
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G37	79.00529	20.71302
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G38	85.56482	13.77901
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G39	73.74963	25.63904
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G310	67.88216	32.38512
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G311	77.74153	21.51424
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G312	80.921	18.16099
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G313	89.72722	10.38619
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G314	76.58809	23.17603
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM24G315	66.44789	32.6423
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G11	66.86539	34.00714
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G12	89.84692	8.02009
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G13	58.24856	41.57732
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G14	85.09867	14.03516
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G15	53.55029	45.43088
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G16	67.17527	32.78456
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G17	81.52	18.06476
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G18	73.94278	25.79144
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G19	81.80988	16.84219
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G110	81.7599	17.47793

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM23G910	0.0373	0	99.59799			0.8698428
YGP2011TWM23G911	0.0242	0	99.00266			0.9242836
YGP2011TWM23G912	0.0115	0	99.23587			0.9288391
YGP2011TWM23G913	0.022	0.0409	99.22182			0.85889
YGP2011TWM23G914	0.0164	0.0126	99.96629			0.7416251
YGP2011TWM23G915	0.0651	0	98.09429			0.8211415
YGP2011TWM23G916	0.0196	0.2424	100.1114	Ag2S	AgS	0.8894202
YGP2011TWM23G917	0.0198	0	100.6002			0.8786489
YGP2011TWM23G918	0.0621	0	98.64913			0.9318139
YGP2011TWM23G919	0.0926	0	99.2632			0.9126187
YGP2011TWM23G920	0.0166	0.0361	99.33431			0.9369323
YGP2011TWM23G921	0.0409	0	98.03905			0.9292499
YGP2011TWM24G31	0.0282	0	98.59119			0.8609058
YGP2011TWM24G32	0.0067	0.0724	99.25358			0.8138885
YGP2011TWM24G33	0.0192	0	99.94745			0.7926929
YGP2011TWM24G34	0.0192	0	99.50829	Ag2S	AgS	0.7642543
YGP2011TWM24G35	0.0012	0.0745	99.49187			0.9257921
YGP2011TWM24G36	0.0151	0	100.0587			0.8369788
YGP2011TWM24G37	0.0194	0.1404	99.87811	Pyrrhotite	Pyrrhotite	0.9333403
YGP2011TWM24G38	0.0393	0	99.38313			0.8684557
YGP2011TWM24G39	0.0296	0.0542	99.47247			0.9328979
YGP2011TWM24G310	0.0203	0.0099	100.2975			0.7972659
YGP2011TWM24G311	0.0191	0	99.27487			0.7595689
YGP2011TWM24G312	0.0241	0	99.10609	FeS2	Pyrite	0.8355305
YGP2011TWM24G313	0.0389	0	100.1523			0.8335197
YGP2011TWM24G314	0.0264	0	99.79052	CaCO3	Calcite	0.972935
YGP2011TWM24G315	0.0032	0	99.09339			0.8613947
YGP2011TWM21G11	0.0302	0.0519	100.9546			0.9004484
YGP2011TWM21G12	0.0493	0	97.91631			0.8641819
YGP2011TWM21G13	0.0216	0	99.84748			0.8896737
YGP2011TWM21G14	0.0183	0	99.15213			0.8268547
YGP2011TWM21G15	0	0.0838	99.06497			0.8697328
YGP2011TWM21G16	0.0104	0.0177	99.98794			0.8831391
YGP2011TWM21G17	0.0275	0.0523	99.66456			0.8962771
YGP2011TWM21G18	0.0271	0	99.76132	FeS2, FeAsS	Pyrite	0.7895393
YGP2011TWM21G19	0.0352	0	98.68727			0.9042463
YGP2011TWM21G110	0.0294	0	99.26723	FeS2, FeAsS	Pyrite	0.8787601

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G111	84.7688	13.3603
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G112	83.51926	15.36532
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G113	57.79872	41.5382
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G114	84.34895	14.54375
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G115	64.87612	34.91674
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G116	84.84876	14.25033
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G117	65.96571	33.03886
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G118	79.93057	16.55855
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G119	90.03686	8.391753
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G120	55.90942	43.29871
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G121	70.98387	29.95797
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G122	71.15381	26.79884
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G123	74.85244	24.12874
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G124	81.77989	17.65398
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G125	59.26818	40.06133
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G21	77.85134	20.64684
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G22 - Phase 1	41.04489	59.63231
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G22 - Phase 2	54.31001	44.86361
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G23	88.15755	10.85646
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G24	91.88617	6.924664
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G25	85.95836	13.52657
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G26	68.44481	31.36638
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G27	80.34043	18.09411
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G28	73.44296	25.18504
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G29	81.40003	17.13561
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G210	90.75659	7.863601
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G211	72.2634	27.89427
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G212	53.08046	47.60217
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G213	92.96577	5.985726
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G214	88.03759	11.17922
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G215	72.98314	25.32197
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G216	65.91574	34.17341
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G217	68.59475	30.46656
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G218	72.71323	25.63495
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G219	74.31264	24.46128
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G220	86.02833	12.79302
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G221	70.10419	29.84061

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM21G111	0.0508	0	98.17989			0.8701961
YGP2011TWM21G112	0.0387	0.0009	98.92417			0.8463253
YGP2011TWM21G113	0.0201	0.1267	99.48373			0.8583398
YGP2011TWM21G114	0.0398	0.0675	98.99999			0.848359
YGP2011TWM21G115	0.0045	0.0447	99.84206			0.8979004
YGP2011TWM21G116	0.0192	0	99.11829			0.8922755
YGP2011TWM21G117	0.0166	0	99.02118			0.8668601
YGP2011TWM21G118	0.0059	1.7	98.19502			0.9289209
YGP2011TWM21G119	0.1089	0	98.53751			0.9006374
YGP2011TWM21G120	0.0111	0.0615	99.28073			0.9013794
YGP2011TWM21G121	0.0261	0.0466	101.0145			0.862193
YGP2011TWM21G122	0.0171	0.5463	98.51605	FeS2.	Pyrite	0.8025181
YGP2011TWM21G123	0.019	0	99.00018			0.9448789
YGP2011TWM21G124	0.0133	0.0691	99.51627			0.9390936
YGP2011TWM21G125	0.0314	0	99.36092			0.8818117
YGP2011TWM21G21	0.0377	0.0212	98.55708			0.8974421
YGP2011TWM21G22 - Phase 1	0.0242	0.7149	101.4163			0.9264973
YGP2011TWM21G22 - Phase 2	0.038	0.2062	99.41782			0.9264973
YGP2011TWM21G23	0.0229	0	99.03691			0.8934683
YGP2011TWM21G24	0.0728	0	98.88364			0.8110311
YGP2011TWM21G25	0.0295	0	99.51443			0.8793991
YGP2011TWM21G26	0.0112	0.1695	99.99189			0.9278437
YGP2011TWM21G27	0.0365	0.032	98.50304	CaCO3	Calcite	0.8453755
YGP2011TWM21G28	0.0227	0	98.6507			0.8899183
YGP2011TWM21G29	0.0195	0.0794	98.63454			0.9395408
YGP2011TWM21G210	0.051	0	98.6712			0.9089756
YGP2011TWM21G211	0.0329	0	100.1906			0.9087626
YGP2011TWM21G212	0.0007	0	100.6833			0.929488
YGP2011TWM21G213	0.0874	0	99.0389			0.9512055
YGP2011TWM21G214	0.0535	0.0009	99.27121	CuFeS2	Chalcopyrite	0.9153943
YGP2011TWM21G215	0.0263	0.6836	99.01501			0.8779062
YGP2011TWM21G216	0.008	0.1863	100.2835			0.9637019
YGP2011TWM21G217	0.0121	0.1769	99.25031	Ag2S	AgS	0.8838891
YGP2011TWM21G218	0.0328	0	98.38098			0.8384487
YGP2011TWM21G219	0.0254	0	98.79931	FeS2	Pyrite	0.8287857
YGP2011TWM21G220	0.0073	0.0266	98.85526			0.9009471
YGP2011TWM21G221	0	0	99.94479			0.8545736

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G222	79.91058	19.12107
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G223	89.45707	9.614328
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G224	82.71955	16.7346
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G225	83.07941	16.45097
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G31	80.00055	19.52207
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G32	68.11492	30.80889
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G33	71.42371	28.7843
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G34	88.08758	11.13032
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G35	81.85986	17.51705
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G36	80.74027	18.6027
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G37	90.00687	9.027492
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G38	84.90874	14.54375
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G39	70.51405	29.56675
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G310	65.67582	33.65504
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G311	76.80173	21.44885
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G312	74.47259	24.05049
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G313	85.71844	14.12318
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G314	84.67883	14.75892
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G315	72.83319	25.97727
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G316	83.47927	16.11843
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G317	83.34931	16.04018
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G318	81.99982	16.47053
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G319	82.8495	16.29448
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G320	72.03348	26.79884
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G321	84.03906	14.75892
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G322	91.44634	7.149617
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G323	77.52147	20.64684
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G324	80.04053	19.7079
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G325	76.8717	20.8229
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G41	58.77836	40.07111
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G42	78.71102	18.85699
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G43	73.12309	26.25113
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G44	70.05421	29.54719
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G45	64.85612	34.64288
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G46	74.81245	24.18742
Henderson	North Henderson Ck	Mid N Henderson	582809	7031500	7	YGP2011TWM21G47	86.32822	13.23315
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G21	75.81579	22.83972

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM21G222	0.0405	0	99.07215			0.9171473
YGP2011TWM21G223	0.0554	0.2004	99.32719	BiTe	BiTe	0.9032001
YGP2011TWM21G224	0.0296	0	99.48376			0.8415168
YGP2011TWM21G225	0.0201	0	99.55048	Uti oxide	UTiO	0.8765618
YGP2011TWM21G31	0.0108	0	99.53342			0.8495551
YGP2011TWM21G32	0.0223	0	98.94611			0.8965475
YGP2011TWM21G33	0.0169	0.0228	100.2477			0.8953639
YGP2011TWM21G34	0.033	0	99.25089			0.8640688
YGP2011TWM21G35	0.0308	0	99.40771			0.9170687
YGP2011TWM21G36	0.0157	0	99.35867			0.8659788
YGP2011TWM21G37	0.0409	0.0077	99.08295			0.9027144
YGP2011TWM21G38	0.041	0	99.49349			0.9010711
YGP2011TWM21G39	0.0256	0.0992	100.2056	AgTe/AgTeS/FeS2 Ag2S	AgTeS	0.9132714
YGP2011TWM21G310	0.0109	0.0375	99.37926			0.8494763
YGP2011TWM21G311	0.0289	0.0425	98.32198			0.8711689
YGP2011TWM21G312	0.0332	0	98.55628	PbS/AgTe, PbS/BiS tr Sb	AgTe	0.8733672
YGP2011TWM21G313	0.0274	0.0609	99.92992			0.8963697
YGP2011TWM21G314	0.0325	0	99.47025			0.9004348
YGP2011TWM21G315	0.0104	0.3425	99.16335	YPO4		0.8678911
YGP2011TWM21G316	0.0296	0.0504	99.6777			0.9214777
YGP2011TWM21G317	0.0459	0	99.43539			0.8565726
YGP2011TWM21G318	0.0218	0	98.49214			0.8785703
YGP2011TWM21G319	0.0173	0.0875	99.24879			0.9055888
YGP2011TWM21G320	0.0292	0	98.86152			0.9116721
YGP2011TWM21G321	0.0271	0	98.82509	AgTes/CuSbS, CuAgTeS/CuSbS, CuAgS	AgTeS	0.886634
YGP2011TWM21G322	0.0652	0	98.66116			0.8440269
YGP2011TWM21G323	0.0086	0	98.17691			0.8983271
YGP2011TWM21G324	0.0003	0	99.74874			0.8470836
YGP2011TWM21G325	0.0309	0	97.72549			0.9642329
YGP2011TWM21G41	0	0.2362	99.08567			0.9083724
YGP2011TWM21G42	0.0243	0.9406	98.53291	AgTe	AgTe	0.8915824
YGP2011TWM21G43	0.0038	0.0673	99.44531	ZnS	Sphalerite	0.8391995
YGP2011TWM21G44	0.0128	0	99.6142			0.8685222
YGP2011TWM21G45	0.0138	0	99.51281			0.8087037
YGP2011TWM21G46	0.0163	0.7795	99.79568			0.9015634
YGP2011TWM21G47	0.0264	0	99.58777			0.922519
YGP2011TWM24G21	0.0115	0	98.667	CuFeS2, FeS2	Chalcopyrite	0.9441412

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G22	59.51725	41.10952
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G23	89.86764	9.832255
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G24	57.90244	41.70301
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G25	70.09876	29.38796
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G26	55.96667	42.40531
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G27	66.62843	33.49298
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G28	78.35335	20.624
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G29	83.95001	14.99567
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G210	65.32455	34.36344
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G211	80.32923	19.38755
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G212	85.37426	14.145
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G213	73.00743	26.70734
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G214	76.79871	22.19676
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G215	85.89581	13.64052
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G11	73.1679	25.86655
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G12	63.49911	35.88675
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G13	70.2793	28.78457
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G14	70.5501	28.46804
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G15	67.92229	31.35639
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G16	67.95237	31.41574
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G17	63.46902	35.62957
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G18	81.35228	17.41912
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G19	80.95108	18.22034
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G110	78.61412	20.47562
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G111	64.99356	34.44257
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G112	80.66022	17.77522
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G113	71.91417	28.10205
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G114	73.93018	25.43132
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G115	86.43742	12.58212
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G116	76.3875	21.90001
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G117	88.5136	10.53456
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G118	73.02748	25.41154
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G119	67.95237	30.81235
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM24G120	81.0915	17.36966
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G52	72.93073	25.56013
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G53	73.21216	25.7092
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G54	59.52258	39.99981

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM24G22	0.0025	0	100.6293	FeS2	Pyrite	0.9122876
YGP2011TWM24G23	0.0479	0	99.74779			0.8808573
YGP2011TWM24G24	0.0163	0.037	99.65875	CaCO3	Calcite	0.9091601
YGP2011TWM24G25	0.0207	0	99.50742	FeS2	Pyrite	0.966324
YGP2011TWM24G26	0.0072	0.0794	98.45859			0.9373198
YGP2011TWM24G27	0.0091	0	100.1305			0.9171767
YGP2011TWM24G28	0.0246	0	99.00195			0.8919641
YGP2011TWM24G29	0.0364	0.0307	99.01279			0.9242452
YGP2011TWM24G210	0.0338	0	99.72179			0.9533724
YGP2011TWM24G211	0.0265	0.0572	99.80048			0.9210835
YGP2011TWM24G212	0.0338	0	99.55305	FeS2	Pyrite	0.8946316
YGP2011TWM24G213	0.0224	0.0006	99.73777			0.8681184
YGP2011TWM24G214	0.0206	0	99.01608			0.880167
YGP2011TWM24G215	0.0372	0	99.57354			0.8716163
YGP2011TWM24G11	0.0154	0	99.04985	AgTe/AgTeS	AgTeS	0.8443541
YGP2011TWM24G12	0.0152	0	99.40105	AgS, PbS, AgS/CuAgSbS, AgS/PbS	AgS	0.9030186
YGP2011TWM24G13	0.0196	0.0691	99.15257			0.8668864
YGP2011TWM24G14	0.0112	0.0851	99.11444	Texture : Au rich tracks , sponge rim 50 um		0.9224526
YGP2011TWM24G15	0	0	99.27868			0.9065487
YGP2011TWM24G16	0.0196	0	99.38771			0.8186672
YGP2011TWM24G17	0.0116	0	99.11018			0.9804266
YGP2011TWM24G18	0.0202	0	98.7916			0.8769377
YGP2011TWM24G19	0.0104	0	99.18182			0.8407012
YGP2011TWM24G110	0.023	0	99.11275			0.8519353
YGP2011TWM24G111	0.0016	0.4331	99.87083			0.8650559
YGP2011TWM24G112	0.0289	0.0578	98.52213			0.8515817
YGP2011TWM24G113	0.0231	0	100.0393			0.890801
YGP2011TWM24G114	0.0298	0.0888	99.48009	CeLaPO4		0.8857092
YGP2011TWM24G115	0.0255	0	99.04504			0.9088546
YGP2011TWM24G116	0.0289	0.5694	98.88581			0.8446436
YGP2011TWM24G117	0.031	0	99.07916			0.8565924
YGP2011TWM24G118	0.0204	0.0033	98.46272			0.8788661
YGP2011TWM24G119	0.0087	0.0587	98.83212	FeAsS	FeAsS	0.935336
YGP2011TWM24G120	0.0287	0.2243	98.71416	PbS	Galena	0.8400481
YGP2011TWM23G52	0.0158	0	98.50665			0.8974209
YGP2011TWM23G53	0.0209	0.1718	99.11405	CuAgS	AgS	0.9383776
YGP2011TWM23G54	0	0.021	99.54339	FeS2	Pyrite	0.9262733

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G55	72.02614	26.86198
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G57	57.83399	41.34142
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G58	69.76464	29.04831
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G59	75.70483	23.20486
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G510	69.9556	28.91912
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G511	68.71932	29.68433
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G512	68.14642	30.13153
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G514	68.83994	30.38992
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G515	68.84998	30.82718
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G516	92.63087	6.817359
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G517	71.52358	27.9154
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G518	79.85593	18.84215
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G519	82.29835	17.40116
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G520	80.75048	17.96762
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G521	61.44233	36.01474
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G522	74.50875	25.2123
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G523 - Phase 1	69.90536	30.1216
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G523 - Phase 2	44.42583	56.13887
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G524	77.41351	21.95269
Henderson	North Henderson Ck	Upper N Henderson	588699	7038373	7	YGP2011TWM23G525	53.3512	45.82338
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G71	94.93528	4.321965
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G72	84.33561	14.35687
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G73	84.55643	13.87003
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G74	69.00826	30.34318
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G75	70.85516	28.63426
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G76	90.77973	8.44522
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G77	72.43107	26.5478
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G78	71.89907	27.1638
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G79	76.17507	23.54726
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G710	89.515	9.25
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G711	78.34319	19.22529
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G712	88.41087	10.24356
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G713	87.19632	11.99221
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G714	88.06959	11.51531
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G715	72.2805	26.93528
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G716	83.52257	15.94656
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G717	87.49744	11.52524

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM23G55	0.0247	0	98.91282			0.9302924
YGP2011TWM23G57	0.0173	0.0959	99.2886			0.9118709
YGP2011TWM23G58	0.0143	0.1782	99.00545			0.9283744
YGP2011TWM23G59	0.0225	0.0432	98.97539	FeS2	Pyrite	0.9358889
YGP2011TWM23G510	0.0072	0.1797	99.06163			0.8507888
YGP2011TWM23G511	0.0092	0.0883	98.50116			0.9137865
YGP2011TWM23G512	0.0208	0.4719	98.77065			0.9322781
YGP2011TWM23G514	0.0286	0	99.25845			0.9720357
YGP2011TWM23G515	0.015	0	99.69217			0.9681817
YGP2011TWM23G516	0.0641	0	99.51234			0.9530337
YGP2011TWM23G517	0.0192	0	99.45818			0.9615319
YGP2011TWM23G518	0.0305	0	98.72858			0.8922692
YGP2011TWM23G519	0.0309	0	99.73041	FeCaMgCO3	Calcite	0.9287209
YGP2011TWM23G520	0.0264	0	98.74449			0.9322024
YGP2011TWM23G521	0.029	1.38	98.86607			0.9417294
YGP2011TWM23G522	0.0264	0	99.74745	PbS	Galena	0.8698379
YGP2011TWM23G523 - Phase 1	0.0119	0	100.0389			0.8973273
YGP2011TWM23G523 - Phase 2	0.0173	0	100.582			0.8973273
YGP2011TWM23G524	0.0233	0	99.3895			0.9251665
YGP2011TWM23G525	0.01	0.0533	99.23789			0.8870868
YGP2011TWM23G71	0.0861	0.0432	99.38654			0.8576759
YGP2011TWM23G72	0.0367	0.1153	98.84448			0.8636605
YGP2011TWM23G73	0.0184	0.0034	98.44827			0.9019154
YGP2011TWM23G74	0.0125	0	99.36393			0.89563
YGP2011TWM23G75	0.032	0.0214	99.54282	PbS	Galena	0.9476594
YGP2011TWM23G76	0.0485	0	99.27345			0.8842109
YGP2011TWM23G77	0.0163	0.009	99.00417	Pyrrhotite	Pyrrhotite	0.9279
YGP2011TWM23G78	0.0174	0	99.08028			0.8691327
YGP2011TWM23G79	0.0279	0.0296	99.77984			0.8673075
YGP2011TWM23G710	0.0239	0	98.7889			0.8426443
YGP2011TWM23G711	0.0351	0.1168	97.72039			0.9102578
YGP2011TWM23G712	0.0377	0	98.69212			0.8470465
YGP2011TWM23G713	0.0315	0	99.22003			0.9174976
YGP2011TWM23G714	0.063	0	99.6479			0.9087512
YGP2011TWM23G715	0.0274	0.0688	99.31199	FeS2	Pyrite	0.867885
YGP2011TWM23G716	0.0355	0.007	99.51163	PbBiS	PbBiS	0.8626571
YGP2011TWM23G717	0.0444	0.0588	99.12589			0.8665563

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G718	68.3257	31.36654
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G719	83.0508	15.56901
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G720	74.85011	22.5239
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G721	86.81489	12.14125
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G722	86.81489	12.4095
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G723	91.72326	7.421858
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G724	81.41468	18.06284
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G725	85.17877	13.83029
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G81	64.2906	34.67508
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G82	88.85252	10.16407
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G83	89.07279	9.947779
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G84	76.46872	22.53902
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G85	90.24876	8.198719
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G86	85.63531	12.54156
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G87	85.84639	13.03845
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G88	82.2682	15.86079
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G89	82.2883	17.25209
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G810	72.55885	26.83217
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G811	90.83173	8.039714
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G812	86.11777	13.17758
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G813	87.31385	12.1341
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G814	71.62409	28.13403
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G815	88.00737	10.01734
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G818	88.39936	10.72293
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G819	80.83089	18.24588
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM23G820	76.23754	22.67815
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G71	88.10757	12.34311
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G72	89.73696	9.536083
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G73	84.14902	14.56331
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G74	62.63694	36.61856
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G75	82.87949	16.24557
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G76	71.69361	27.33677
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G77	80.75027	18.27016
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G78	86.55814	13.07666
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G79	74.79247	25.28285
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G710	89.83693	9.526302
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G711	49.36183	50.84933

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM23G718	0.0156	0.0677	99.77554			0.9189935
YGP2011TWM23G719	0.0211	0	98.64091			0.9173496
YGP2011TWM23G720	0.0186	0.036	97.42861			0.8674885
YGP2011TWM23G721	0.0421	0	98.99823	AgTe/BiTe	BiTe	0.8589689
YGP2011TWM23G722	0.0247	0	99.24909			0.8756861
YGP2011TWM23G723	0.0762	0	99.22132			0.9218284
YGP2011TWM23G724	0.0208	0	99.49831			0.9457368
YGP2011TWM23G725	0.0366	0	99.04566			0.885958
YGP2011TWM23G81	0.0131	0	98.97878			0.8758854
YGP2011TWM23G82	0.0396	0	99.05618			0.9192952
YGP2011TWM23G83	0.0337	0	99.05427			0.9336375
YGP2011TWM23G84	0.0193	0	99.02705			0.9194982
YGP2011TWM23G85	0.0388	0	98.48628	BiTe/BiS	BiTe	0.9318736
YGP2011TWM23G86	0.0315	0	98.20837			0.8984963
YGP2011TWM23G87	0.0363	0	98.92113			0.9098588
YGP2011TWM23G88	0.0409	0	98.16989			0.9136943
YGP2011TWM23G89	0.0261	0	99.56649			0.9218024
YGP2011TWM23G810	0.0307	0	99.42171			0.9245875
YGP2011TWM23G811	0.0187	0	98.89014			0.9718936
YGP2011TWM23G812	0.0256	0	99.32094	FeS2	Pyrite	0.9242837
YGP2011TWM23G813	0.0162	0	99.46415			0.9750979
YGP2011TWM23G814	0.0096	0	99.76772			0.9174301
YGP2011TWM23G815	0.038	0	98.06271			0.9154391
YGP2011TWM23G818	0.0566	0	99.17889			0.9704982
YGP2011TWM23G819	0.023	0	99.09977			0.9818991
YGP2011TWM23G820	0.003	0	98.91869	BiS	BiTe	0.9254186
YGP2011TWM21G71	0.0265	0	100.4772			0.9358726
YGP2011TWM21G72	0.0418	0	99.31484			0.8660245
YGP2011TWM21G73	0.0223	0	98.73463			0.9021531
YGP2011TWM21G74	0.0049	0	99.26041			0.8458253
YGP2011TWM21G75	0.0304	0	99.15547			0.8886807
YGP2011TWM21G76	0.0192	0	99.04958	Uti oxide	UTiO	0.9198891
YGP2011TWM21G77	0.0032	0	99.02363			0.8945927
YGP2011TWM21G78	0.0359	0	99.67069			0.891882
YGP2011TWM21G79	0.0296	0	100.1049			0.8657381
YGP2011TWM21G710	0.03	0	99.39323			0.9027045
YGP2011TWM21G711	0.0088	0.0317	100.2517			0.8724454

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G712	72.53329	27.34655
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G713	73.58292	26.56411
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G714	91.24641	8.147239
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G715	85.17864	14.09384
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G716	89.61701	9.594768
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G717	85.52851	14.15253
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G718	60.89758	38.62358
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G719	75.47221	21.21412
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G720	83.96909	15.65874
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G721	68.57475	30.23183
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G722	90.47669	9.056834
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G723	94.2553	4.74359
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G724	81.57997	17.75179
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G725	92.89581	6.983347
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G81	79.06089	20.60772
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G82	83.60922	15.82501
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G83	71.53367	27.04335
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G84	75.15234	24.23632
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G85	75.36226	23.894
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G86	89.637	10.26963
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G87	87.56776	11.66825
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G88	74.67251	25.40021
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G89	78.27119	21.50754
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G810	85.00871	14.20143
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G811	84.55887	15.11102
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G812	68.65472	30.10468
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G813	83.4093	16.84219
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G814	88.95725	9.624109
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G815	84.58887	14.62199
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G816	74.90243	24.12874
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G817	92.31602	7.609306
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G818	88.93726	10.63151
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G819	73.0731	26.03595
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G820	82.97945	16.47053
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G821	80.4104	19.45361
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G822	89.57703	9.673012
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G823	90.75659	8.929687

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM21G712	0.0103	0.028	99.91814			0.9545483
YGP2011TWM21G713	0.0107	0.0153	100.173			0.908768
YGP2011TWM21G714	0.037	0	99.43065			0.8722984
YGP2011TWM21G715	0.0276	0	99.30009			0.9265942
YGP2011TWM21G716	0.033	0	99.24477			0.9244928
YGP2011TWM21G717	0.0416	0	99.72264			0.9352156
YGP2011TWM21G718	0.0115	0.117	99.64966	Uti oxide	UTiO	0.9200945
YGP2011TWM21G719	0.0352	0.0031	96.72463			0.9511981
YGP2011TWM21G720	0.0362	0	99.66402			0.914862
YGP2011TWM21G721	0.0077	0	98.81428			0.9381066
YGP2011TWM21G722	0.0797	0	99.61322			0.8438754
YGP2011TWM21G723	0.0907	0	99.08959			0.8898338
YGP2011TWM21G724	0.0406	0.041	99.41336			0.9545491
YGP2011TWM21G725	0.0812	0	99.96035			0.9058801
YGP2011TWM21G81	0.0259	0.0325	99.72701			0.9067607
YGP2011TWM21G82	0.0127	0	99.44694	FeS2	Pyrite	0.9503342
YGP2011TWM21G83	0.0045	0.0136	98.59513			0.935993
YGP2011TWM21G84	0.0301	0.0916	99.51035			0.9548417
YGP2011TWM21G85	0.0201	0.1212	99.39757			0.9090293
YGP2011TWM21G86	0.0318	0	99.93843			0.8869748
YGP2011TWM21G87	0.0422	0.0386	99.31681			0.9443325
YGP2011TWM21G88	0.0225	0.0087	100.1039			0.8910916
YGP2011TWM21G89	0.0009	0	99.77962	AgTerS/AgTe	AgTeS	0.9454063
YGP2011TWM21G810	0.0203	0.0422	99.27264			0.8997745
YGP2011TWM21G811	0.004	0	99.67389			0.953839
YGP2011TWM21G812	0.0396	0	98.799			0.8287162
YGP2011TWM21G813	0.0246	0	100.2761	AgTerS/AgTe	AgTeS	0.9048934
YGP2011TWM21G814	0.0519	0	98.63326			0.9101563
YGP2011TWM21G815	0.0321	0	99.24296			0.9157857
YGP2011TWM21G816	0.0064	0	99.03757			0.8924723
YGP2011TWM21G817	0.0678	0	99.99313	AgTeS	AgTeS	0.9069728
YGP2011TWM21G818	0.0332	0	99.60197			0.8921591
YGP2011TWM21G819	0.0298	0.0865	99.22536			0.8503252
YGP2011TWM21G820	0.0306	0	99.48058			0.9172847
YGP2011TWM21G821	0.0273	0	99.89131			0.9156664
YGP2011TWM21G822	0.0563	0	99.30634			0.8807929
YGP2011TWM21G823	0.0576	0	99.74388			0.8418136

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G824	70.48405	30.26117
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G825	74.41261	24.98943
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G91	87.34784	12.03014
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G92	83.89912	14.93497
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G93	81.95982	17.88872
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G94	80.30045	19.12107
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G95	84.01907	15.00344
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G96	79.49074	20.2654
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G97	77.6814	21.40973
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G98	80.84024	17.31166
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G99	68.02496	31.95321
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G910	76.90169	23.02353
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G911	77.32153	22.43669
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G912	84.60886	15.19905
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G913	85.21863	14.62199
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G914	83.86913	15.023
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G915	76.95168	22.45625
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G916	82.13976	17.02802
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G917	70.84393	27.85514
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G918	88.19904	10.97813
Henderson	North Henderson Ck	N Henderson L Trib	582868	7031342	7	YGP2011TWM21G919	81.89053	17.91015
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM3G31	84.5859	15.8238
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM3G32	76.3921	23.6978
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM3G33	67.3576	25.881
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM3G34	66.8425	32.8551
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM3G35	95.2426	6.332
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM3G36	88.1979	11.7153
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM3G37	81.3193	19.5662
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM1G11	84.723	15.28
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM1G12	82.772	18.3502
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM1G13	81.1993	18.2099
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM1G14	88.3811	12.6557
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM1G15	77.658	22.0674
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM5G31	75.5713	24.8439
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM5G32	72.2079	26.724
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM5G33	73.3393	10.4269
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM5G34	79.3726	20.4797

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM21G824	0.0349	0.0088	100.7889			0.914985
YGP2011TWM21G825	0.0163	0	99.41833			0.9389812
YGP2011TWM21G91	0.0644	0	99.44238			0.8416057
YGP2011TWM21G92	0.0371	0	98.87119			0.8557174
YGP2011TWM21G93	0.0258	0.0544	99.92874			0.8651591
YGP2011TWM21G94	0.0203	0.0165	99.45832			0.9177182
YGP2011TWM21G95	0.0138	0	99.03632			0.8734235
YGP2011TWM21G96	0.0357	0	99.79183			0.941013
YGP2011TWM21G97	0.0191	0.0695	99.17973			0.92347
YGP2011TWM21G98	0.0304	0	98.1823			0.8331053
YGP2011TWM21G99	0.0232	0	100.0014			0.9233184
YGP2011TWM21G910	0.0178	0	99.94302			0.8921119
YGP2011TWM21G911	0.0388	0	99.79703			0.8818923
YGP2011TWM21G912	0.0277	0.0741	99.90971			0.9171765
YGP2011TWM21G913	0.0234	0	99.86402			0.9091277
YGP2011TWM21G914	0.0269	0	98.91902			0.8803483
YGP2011TWM21G915	0.0321	0.0957	99.53573			0.9698969
YGP2011TWM21G916	0.0142	0.0367	99.21868			0.8794112
YGP2011TWM21G917	0.0104	0.0049	98.71436			0.7248699
YGP2011TWM21G918	0.0326	0	99.20978			0.8483898
YGP2011TWM21G919	0.0185	0.0576	99.87678			0.9080689
YGP2010TWM3G31	0.0111	0	100.4208	AgTe	AgTe	0.8776399
YGP2010TWM3G32	0.0124	0.0849	100.1872			0.8895666
YGP2010TWM3G33	0.019	6.779	100.0366	BaSO4	Barite	0.9503499
YGP2010TWM3G34	0	0.0744	99.772	CuFeS2	Chalcopyrit	0.8841073
YGP2010TWM3G35	0.0084	0	101.583			0.8768787
YGP2010TWM3G36	0.0356	0.0747	100.0235			0.8847289
YGP2010TWM3G37	0.003	0.0172	100.9057			0.8951013
YGP2010TWM1G11	0.0166	0	100.0196	Kspar		0.9481044
YGP2010TWM1G12	0.0248	0	101.147			0.8607489
YGP2010TWM1G13	0.0184	0	99.4276	AgTe	AgTe	0.908629
YGP2010TWM1G14	0.0161	0.5995	101.6524			0.9435388
YGP2010TWM1G15	0.0218	0.0726	99.8198	PbS	Galena	0.8673594
YGP2010TWM5G31	0.0213	0	100.4365			0.8477342
YGP2010TWM5G32	0.0069	0	98.9388			0.9459102
YGP2010TWM5G33	0.022	0	83.7882			0.8196264
YGP2010TWM5G34	0.0044	0	99.8567			0.8894314

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM5G35	73.9966	26.1395
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2010TWM5G36	80.904	18.2327
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G11	80.9217	18.32963
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G12	69.19904	30.7565
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G13	75.57986	23.92172
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G16	79.78473	19.44204
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G17	77.35394	22.41847
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G18	77.1383	22.62893
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G19	82.58797	16.98673
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G111	84.75412	14.41116
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G112	88.60613	10.83342
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G113	84.40126	15.10265
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G114	87.62598	11.69529
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G116	82.60757	16.65602
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G117	73.46272	26.28684
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G118	81.96067	17.55796
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM11G119	75.62887	23.98185
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G31	68.52273	30.88678
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G32	85.82249	13.23862
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G33	72.0807	26.76788
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G36	78.02044	22.24811
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G37	67.81702	31.65845
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G38	86.62621	12.22644
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G39	74.40367	24.64328
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G310	73.06085	25.92606
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G312	86.16554	12.33667
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G313	79.52008	19.92308
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G314	73.88418	25.92606
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G315	72.27673	27.19881
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G316	86.03812	11.56501
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G317	75.10938	22.94962
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G318	77.56957	21.276
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G319	79.10841	19.23158
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G320	85.16578	13.85997
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G41	73.90379	24.68337
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G42	81.44118	17.55796
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G43	72.48256	26.95829

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2010TWM5G35	0.0156	0	100.1517			0.9109758
YGP2010TWM5G36	0.0199	0	99.1566			0.8699641
YGP2011TWM11G11	0.0228	0	99.27413			0.9037609
YGP2011TWM11G12	0.0059	0	99.96143			0.8294974
YGP2011TWM11G13	0.0132	0	99.51478			0.84768
YGP2011TWM11G16	0.0179	0	99.24467			0.9069292
YGP2011TWM11G17	0.0172	0	99.7896			0.879444
YGP2011TWM11G18	0.0272	0	99.79443	PbS	Galena	0.8816832
YGP2011TWM11G19	0.0277	0	99.60241			0.9413468
YGP2011TWM11G111	0.0201	0	99.18539			0.9579826
YGP2011TWM11G112	0.0696	0	99.50916			0.8716356
YGP2011TWM11G113	0.0265	0	99.53041			0.8575854
YGP2011TWM11G114	0.0448	0	99.36607			0.9222639
YGP2011TWM11G116	0.0285	0	99.29209			0.8639941
YGP2011TWM11G117	0.0288	0	99.77835			0.9109659
YGP2011TWM11G118	0.0409	0	99.55953			0.9436256
YGP2011TWM11G119	0	0	99.61072			0.9535697
YGP2011TWM12G31	0.0133	0	99.42281			0.9519637
YGP2011TWM12G32	0.0355	0	99.09661	pyrrhotite	Pyrrhotite	0.8757741
YGP2011TWM12G33	0.0064	0	98.85497			0.8480304
YGP2011TWM12G36	0.0087	0	100.2772			0.9315826
YGP2011TWM12G37	0.0146	0	99.49007	FeAsS	FeAsS	0.8928499
YGP2011TWM12G38	0.0358	0	98.88844			0.8593095
YGP2011TWM12G39	0.0148	0	99.06175			0.8522309
YGP2011TWM12G310	0.0134	0	99.00031			0.9112988
YGP2011TWM12G312	0.0027	0	98.50492			0.8731678
YGP2011TWM12G313	0.0226	0	99.46576			0.7317271
YGP2011TWM12G314	0.0105	0	99.82073	FeAsS	FeAsS	0.9219595
YGP2011TWM12G315	0	0	99.47553			0.8733027
YGP2011TWM12G316	0.0515	0	97.65462			0.8951516
YGP2011TWM12G317	0.01	0	98.069			0.9643495
YGP2011TWM12G318	0.0322	0	98.87778			0.9207159
YGP2011TWM12G319	0.0267	0	98.3667			0.9608187
YGP2011TWM12G320	0.035	0	99.06075			0.8763322
YGP2011TWM12G41	0.0037	0	98.59086			0.8926987
YGP2011TWM12G42	0	0	98.99915			0.883
YGP2011TWM12G43	0.034	0	99.47485			0.9579605

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G44	75.74648	22.95964
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G45	66.17036	33.3922
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G46	69.58129	29.71425
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G47	81.18635	17.94881
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G48	71.88466	27.29903
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G410	74.08022	25.23456
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G411	46.57703	54.0168
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G412	77.66759	21.81717
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G413	77.58918	21.74702
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G414	82.25471	16.58586
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G415	88.89038	10.02167
Henderson	Moosehorn Ck	Lower Moosehorn	587692	7029889	7	YGP2011TWM12G416	82.33313	16.78629
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G51	84.24899	15.19905
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G52	81.95982	17.2921
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G53	74.4326	24.96987
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G54	88.41745	10.54348
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G55	77.09162	22.14327
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G56	72.93315	26.83796
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G57	83.80914	15.74676
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G58	66.46553	33.6746
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G59	70.16418	28.28549
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G510	85.99834	13.4581
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G511	87.32785	12.20619
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G512	84.89875	14.48507
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G513	88.06758	11.19878
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G514	80.53035	19.26778
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G515	61.00754	39.18108
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G516	78.13124	21.46841
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G517	83.91911	15.63918
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G518	79.02091	19.12107
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G519	68.40482	31.25879
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G520	79.55072	20.17737
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G521	80.88023	18.49511
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G522	79.08089	20.62728
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G523	81.34006	17.84959
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G524	80.29044	19.57098
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G61	76.50184	21.99656

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM12G44	0.0221	0	98.72822			0.8176323
YGP2011TWM12G45	0.0114	0	99.57396	FeAsS	FeAsS	0.9498353
YGP2011TWM12G46	0.0201	0	99.31564			0.9163692
YGP2011TWM12G47	0.0154	0	99.15056			0.9419264
YGP2011TWM12G48	0.019	0	99.20268			0.8622022
YGP2011TWM12G410	0.0245	0	99.33928			0.9203281
YGP2011TWM12G411	0.0079	0	100.6017			0.9064484
YGP2011TWM12G412	0.0091	0	99.49386			0.9283687
YGP2011TWM12G413	0.012	0	99.34821			0.9157604
YGP2011TWM12G414	0.0055	0	98.84608			0.9300786
YGP2011TWM12G415	0.0241	0	98.93615			0.9534179
YGP2011TWM12G416	0.0305	0	99.14993			0.9342175
YGP2011TWM21G51	0.0403	0	99.48833			0.9061764
YGP2011TWM21G52	0.0222	0.2849	99.55902	AgTe	AgTe	0.9574791
YGP2011TWM21G53	0	0	99.40247			0.916791
YGP2011TWM21G54	0.0737	0	99.03464			0.9176864
YGP2011TWM21G55	0	0.0013	99.23619	FeAsS	FeAsS	0.9226587
YGP2011TWM21G56	0.009	0	99.78012			0.9536214
YGP2011TWM21G57	0.0372	0.0737	99.66681			0.8881677
YGP2011TWM21G58	0.011	0	100.1511			0.894308
YGP2011TWM21G59	0.0265	0	98.47617			0.9479729
YGP2011TWM21G510	0.0316	0	99.48805	FeO: hematite	Hematite	0.9089856
YGP2011TWM21G511	0.0188	0.027	99.57983			0.9211759
YGP2011TWM21G512	0.0105	0.0055	99.39982	AuAgTe, AuAgTe/AgTe, AgTe	AgTe	0.9004839
YGP2011TWM21G513	0.0494	0	99.31577			0.9373192
YGP2011TWM21G514	0.0143	0	99.81242			0.9301933
YGP2011TWM21G515	0	0	100.1886			0.9188656
YGP2011TWM21G516	0.0071	0	99.60676			0.9349113
YGP2011TWM21G517	0.0173	0	99.57558			0.9094835
YGP2011TWM21G518	0.0197	0.0048	98.16648			0.927244
YGP2011TWM21G519	0.0329	0.0339	99.7304			0.9427144
YGP2011TWM21G520	0.0355	0.0009	99.7645			0.935971
YGP2011TWM21G521	0.0345	0	99.40984			0.9333216
YGP2011TWM21G522	0.0074	0	99.71557			0.8649092
YGP2011TWM21G523	0.0252	0	99.21485			0.8574533
YGP2011TWM21G524	0.0321	0	99.89352			0.9234248
YGP2011TWM21G61	0.0331	0.073	98.6045			0.9075298

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G62	79.8706	20.35342
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G63	83.89912	15.49247
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G64	74.95242	24.53952
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G65	70.27413	28.97013
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G66	77.52147	21.84008
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G67	77.74138	21.96722
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G68	86.948	11.82474
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G69	71.27377	28.55935
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G610	81.73991	17.3899
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G611	84.15902	16.31404
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G612	78.36115	20.90114
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G613	75.93204	23.43431
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G614	75.47221	24.23632
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G615	77.57144	21.9281
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G616	81.71992	17.30188
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G617	86.55814	12.58763
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM21G618	79.28082	20.35342
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G31	85.82628	12.9987
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G32	78.43873	19.92537
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G33	79.04179	20.5117
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G34	94.03802	4.829791
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G35	87.67569	11.50802
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G36	71.84521	27.1303
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G37	78.25781	21.03841
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G38	62.25647	36.56132
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G39	78.2377	21.10797
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G310	81.96667	17.05334
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G312	73.02119	26.22596
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G313	77.98643	20.94897
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G314	80.22782	19.55767
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G315	80.17757	18.84215
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G316	74.31779	25.39118
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G317	72.83022	26.51416
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G318	77.57433	21.64462
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G319	75.50381	23.64212
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G320	75.4234	24.3179
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G322	85.39408	13.55521

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM21G62	0.0124	0.0048	100.2412			0.9138954
YGP2011TWM21G63	0.0377	0	99.42928			0.852017
YGP2011TWM21G64	0.0254	0	99.51733			0.8868391
YGP2011TWM21G65	0.025	0	99.26926			0.9179475
YGP2011TWM21G66	0.0197	0.0873	99.46854			0.8821464
YGP2011TWM21G67	0.0106	0	99.7192			0.8055509
YGP2011TWM21G68	0.0314	0	98.80415			0.9089339
YGP2011TWM21G69	0.0093	0.0461	99.88851			0.8786557
YGP2011TWM21G610	0.0238	0.0281	99.18171			0.9074072
YGP2011TWM21G611	0.0459	0	100.519			0.9688496
YGP2011TWM21G612	0.0247	0	99.28699			0.9237309
YGP2011TWM21G613	0.0204	0	99.38676			0.9494445
YGP2011TWM21G614	0.0256	0.0306	99.76474			0.9110393
YGP2011TWM21G615	0.0178	0	99.51734			0.9036877
YGP2011TWM21G616	0.0539	0	99.0757			0.9399178
YGP2011TWM21G617	0.0294	0	99.17517			0.9069349
YGP2011TWM21G618	0.0291	0	99.66334	FeS2, AgTeS/CuAgTeS	AgTeS	0.8641511
YGP2011TWM23G31	0.0407	0	98.86568			0.9287948
YGP2011TWM23G32	0.0276	0	98.3917			0.9530494
YGP2011TWM23G33	0.034	0.0345	99.62199			0.9144632
YGP2011TWM23G34	0.1342	0	99.00201			0.9560315
YGP2011TWM23G35	0.0323	0.0321	99.24811			0.8949352
YGP2011TWM23G36	0.0156	0	98.99112			0.8850526
YGP2011TWM23G37	0.0121	0	99.30832			0.8930912
YGP2011TWM23G38	0.01	0.0665	98.89429			0.8897844
YGP2011TWM23G39	0.0211	0	99.36678			0.9289768
YGP2011TWM23G310	0.0316	0	99.05161			0.9326438
YGP2011TWM23G312	0.0078	0	99.25495			0.8858568
YGP2011TWM23G313	0.0072	0	98.9426			0.9383128
YGP2011TWM23G314	0.0274	0.0009	99.81379			0.9368616
YGP2011TWM23G315	0.0202	0	99.03992			0.9458978
YGP2011TWM23G316	0.0297	0.0033	99.74197			0.9344268
YGP2011TWM23G317	0.0238	0.0729	99.44108			0.9088577
YGP2011TWM23G318	0.0156	0	99.23455			0.9543612
YGP2011TWM23G319	0.0244	0	99.17033			0.9493948
YGP2011TWM23G320	0.0323	0.0209	99.79449			0.9297137
YGP2011TWM23G322	0.0294	0	98.9787			0.9694387

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G323	67.99564	32.87438
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G324	87.10278	11.67696
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G325	84.62016	14.81732
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G46	68.01575	30.31042
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G49	69.25203	30.1216
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G410	73.60416	25.26199
Henderson	Moosehorn Ck	Upper Moosehorn	589097	7029037	7	YGP2011TWM23G411	75.64453	23.2148
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G61	81.69405	17.60353
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G62	59.85762	40.20279
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G63	66.57961	34.18027
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G64	81.89412	18.20578
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G65 - Phase 1	71.75113	27.98991
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G65 - Phase 2	68.47016	31.80088
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G66	78.83321	20.99984
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G67	65.82938	34.81214
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G68	68.12006	31.77127
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G69	94.96796	3.959067
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G610	73.84174	26.32138
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G611	73.74171	25.65001
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G612	85.44516	14.30595
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G613	78.34307	21.15781
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G614	80.33365	18.97588
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G615	68.12006	31.37635
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G616	66.24951	33.96307
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G617	62.41838	34.26913
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G618	79.60344	20.27911
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G619	72.19125	27.39753
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G620	61.43809	37.81353
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G621	84.43487	15.38211
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G622	81.65404	18.36375
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G623	89.39632	9.645906
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G624	80.10358	19.45965
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G625	71.80114	27.82207
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G71	86.85558	12.51894
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G72	67.42986	32.57098
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G73	59.16742	41.19009
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G74	63.29864	36.59915

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM23G323	0.0352	0	100.9052			0.9483838
YGP2011TWM23G324	0.0307	0	98.81044			0.9422404
YGP2011TWM23G325	0.0279	0	99.46538			0.968631
YGP2011TWM23G46	0.016	0	98.34216			0.9531297
YGP2011TWM23G49	0.0066	0	99.38023			0.9805648
YGP2011TWM23G410	0.0087	0.0062	98.88105			0.9738569
YGP2011TWM23G411	0.0194	0	98.87873	FeAsS	FeAsS	0.974127
YGP2011TWM20G61	0.0184	0	99.31599			0.8820896
YGP2011TWM20G62	0.0135	0.1203	100.1942	FeS2	Pyrite	0.9089998
YGP2011TWM20G63	0.0139	0.0018	100.7756	FeASS	FeAsS	0.9077839
YGP2011TWM20G64	0.0096	0	100.1095			0.9015843
YGP2011TWM20G65 - Phase 1	0.0224	0	99.76344			0.9537555
YGP2011TWM20G65 - Phase 2	0.0193	0	100.2903	TiO2	Rutile	0.9537555
YGP2011TWM20G66	0.0249	0	99.85795			0.9107371
YGP2011TWM20G67	0.017	0	100.6585			0.9064971
YGP2011TWM20G68	0	0	99.89132			0.9342788
YGP2011TWM20G69	0.0882	0	99.01524			0.8485339
YGP2011TWM20G610	0.0313	0	100.1944			0.9221298
YGP2011TWM20G611	0.0284	0	99.42012	PyRhootite	Pyrrhotite	0.9194703
YGP2011TWM20G612	0.0568	0	99.80791	FeS2/FeAsS	Pyrite	0.9028413
YGP2011TWM20G613	0.0276	0	99.52848			0.9709956
YGP2011TWM20G614	0.0387	0	99.34822			0.938179
YGP2011TWM20G615	0.0048	0.1164	99.6176			0.9637846
YGP2011TWM20G616	0.0122	0	100.2248			0.9110209
YGP2011TWM20G617	0.0114	0.0205	96.71941			0.9468034
YGP2011TWM20G618	0.0137	0	99.89626			0.8969632
YGP2011TWM20G619	0.0175	0.0815	99.68778	AgTeS	AgTeS	0.8911369
YGP2011TWM20G620	0.0142	0	99.26582	FeS2	Pyrite	0.9333425
YGP2011TWM20G621	0.0294	0	99.84638			0.9107165
YGP2011TWM20G622	0.0201	0	100.0379			0.8858132
YGP2011TWM20G623	0.0192	0	99.06143			0.9279098
YGP2011TWM20G624	0.0257	0	99.58894			0.9543053
YGP2011TWM20G625	0.0272	0.0108	99.66122			0.8840789
YGP2011TWM20G71	0.0372	0	99.41172			0.9697201
YGP2011TWM20G72	0.0067	0	100.0075			0.9619847
YGP2011TWM20G73	0.0308	0	100.3883			0.8589096
YGP2011TWM20G74	0.0131	0.043	99.95389	FeS2	Pyrite	0.994566

B 3. Henderson Creek Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G75	70.88087	29.15492
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G76	79.34336	20.49632
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G77	68.9203	31.36647
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G78	68.26009	32.06746
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G79	75.65228	23.81364
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G710	77.17272	22.7671
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G711	76.45251	23.32986
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM20G712	66.98972	33.27196
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G11	77.67484	21.8235
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G12	83.87637	15.80117
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G13	71.77486	27.71664
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G14	82.10738	17.69929
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G15	85.52475	14.40987
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G16	78.38847	20.65083
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G17	70.22699	29.13775
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G18	78.99154	20.36264
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G19	81.39375	18.20612
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G110	41.93316	58.02705
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G111	79.04179	20.48189
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G112	74.38814	24.22845
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G113	67.77452	32.09922
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G114	79.19257	19.73655
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G115	77.04163	21.66449
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G116	64.03551	34.86195
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G117	55.55239	44.22339
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G118	75.83549	23.04585
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G119	71.70449	27.79614
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G120	53.20044	46.43953
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G123	71.88541	26.99118
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G124	76.54913	22.56884
Henderson	Goldengate	Lower Goldengate	593667	7035323	7	YGP2011TWM23G125	83.95678	14.44962

B 3. Henderson Creek Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Inclusions	Hofmann
YGP2011TWM20G75	0.0153	0.1119	100.163			0.8594825
YGP2011TWM20G76	0.0235	0	99.86317			0.9684598
YGP2011TWM20G77	0.0234	0	100.3102			0.9305495
YGP2011TWM20G78	0.0153	0	100.3428			0.9321759
YGP2011TWM20G79	0.0184	0	99.48431			0.9817299
YGP2011TWM20G710	0.0237	0.0018	99.96532			0.968468
YGP2011TWM20G711	0.018	0	99.80038			0.9065497
YGP2011TWM20G712	0.0183	0	100.28	AgTeS	AgTeS	0.9101388
YGP2011TWM23G11	0.0203	0.1395	99.65814	Au tracks		0.9441731
YGP2011TWM23G12	0.0219	0	99.69943			0.923227
YGP2011TWM23G13	0.0193	0.0103	99.5211			0.902024
YGP2011TWM23G14	0.0289	0	99.83558			0.9133663
YGP2011TWM23G15	0.0204	0	99.95502			0.8750398
YGP2011TWM23G16	0.0185	0	99.05781			0.8954008
YGP2011TWM23G17	0.0041	0	99.36884	PbS	Galena	0.9559699
YGP2011TWM23G18	0.0072	0.0708	99.43217			0.8784026
YGP2011TWM23G19	0.0712	0	99.67107			0.9446533
YGP2011TWM23G110	0.0157	0	99.97592			0.9911363
YGP2011TWM23G111	0.0233	0	99.54698	FeS2	Pyrite	0.9250766
YGP2011TWM23G112	0.0139	0	98.63049			0.9002156
YGP2011TWM23G113	0.017	0	99.89075			0.9130327
YGP2011TWM23G114	0.0147	0	98.94382			0.8991359
YGP2011TWM23G115	0.0201	0	98.72622			0.9709006
YGP2011TWM23G116	0.0254	0.0047	98.92756	pyrrhotite	Pyrrhotite	0.917668
YGP2011TWM23G117	0.0228	0.0882	99.88679			0.9029209
YGP2011TWM23G118	0.0219	0	98.90324			0.9203723
YGP2011TWM23G119	0.0058	0	99.50643			0.884525
YGP2011TWM23G120	0.0084	0	99.64837			0.9168328
YGP2011TWM23G123	0.0229	0	98.89949			0.9646905
YGP2011TWM23G124	0.0239	0	99.14187			0.9241418
YGP2011TWM23G125	0.0321	0	98.4385			0.9657423

B 4. Tenmile Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-1	82.2638	17.5493	0	0	99.8131		0.947724
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-2	79.5805	19.7909	0.019	0.0415	99.3904		0.895138
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-3	83.5793	14.6251	0.0463	0	98.2507		0.87851
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-4	81.3118	17.9584	0.0048	0	99.275		0.924612
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-5	77.283	21.6897	0.0068	0	98.9795		0.931349
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-6	80.9193	18.398	0.01	0.0792	99.3273		0.959965
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-7	78.0105	21.3582	0.0027	0	99.3714		0.926222
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-8	84.174	15.7965	0.0546	0.1491	100.0251		0.932875
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-9	66.6814	31.3428	0.0028	0.0642	98.027		0.894477
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-10	93.0972	6.4276	0.0529	0.0086	99.5777		0.921137
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-11-1	76.2256	23.3755	0.0141	0.0473	99.6152		0.847356
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-11-2	65.5513	33.8922	0	0	99.4435		0.847356
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-12	75.7899	22.7267	0.0131	0	98.5297	Pyrite	0.870032
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-13	91.6451	8.0775	0.0646	0	99.7872		0.926864
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-14	78.2956	20.9069	0.0013	0	99.2038		0.861305
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-15	87.9922	11.1037	0.0129	0	99.1088	Arsenopyrite	0.948378
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-16	80.6249	18.402	0	0	99.0269	Pyrite	0.878822
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-17	84.0604	15.3688	0.0287	0.0715	99.4579		0.9102
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-18	77.2228	21.5469	0.0131	0.0537	98.7828		0.911864
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-19	79.6292	19.9794	0	0	99.6086	Pyrite	0.971516
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-20	75.9026	23.3727	0.0488	0	99.3241		0.909759
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-21	76.5573	21.7158	0	0.2063	98.2731		0.899853
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-22	81.7578	16.864	0.0285	0.0691	98.6503		0.939979
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-23	79.0342	19.8421	0.0015	0	98.8778		0.857349
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-24	65.7964	32.4145	0.0088	0.078	98.2197		0.926654
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G2-25	90.7732	9.6511	0.0278	0	100.4521		0.989312
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-1	80.0974	19.679	0	0	99.7764		0.910911
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-2	85.6879	13.4797	0.0321	0.0042	99.1997		0.961648
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-3	79.313	20.8477	0	0	100.1607		0.986981
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-4	76.2747	21.4379	0	0	97.7126		0.914049
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-5	74.9368	23.5843	0.0215	0	98.5426		0.918109
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-6	80.5414	19.6567	0	0	100.1981		0.936281
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-7	77.9166	21.3237	0.0339	0	99.2742		0.920514
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-8	78.5512	20.8991	0	0	99.4503		0.935947
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-9	75.8417	23.5752	0.0106	0	99.4275		0.947487
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-10	82.7643	16.8678	0.0084	0.1382	99.6405		0.984603
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-11	68.499	30.5258	0.0245	0.0966	99.0493		0.884931
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-12	83.656	15.9325	0.0132	0	99.6017	Pyrite	0.968824
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-13	78.851	20.1049	0.0251	0	98.981		0.938118
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-14	81.6907	18.3277	0.0336	0	100.052		0.951632

B 4. Tenmile Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-15	85.1299	15.2053	0.0117	0	100.3469		0.961169
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-16	78.3104	21.1553	0	0.0724	99.4657		0.868374
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-17	74.2385	24.8922	0.0071	0	99.1378		0.986002
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-18	83.5242	15.7293	0	0.0567	99.2535		0.982701
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-19	79.1068	19.7906	0.0044	0	98.9018		0.936751
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-20	80.0919	19.9671	0	0.1287	100.059		0.960901
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-21	70.485	28.9298	0	0	99.4148		0.972447
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-22	77.0727	21.5101	0.0699	0	98.6527		0.940727
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-23	78.0776	21.1561	0	0.0455	99.2337		0.96717
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-24	85.655	13.7849	0.0433	0	99.4832		0.975454
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G3-25	80.4659	18.7018	0.0084	0	99.1761		0.911124
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-1	75.958	23.2019	0	0.0123	99.1599		0.925016
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-2	85.4262	13.9976	0.0025	0	99.4263		0.874016
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-3	84.5671	14.8974	0.0393	0	99.5038		0.874529
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-4	79.876	20.3	0.0402	0.0311	100.2162		0.863333
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-5-1	72.442	27.2534	0.013	0	99.7084		0.874344
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-5-2	51.4861	46.8111	0.0073	0.0191	98.3045		0.874344
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-6	74.5775	24.6494	0.0059	0	99.2328		0.897517
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-7	77.5866	21.1504	0	0.0559	98.737	Arsenopyrite	0.989608
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-8	88.8295	10.3577	0.0061	0.0576	99.1933		0.868229
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-9	75.59	22.4422	0	0.0021	98.0322	Arsenopyrite	0.962244
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-10	75.496	22.3066	0	0	97.8026		0.946284
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-11	80.8266	18.4015	0	0	99.2281		0.85139
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-12	87.3845	13.0162	0.035	0	100.4357		0.921558
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-13	78.5569	20.8466	0.0157	0	99.4192		0.891185
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-14	72.064	26.32	0.0173	0.0204	98.4013		0.930197
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-15	89.7463	9.411	0.0061	0.0192	99.1634		0.892241
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-16	71.757	27.6673	0.0238	0.0366	99.4481		0.827195
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-17	77.9272	20.4976	0	0	98.4248		0.822896
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-18	86.5987	13.6002	0.0326	0.1395	100.2315		0.962768
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-19	75.741	23.5423	0.0125	0	99.2958		0.963329
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G1-20	85.6771	13.7638	0.0201	0	99.461		0.874758
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G4-1	78.5328	20.4987	0.0051	0.203	99.0366		0.891062
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M25-G4-2	77.36	21.8673	0.0123	0	99.2396		0.954819
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M29-G2-1-1	68.7785	29.8441	0	0.0424	98.6226		0.884225
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M29-G2-1-2	57.4298	42.0362	0	0.0214	99.466		0.884225
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M29-G2-2	77.2982	23.1355	0.0186	0	100.4523		0.882922
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M29-G2-3	72.8239	26.7763	0.0131	0	99.6133		0.875377
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M29-G2-4	85.9986	14.3656	0.0144	0.1245	100.3786		0.920123
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M29-G2-5	80.5187	18.5005	0.0157	0.0125	99.0349		0.926563

B 4. Tenmile Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M29-G2-6	77.1876	22.6753	0	0	99.8629		0.878472
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-1	89.9217	9.4068	0.01	0	99.3385		0.998725
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-2	84.4219	16.3309	0	0.2717	101.0245		0.99083
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-3	84.5468	15.1818	0.0328	0	99.7614		0.990854
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-4	82.8814	17.1195	0	0.0805	100.0814		0.980513
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-5	80.7059	19.8169	0	0	100.5228		0.944285
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-6	79.967	19.7957	0	0	99.7627		0.984438
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-7	86.5656	14.2627	0.0084	0.1324	100.9691		0.988303
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-8	79.0617	20.644	0.0136	0.0692	99.7885		0.94181
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-9	79.1701	20.4791	0.0179	0	99.6671		0.973155
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-10	76.2547	23.6447	0.0171	0	99.9165	Pyrite>Arsenopyrite	0.922122
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-11	82.1071	17.5778	0.0211	0	99.706		0.983119
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-12	77.1779	22.318	0.0076	0	99.5035		0.983889
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-13	80.5097	19.4345	0.001	0	99.9452		0.970002
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-14	80.1056	19.4826	0.0167	0	99.6049		0.977156
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-15	79.8678	20.3139	0.0167	0	100.1984	Pyrite	0.953278
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-16	85.7658	13.5334	0.0051	0	99.3043		0.955699
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-17	84.6413	16.3069	0.0141	0.0552	101.0175		0.968389
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-18	93.0292	7.4655	0.0718	0	100.5665		0.906791
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-19	85.9663	14.4654	0.0095	0.0107	100.4519	Pyrite	0.944353
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-20	95.3706	5.775	0.0189	0	101.1645		0.980657
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-21	80.4	19.0952	0.014	0.0505	99.5597		0.888799
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-22	79.5515	20.5693	0.0457	0.0525	100.219		0.934842
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-23	80.7351	20.295	0.009	0	101.0391		0.95043
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-24	80.118	19.7759	0.005	0	99.8989		0.912927
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G11-25	86.1555	14.0869	0.0183	0	100.2607		0.863659
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-1	88.2375	11.9865	0.0275	0	100.2515		0.981174
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-2	79.3731	19.9775	0.0122	0	99.3628		0.983924
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-3	85.1003	14.6222	0	0.2259	99.9484		0.912263
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-4-1	75.9034	22.5169	0.0174	0	98.4377		0.826855
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-4-2	64.4435	35.5124	0.0303	0	99.9862		0.826855
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-5	90.3037	10.3988	0.0485	0	100.751		0.881104
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-6	74.03	25.0104	0.0276	0	99.068		0.850922
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-7	74.5893	24.8138	0	0.0477	99.4508		0.993371
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-8	90.0868	10.4728	0	0.0906	100.6502		0.969855
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-9	82.9279	16.6845	0.0146	0.0233	99.6503		0.990472
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-10	79.9353	19.8276	0.0227	0	99.7856	Pyrite	0.938871
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-11	88.7693	11.3546	0.0174	0	100.1413		0.920373
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-12	78.7808	21.2867	0	0.1005	100.168		0.952301
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-13-1	66.8121	31.8119	0.0285	0	98.6525		0.937506

B 4. Tenmile Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-13-2	56.1548	42.2782	0.0059	0	98.4389		0.864655
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-14	68.3492	30.0762	0	0.0224	98.4478		0.932665
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-15	90.3777	10.4437	0.0359	0	100.8573		0.983476
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-16	87.0615	12.1824	0.0316	0	99.2755		0.892378
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-17	77.86	21.8125	0.0212	0	99.6937		0.976016
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-18	76.4481	23.5134	0.0181	0.025	100.0046		0.93796
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-19	85.9931	13.5691	0	0.248	99.8102		0.895088
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-20	88.804	10.8462	0.0117	0	99.6619		0.907967
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-21	82.6433	16.5216	0.0298	0	99.1947		0.992914
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-22	86.8105	14.3498	0.0153	0	101.1756		0.994997
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-24	66.8279	31.4839	0.0055	0	98.3173		0.923813
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G12-25	80.3426	19.7357	0	0	100.0783		0.959354
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G13-1	81.8102	18.5589	0.0001	0.097	100.4662		0.956198
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G13-2	88.8036	10.6093	0.0321	0.0582	99.5032		0.964212
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G13-4	75.3391	23.7629	0.0023	0.1578	99.2621	Arsenopyrite	0.957975
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G13-6	82.6708	16.1776	0.0291	0.0786	98.9561		0.971917
Ten Mile	Ten Mile Ck	Right Fork	547828	7041619	7	M28-G13-7	68.0838	31.2438	0	0.0061	99.3337		0.930567
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-1	83.9882	14.685	0.0309	0.1348	98.7041	Pyrite	0.933505
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-2	58.1331	39.958	0.0062	0	98.0973	K-Spar	0.922531
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-3	85.2913	12.9753	0.0123	0.0318	98.2789		0.813143
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-4	84.2128	15.1194	0.0141	0.0168	99.3463	Pyrite	0.94027
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-5	83.2601	16.2086	0.0056	0	99.4743	Pyrite, Arsenopyrite	0.98277
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-6	81.5065	16.8136	0	0	98.3201	Pyrite	0.88974
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-7	80.7919	18.363	0.0176	0.0688	99.1725	Pyrite, Arsenopyrite	0.90774
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-8	80.4834	18.1797	0	0	98.6631		0.897104
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-9	81.1698	17.8061	0.0226	0.3025	98.9985	Calcite (Ca-C-O-Mn-Fe)	0.940833
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-10	82.4626	16.4946	0	0	98.9572	Ca-Mg-Fe-C-O	0.935062
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-11	72.8365	25.7944	0	0	98.6309		0.913628
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-12	68.3513	29.7418	0	0	98.0931		0.986324
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-13	78.2869	21.0711	0.0108	0.0849	99.3688		0.899225
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-14	76.6585	21.7021	0	0.066	98.3606		0.8955
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-15	86.3187	12.3363	0	0	98.655	Pyrite	0.925072
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-16	81.8837	17.2038	0.0335	0.1214	99.121	Rutile	0.978838
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-17	86.4754	12.3451	0.0441	0.0552	98.8646		0.976214
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-18	78.0104	21.2721	0.0096	0.0786	99.2921		0.940983
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-19	86.2811	13.1452	0.0193	0	99.4456		0.976176
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-21	76.0683	23.1263	0.0159	0.0802	99.2105		0.958049
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-22	85.4527	14.0416	0.0279	0	99.5222	Arsenopyrite	0.986304
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-23	85.6722	13.4594	0.022	0	99.1536	Pyrite, Arsenopyrite	0.900322
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-24	85.973	12.9506	0.0315	0	98.9551		0.946797

B 4. Tenmile Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G9-25	78.8375	19.2702	0	0.1371	98.1077	Pyrite	0.964738
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-1	81.9164	16.8112	0.0227	0.0398	98.7503	Pyrite	0.840419
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-2	90.8824	9.1922	0.0347	0.0471	100.1093	Pyrite	0.86764
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-3	86.0538	12.9069	0.0098	0	98.9705	K-Spar	0.91624
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-4	73.4387	25.5096	0	0	98.9483		0.815016
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-5	84.0024	15.2369	0.0032	0.0547	99.2425	Pyrite	0.857379
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-6	92.0914	7.0627	0.027	0	99.1811		0.928489
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-7	80.7707	17.6259	0	0.0376	98.3966		0.919077
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-8	89.6963	10.0262	0.0447	0	99.7672		0.860039
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-9	72.4377	25.898	0	0	98.3357		0.889267
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-10	83.9393	15.4326	0.0067	0.0421	99.3786		0.871509
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-11	86.7314	12.9904	0.0347	0	99.7565		0.931772
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-12	80.5821	17.8974	0.0123	0.0188	98.4918	Pyrite	0.885377
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-13	79.9993	19.7017	0.0253	0	99.7263	Arsenopyrite>Pyrite	0.944557
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-14	81.9061	16.7259	0	0.157	98.632	Pyrite	0.933408
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-15	86.5878	13.517	0	0.0803	100.1048	Pyrite	0.924665
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-16	74.2012	25.2239	0	0	99.4251		0.935201
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-17	73.02	26.0563	0.0163	0.0183	99.0926		0.865475
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-18	68.048	30.1967	0.0011	0.629	98.2458		0.927145
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-19	79.4331	20.2046	0.0046	0.0768	99.6423	Arsenopyrite	0.895713
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G5-20	82.0011	17.2358	0.0109	0	99.2478		0.97377
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-1	76.4198	24.042	0.0057	0	100.4675		0.898888
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-2	82.5214	16.9286	0	0.0398	99.45		0.951014
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-3	79.6804	19.0338	0.0272	0	98.7414		0.963754
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-4	84.5273	15.8948	0.0068	0.0021	100.4289		0.928261
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-5	80.3188	19.3983	0	0.0562	99.7171		0.925034
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-6	80.3091	18.6105	0.012	0	98.9316	Pyrite	0.884352
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-7	81.2371	17.8699	0.0037	0	99.1107	Pyrite, Arsenopyrite	0.945238
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-8	82.928	16.5768	0.0046	0	99.5094	Pyrite	0.954163
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-9	84.5737	13.6309	0	0.3587	98.2046		0.925601
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-10	83.2054	15.7248	0.0087	0	98.9389		0.908064
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-11	86.1813	12.5164	0.0111	0	98.7088		0.916225
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-12	86.7769	13.146	0.029	0	99.9519	Pyrite, Arsenopyrite	0.897883
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-13	77.8976	21.2363	0.0005	0.0434	99.1344		0.966012
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-14	83.2729	16.4374	0	0	99.7103		0.927259
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-15	87.7076	12.3329	0.008	0.0679	100.0485		0.893774
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-16	79.6483	19.5287	0.0144	0	99.1914		0.884328
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-17	74.0159	25.1025	0	0	99.1184		0.905063
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-18	86.1326	13.508	0.0076	0	99.6482	Pyrite	0.973369
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-19	80.196	19.9596	0.0063	0	100.1619		0.87973

B 4. Tenmile Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-20	82.8457	16.935	0.0198	0.134	99.8005	Pyrite	0.913168
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-21	86.7267	12.4113	0	0.1865	99.138		0.910648
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-22	77.7262	20.8884	0	0	98.6146		0.930566
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-23	81.8571	18.2615	0	0	100.1186		0.938214
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-24	84.2617	15.1261	0.0179	0.0757	99.4057		0.931269
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G6-25	73.8535	24.8067	0.014	0	98.6742		0.897021
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-1	90.5114	9.4667	0.0348	0.0257	100.0129		0.866011
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-2	91.8775	7.7921	0.0383	0.0279	99.7079	Calcite	0.903642
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-3	86.1727	12.9917	0.009	0	99.1734		0.923951
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-4	76.6326	20.722	0.0024	0	97.357		0.896857
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-5	85.2278	14.16	0.022	0	99.4098		0.899104
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-6	68.5719	29.2813	0.0062	0	97.8594	Pyrite	0.901431
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-7	84.167	15.5933	0.0153	0	99.7756	Pyrite	0.948215
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-8	72.7668	26.8295	0	0	99.5963		0.914986
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-9	82.626	17.3393	0.0147	0.0669	99.98	Pyrite	0.891079
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-10	84.5834	13.4357	0.0315	0	98.0506		0.951437
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-11	73.5125	24.9993	0	0	98.5118	Pyrite, Arsenopyrite	0.916153
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-12	82.8679	16.2543	0	0	99.1222	Pyrite	0.96055
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-13	83.738	15.6284	0.0167	0	99.3831		0.933105
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-14	79.4207	20.3504	0.0256	0.1078	99.7967		0.915024
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-15	85.8092	13.9226	0.0193	0	99.7511		0.955364
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-16	87.5538	12.0499	0.0149	0.0361	99.6186		0.953954
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-17	84.7922	13.9814	0.0228	0	98.7964		0.966703
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-18	81.2649	16.942	0	0.046	98.2069		0.985208
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-19	86.6851	12.2231	0.0027	0	98.9109		0.929667
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-20	72.8733	25.7538	0.0342	0	98.6613		0.925395
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-21	81.472	18.6468	0.0166	0.025	100.1354		0.93598
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-22	80.4732	18.319	0.0029	0.0479	98.7951		0.930095
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-23	87.7698	11.1116	0.0326	0	98.914		0.920099
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-24	84.4987	14.8372	0.0341	0.0063	99.37		0.972438
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M25-G7-25	85.1226	15.3311	0	0	100.4537		0.928065
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M29-G3-1	85.9828	13.4352	0.0076	0.0085	99.4256		0.872461
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-1	78.9036	20.3892	0.0212	0	99.314	Pyrite	0.973509
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-2	84.9067	14.0638	0.0131	0.0676	98.9836		0.950374
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-3	75.4732	24.0583	0	0	99.5315		0.895827
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-4	73.451	25.9448	0.0161	0	99.4119		0.992377
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-5	75.8644	22.7983	0.0104	0	98.6731		0.914509
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-6	77.6046	22.26	0.0202	0.1238	99.8848		0.912494
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-7	77.6242	21.6712	0	0.0558	99.2954		0.973646
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-8	72.8211	26.4496	0.0078	0	99.2785		0.987054

B 4. Tenmile Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-9	82.6308	16.7927	0	0.0126	99.4235	Pyrite	0.942794
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-10	70.2718	28.6546	0	0	98.9264		0.914932
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-11-1	71.9276	26.994	0	0.059	98.9216		0.946023
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-11-2	45.3124	53.6441	0	0	98.9565		0.946023
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-12	69.1997	29.3343	0.0075	0	98.5415	Arsenopyrite	0.894193
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-13	72.3892	26.6948	0.0131	0.0143	99.0971	Arsenopyrite	0.967963
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-14	74.866	25.6497	0	0	100.5157		0.994778
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-15	76.5902	22.949	0.0104	0	99.5496		0.96414
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-16	81.0568	17.8463	0	0	98.9031	Pyrite	0.906729
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-17	87.5195	12.6161	0.0309	0	100.1665	Arsenopyrite	0.924858
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-18	80.7845	19.3481	0.0043	0.0687	100.1369	Arsenopyrite	0.916251
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-19	75.4018	24.4193	0	0	99.8211		0.903386
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-20	85.8117	13.9011	0.0165	0	99.7293	Yb-Si, Pyrite	0.968375
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-21	84.0166	15.2121	0	0.0168	99.2287	Pyrite	0.940951
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-22	82.4014	17.2252	0.0069	0	99.6335		0.964338
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-23	83.3913	16.076	0	0.0273	99.4673		0.894606
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-24	86.3574	13.055	0.0425	0.0275	99.4549		0.952091
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G1-25	85.123	13.9987	0.0146	0	99.1363		0.881733
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G2-1	74.4787	25.1506	0.0072	0	99.6365	Pyrite	0.95777
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G2-2	84.9149	14.1712	0.0295	0.0485	99.1156		0.967229
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G2-3	79.2323	19.9524	0.0129	0	99.1976		0.88916
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G2-4	82.9155	15.2831	0.0371	0.0505	98.2357		0.944647
Ten Mile	Ten Mile Ck	Left Fork	547909	7041639	7	M26-G2-5	86.8073	13.248	0	0.1164	100.0553		0.857093
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	YGP-TW12-M29-G1-1	80.7349	19.1246	0.0359	0	99.8954		0.870013
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	YGP-TW12-M29-G1-2	72.7376	26.4068	0.0473	0.1306	99.3223		0.830177
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G3-1	83.5191	14.9814	0	0	98.5005		0.903205
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G3-2	80.7951	17.7299	0.0217	0.0167	98.5467		0.91298
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G3-3	83.3916	15.4253	0.0217	0.185	98.8386	Pyrite	0.975018
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G3-4	88.874	10.9682	0	0	99.8422		0.949525
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G3-5	78.5334	21.0217	0.0121	0.1138	99.5672	Pyrite	0.893208
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G3-6	84.6033	14.5631	0.0047	0.1349	99.1711		0.937321
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G3-7	78.0282	21.2591	0.0301	0	99.3174		0.893171
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G3-8	72.7493	26.7857	0.0143	0.1914	99.5493		0.921201
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G4-13	90.1236	9.5033	0.0031	0	99.63	As-Co-Ni-S	0.905525
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G4-14	75.4361	24.5772	0.033	0.2298	100.2761	Arsenopyrite	0.872901
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G4-15	83.1689	16.3425	0.0092	0	99.5206		0.880358
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G4-16	80.049	19.5745	0	0.0291	99.6526		0.840455
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G4-17	84.482	14.8067	0.0289	0	99.3176		0.873828
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G4-18	85.9307	12.7858	0.0176	0	98.7341		0.966658
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G4-19	86.5165	12.524	0.0317	0	99.0722		0.859713

B 4. Tenmile Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G4-20	90.8679	8.7556	0.028	0	99.6515		0.873977
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G5-1	89.0438	10.0279	0.0365	0.1303	99.2385		0.872517
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G5-2	75.3506	23.126	0.0044	0	98.481		0.932505
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G5-3	82.7887	16.0045	0.0433	0	98.8365	Pyrite	0.889334
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G5-4	85.7803	12.7693	0.0396	0	98.5892		0.822516
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G5-5	82.9152	15.7662	0.0084	0.0673	98.7571	Arsenopyrite	0.855391
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G5-6	79.8017	19.0219	0.0031	0.0375	98.8642	Arsenopyrite	0.937257
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G5-7	82.4177	17.4959	0.0066	0	99.9202	Pyrite	0.965187
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M26-G5-8	83.5919	15.4698	0	0.0842	99.1459	Pyrite	0.936158
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-1	79.5478	20.8519	0	0.1069	100.5066		0.93951
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-2	82.9039	16.3643	0.0151	0	99.2833		0.911059
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-3	80.0412	20.2264	0.0075	0	100.2751		0.99362
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-4	83.6322	16.6642	0.0158	0	100.3122		0.985696
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-5	75.5793	23.9228	0.0007	0	99.5028		0.954541
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-6	88.9347	12.0994	0.0224	0	101.0565		0.922058
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-7	81.6421	18.3227	0.0263	0	99.9911		0.917661
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-8	82.4809	16.6029	0.0174	0	99.1012		0.935842
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-9	87.1102	13.2058	0.0216	0	100.3376		0.992225
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-10	79.5797	20.4945	0	0.0189	100.0931		0.978421
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-11	93.0603	8.1325	0.0301	0.0261	101.249		0.92492
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-12	82.2065	17.7796	0.0182	0.0676	100.0719		0.952157
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-13	83.2702	16.101	0	0.0042	99.3754		0.980588
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-14	74.4997	24.755	0	0	99.2547		0.93522
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-15	90.0331	10.7212	0.0108	0.2113	100.9764		0.984748
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-16	88.1796	12.2603	0.0369	0	100.4768		0.914051
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-17	76.5373	22.24	0	0	98.7773		0.985116
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-18	71.4225	28.4109	0	0.1436	99.977	Arsenopyrite	0.98027
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-19	81.8314	18.4891	0	0	100.3205		0.964297
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-20	72.2211	26.8876	0	0	99.1087		0.9185
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-21	89.7739	10.4273	0.0076	0.1014	100.3102	Pyrite	0.899951
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-22	79.7005	19.7188	0.015	0.0126	99.4469		0.914405
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-23	92.1068	9.3517	0.0306	0.0801	101.5692		0.971718
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-24	84.7357	15.7853	0.0162	0	100.5372		0.984202
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G9-25	84.8547	14.9592	0	0.0362	99.8501		0.917081
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-1	73.7897	26.202	0.0099	0	100.0016		0.906456
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-2	84.2903	16.3675	0.018	0.0021	100.6779		0.931788
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-3	78.1132	22.2212	0	0.0042	100.3386		0.900596
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-4	87.7335	13.1227	0.0302	0.1114	100.9978		0.9062
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-5	71.2369	28.1826	0	0.4834	99.9029		0.922626
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-6	78.8221	20.8582	0	0.0629	99.7432		0.983467

B 4. Tenmile Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-7	87.4714	12.4561	0.0179	0	99.9454	Pyrite	0.800425
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-8	75.0218	24.3038	0	0	99.3256		0.860103
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-9	77.1828	21.4653	0	0	98.6481		0.920101
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-10	80.3941	19.8743	0.0038	0.0883	100.3605	Pyrite	0.92998
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-11	80.4083	19.0851	0.0095	0	99.5029		0.968443
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-12	83.623	16.811	0	0.123	100.557		0.97601
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-15	80.9919	18.6762	0.0041	0.0485	99.7207		0.947922
Ten Mile	Ten Mile Ck	Loc 2	548944	7042991	7	M28-G10-16	92.1943	9.6069	0.0086	0.0346	101.8444		0.925627

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM6G51	87.8832	10.5627
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM6G52	92.1729	7.7083
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM6G53	95.3466	4.0748
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM6G54	81.7829	15.686
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM6G55	86.5509	11.7508
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM6G56	98.0928	3.775
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM6G57	89.7069	9.213
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM6G58	91.3484	7.1186
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G32	86.8018	11.104
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G34	99.0414	2.3774
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G35	90.9583	5.0495
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G36	88.2684	9.3535
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G37	90.4443	9.5867
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G38	93.9772	4.9342
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G39	87.3064	8.3303
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G310	89.7359	6.7595
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G311	92.0069	8.1114
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G312	82.8849	15.8337
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G313	81.7971	15.6066
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G314	92.7134	8.2078
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G315	92.0703	7.5749
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G316	92.7707	8.0246
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G317	89.0771	11.0597
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G318	82.8721	15.773
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G319	91.1342	7.4992
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G320	92.5591	7.3228
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G321	85.7563	14.063
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G322	93.2081	7.4789
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G323	95.3795	4.8545
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G324	96.5545	4.9299
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G325	93.1458	6.3728

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM6G51	0	0	98.4459		0.945362
YGP2011TWM6G52	0.0424	0.0666	99.9902	FeAsS	0.947211
YGP2011TWM6G53	0.0754	0	99.4968	BiCO3	0.892954
YGP2011TWM6G54	0.0515	0	97.5204		0.902222
YGP2011TWM6G55	0.0422	0	98.3439		0.993058
YGP2011TWM6G56	0.0458	0	101.9136	BiTe	0.979452
YGP2011TWM6G57	0.0788	0	98.9987	BiTe	0.943077
YGP2011TWM6G58	0.0495	0	98.5165		0.940149
YGP2011TWM8G32	0.0092	0	97.915		0.99503
YGP2011TWM8G34	0.0386	0	101.4574		0.926602
YGP2011TWM8G35	0.0478	0	96.0556		0.973336
YGP2011TWM8G36	0.0201	0.1105	97.7525		0.824543
YGP2011TWM8G37	0.0399	0	100.0709		0.988472
YGP2011TWM8G38	0.0561	0	98.9675	BiTe	0.958907
YGP2011TWM8G39	0.0077	0.0089	95.6533		0.964027
YGP2011TWM8G310	0.032	0	96.5274		0.989132
YGP2011TWM8G311	0.0112	0.0621	100.1916		0.969736
YGP2011TWM8G312	0.0519	0.0217	98.7922		0.960375
YGP2011TWM8G313	0.0321	0.0565	97.4923	Pyrite	0.974257
YGP2011TWM8G314	0.0619	0	100.9831		0.941729
YGP2011TWM8G315	0.0413	0	99.6865		0.986834
YGP2011TWM8G316	0.0404	0	100.8357	FeCO3	0.961798
YGP2011TWM8G317	0.007	0	100.1438	BiCO3	0.968192
YGP2011TWM8G318	0.0194	0	98.6645		0.953675
YGP2011TWM8G319	0.0511	0.111	98.7955		0.959015
YGP2011TWM8G320	0.0292	0	99.9111		0.938694
YGP2011TWM8G321	0.0184	0	99.8377		0.897155
YGP2011TWM8G322	0.0266	0	100.7136		0.931503
YGP2011TWM8G323	0.0119	0	100.2459		0.995514
YGP2011TWM8G324	0.0805	0	101.5649		0.936473
YGP2011TWM8G325	0.0321	0.0178	99.5685		0.993286

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G41	92.7382	6.0699
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G42	86.4931	12.8174
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G43	72.4128	27.4758
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G44	93.1758	6.3603
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G45	95.6835	4.1731
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G46	83.5549	16.6455
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G47	93.9381	6.0277
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G48	82.4909	16.3516
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G49	93.8596	5.7175
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G410	93.4822	5.3099
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G411	89.7307	8.4565
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G412	86.5831	13.3258
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G413	93.5677	6.7423
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G414	89.7974	10.3711
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G415	95.7696	4.1582
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G416	93.0378	6.3412
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G417	92.4895	7.6993
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G418	82.5269	17.2378
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G419	91.2576	9.2374
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G420	84.729	14.0017
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G421	94.2918	6.6521
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G422	92.1835	6.8623
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G423	90.9971	7.8655
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G424	90.9903	8.4887
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G425	92.1767	6.7586
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G51	91.7722	8.2199
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G52	98.1906	3.7841
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G53	95.8986	4.8232
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G54	93.9172	5.3213
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G55	95.1192	5.6945
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G56	96.1503	3.5892

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM8G41	0.0301	0	98.8382		0.908329
YGP2011TWM8G42	0.0402	0	99.3507		0.988288
YGP2011TWM8G43	0.0066	0	99.8952		0.908988
YGP2011TWM8G44	0.0597	0	99.5958		0.934528
YGP2011TWM8G45	0.0386	0	99.8952		0.950329
YGP2011TWM8G46	0.014	0	100.2144		0.980716
YGP2011TWM8G47	0.0335	0	99.9993	PbS	0.948693
YGP2011TWM8G48	0.0325	0.0824	98.9574		0.948225
YGP2011TWM8G49	0.0361	0.0625	99.6757		0.982619
YGP2011TWM8G410	0.0568	0	98.8489	BiTe	0.884654
YGP2011TWM8G411	0.041	0	98.2282		0.887936
YGP2011TWM8G412	0.031	0	99.9399	CuFeS2	0.992989
YGP2011TWM8G413	0.0244	0.0713	100.4057		0.949191
YGP2011TWM8G414	0.0276	0	100.1961		0.912478
YGP2011TWM8G415	0.0582	0.0897	100.0757		0.964454
YGP2011TWM8G416	0.0315	0	99.4105	PbS BiTe (outer)	0.944633
YGP2011TWM8G417	0.0285	0	100.2173		0.980149
YGP2011TWM8G418	0.0213	0.0736	99.8596		0.976624
YGP2011TWM8G419	0.0046	0	100.4996		0.99473
YGP2011TWM8G420	0.0275	0	98.7582	Pyrrhotite	0.920075
YGP2011TWM8G421	0.0522	0	100.9961		0.959063
YGP2011TWM8G422	0.0219	0.0267	99.0944	Bite	0.926182
YGP2011TWM8G423	0.0419	0.0355	98.94		0.919278
YGP2011TWM8G424	0.0252	0	99.5042	PbS, BiCO3	0.90037
YGP2011TWM8G425	0.053	0	98.9883		0.955146
YGP2011TWM8G51	0	0	99.9921		0.97383
YGP2011TWM8G52	0.049	0.0135	102.0372		0.985178
YGP2011TWM8G53	0.0563	0.0851	100.8632		0.903877
YGP2011TWM8G54	0.069	0	99.3075		0.98198
YGP2011TWM8G55	0.0483	0	100.862	BiCO3	0.9277
YGP2011TWM8G56	0.0417	0.0314	99.8126		0.958304

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G57	88.9116	9.9644
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G58	86.2974	12.7406
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G59	93.0268	6.9165
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G512	93.7857	7.3962
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G514	85.1479	8.3543
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G515	75.7542	12.0643
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G516	87.9819	10.8551
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G517	91.5878	8.982
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G519	88.9328	8.0215
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G520	91.6784	4.6478
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G521	97.2841	4.3282
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G523	84.7033	13.4172
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G524	95.5019	4.1852
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G525	91.5177	7.9128
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G11	85.2304	13.3871
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G12	91.2615	7.226
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G13	88.9149	8.7762
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G14	93.4137	5.3732
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G15	90.4368	9.4295
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G16	93.3961	5.1166
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G17	92.2237	7.1262
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G18	93.6881	6.2512
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G19	89.4417	8.7394
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G110	91.5695	9.0492
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G111	90.8006	7.3132
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G112	89.1206	10.2079
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G113	89.4654	8.2647
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G114	87.8008	10.8491
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G115	91.3696	8.3486
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G116	88.9004	10.1879
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G117	86.5777	13.0117

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM8G57	0.0137	0	98.8897		0.943748
YGP2011TWM8G58	0.0636	0	99.1016	Pyrrhotite	0.923779
YGP2011TWM8G59	0.0227	0.1024	100.0684	BiCO3 (outer)	0.979674
YGP2011TWM8G512	0.032	0	101.2139	BiCO3	0.974235
YGP2011TWM8G514	0.0353	0	93.5375		0.987388
YGP2011TWM8G515	0	0	87.8185		0.92685
YGP2011TWM8G516	0.0402	0	98.8772	BiS	0.939248
YGP2011TWM8G517	0.0297	0.0221	100.6216		0.958625
YGP2011TWM8G519	0.0228	0.0266	97.0037		0.967032
YGP2011TWM8G520	0.0278	0	96.354		0.97725
YGP2011TWM8G521	0.0255	0.0314	101.6692		0.953629
YGP2011TWM8G523	0.0123	0.0131	98.1459		0.956136
YGP2011TWM8G524	0.0598	0	99.7469		0.955593
YGP2011TWM8G525	0.029	0	99.4595		0.998478
YGP2011TWM8G11	0.0332	0	98.6507		0.939863
YGP2011TWM8G12	0.0326	0.0044	98.5245		0.943854
YGP2011TWM8G13	0.0377	0.0797	97.8085	PbBiS	0.967557
YGP2011TWM8G14	0.0546	0	98.8415		0.930437
YGP2011TWM8G15	0.0113	0	99.8776		0.89828
YGP2011TWM8G16	0.0427	0	98.5554		0.915009
YGP2011TWM8G17	0.0692	0	99.4191		0.858701
YGP2011TWM8G18	0.0221	0.049	100.0104		0.968034
YGP2011TWM8G19	0.0246	0.0443	98.25		0.981235
YGP2011TWM8G110	0.0361	0.1238	100.7786		0.894264
YGP2011TWM8G111	0.0342	0.0578	98.2058		0.943628
YGP2011TWM8G112	0.0181	0	99.3466		0.922192
YGP2011TWM8G113	0.0801	0	97.8102		0.9564
YGP2011TWM8G114	0.0636	0.0484	98.7619	pyrrhotite	0.941199
YGP2011TWM8G115	0.0301	0.0266	99.7749		0.939452
YGP2011TWM8G116	0.0342	0	99.1225	BiTe	0.953447
YGP2011TWM8G117	0.0174	0	99.6068		0.961699

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G118	93.6564	6.2954
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G119	89.4372	7.2304
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G120	90.0691	7.8266
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G21	93.7985	5.9477
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G22	94.2202	4.8953
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G23	94.6886	5.9889
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G24	74.9959	22.759
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G25	90.5454	8.2069
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G26	88.5887	8.4501
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G27	87.4283	8.8403
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G210	89.9583	6.5096
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G211	86.8097	9.3862
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G212	92.0095	4.4324
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G214	90.2209	6.7409
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G218	95.2691	4.4034
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G219	95.0567	6.0266
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM8G220	92.3411	6.8644
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G71	82.6456	15.9398
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G72	90.7888	6.8719
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G73	94.2093	4.2496
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G74	86.9585	11.0162
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G75	95.156	5.1003
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G76	91.5006	6.7168
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G77	89.6807	6.971
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G78	89.6577	8.946
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G79	92.0404	6.8447
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G710	94.2625	3.4884
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G711	96.5986	3.2035
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G712	90.3082	8.5256
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G713	94.3357	5.5338
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G714	92.4674	7.1471

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM8G118	0.0297	0.0312	100.0127		0.937853
YGP2011TWM8G119	0.0238	0	96.6914		0.888877
YGP2011TWM8G120	0.0369	0	97.9326		0.885686
YGP2011TWM8G21	0.035	0	99.7812		0.990454
YGP2011TWM8G22	0.0413	0	99.1568		0.9786
YGP2011TWM8G23	0.0466	0	100.7241		0.983874
YGP2011TWM8G24	0.0189	0	97.7738	CuFeS2	0.954422
YGP2011TWM8G25	0.0621	0	98.8144		0.915821
YGP2011TWM8G26	0.0332	0	97.072		0.959036
YGP2011TWM8G27	0.0429	0	96.3115		0.949244
YGP2011TWM8G210	0.0212	0	96.4891		0.921497
YGP2011TWM8G211	0.0362	0	96.2321	Pyrrhotite	0.930171
YGP2011TWM8G212	0.0686	0.0761	96.5866		0.948063
YGP2011TWM8G214	0.0338	0	96.9956		0.948446
YGP2011TWM8G218	0.0505	0.0202	99.7432		0.868104
YGP2011TWM8G219	0.0414	0	101.1247		0.94127
YGP2011TWM8G220	0.0267	0	99.2322		0.958106
YGP2011TWM9G71	0.0152	0.0043	98.6049		0.946156
YGP2011TWM9G72	0.0216	0	97.6823	PdSb	0.935097
YGP2011TWM9G73	0.0229	0	98.4818		0.915242
YGP2011TWM9G74	0.0299	0	98.0046		0.918806
YGP2011TWM9G75	0.0493	0	100.3056		0.85967
YGP2011TWM9G76	0.049	0.0712	98.3376		0.993906
YGP2011TWM9G77	0.059	0.0667	96.7774		0.938428
YGP2011TWM9G78	0.0255	0.0288	98.658		0.975491
YGP2011TWM9G79	0.0658	0	98.9509		0.958919
YGP2011TWM9G710	0.0026	0.0045	97.758		0.921888
YGP2011TWM9G711	0.0405	0	99.8426		0.962291
YGP2011TWM9G712	0.0464	0	98.8802		0.977572
YGP2011TWM9G713	0.0418	0	99.9113		0.995051
YGP2011TWM9G714	0.013	0	99.6275	BiTe	0.944255

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G715	93.7661	4.7187
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G716	88.2435	10.6881
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G717	87.305	11.0618
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G719	90.4709	8.2227
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G82	95.1082	3.8415
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G83	79.8447	17.9588
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G84	93.2116	5.6899
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G85	83.7061	15.0033
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G86	87.5634	7.4797
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G87	85.8288	10.5761
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G88	93.6666	5.5214
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G89	96.4733	3.2407
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G811	101.3453	0.2849
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G812	84.1221	10.5525
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G814	76.6245	20.0961
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G815	89.0937	8.0227
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G817	92.4835	4.4947
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G818	94.8086	3.6667
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G819	82.8405	13.639
Dawson Range	Mechanic Ck	Left Fork - Wez	380125	6912927	8	YGP2011TWM9G820	95.6837	2.8484
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM6G91	90.5352	6.9405
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM6G92	90.0847	9.658
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G61	93.9	5.0651
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G63	93.5441	6.1523
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G64	94.8902	5.0767
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G65	87.1522	8.0116
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G67	83.9392	13.8282
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G68	93.1936	4.6954
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G69	87.2035	10.2501
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G610	91.7917	7.0293
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G611	94.2447	4.6892

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM9G715	0.0071	0	98.4919		0.982973
YGP2011TWM9G716	0.0236	0.0617	99.0169		0.931025
YGP2011TWM9G717	0.0154	0	98.3822		0.953976
YGP2011TWM9G719	0.0239	0	98.7175		0.915979
YGP2011TWM9G82	0.0505	0	99.0002		0.982857
YGP2011TWM9G83	0.0308	0	97.8343		0.94602
YGP2011TWM9G84	0.0387	0	98.9402		0.972519
YGP2011TWM9G85	0.0584	0	98.7678		0.914016
YGP2011TWM9G86	0.0377	0	95.0808		0.960196
YGP2011TWM9G87	0.0587	0	96.4636		0.908595
YGP2011TWM9G88	0.0774	0	99.2654		0.937872
YGP2011TWM9G89	0.0619	0.0247	99.8006		0.980619
YGP2011TWM9G811	0.0675	0.0453	101.743		0.92744
YGP2011TWM9G812	0.016	0.0638	94.7544		0.968197
YGP2011TWM9G814	0.0267	0	96.7473		0.967162
YGP2011TWM9G815	0.0528	0.0399	97.2091		0.904213
YGP2011TWM9G817	0.0064	0	96.9846		0.93607
YGP2011TWM9G818	0.0436	0	98.5189		0.92049
YGP2011TWM9G819	0.008	0	96.4875		0.889104
YGP2011TWM9G820	0.0469	0	98.579		0.971023
YGP2011TWM6G91	0.06	0	97.5357	BiCO3, PbS	0.974492
YGP2011TWM6G92	0.0208	0	99.7635		0.990208
YGP2011TWM9G61	0.0446	0	99.0097		0.987652
YGP2011TWM9G63	0.0491	0	99.7455		0.936371
YGP2011TWM9G64	0.0344	0	100.0013		0.92702
YGP2011TWM9G65	0.0484	0.0177	95.2299	BiCO3,	0.920493
YGP2011TWM9G67	0.0312	0.0567	97.8553		0.902893
YGP2011TWM9G68	0.0427	0	97.9317		0.978917
YGP2011TWM9G69	0.0075	0	97.4611		0.974784
YGP2011TWM9G610	0.0313	0	98.8523		0.913831
YGP2011TWM9G611	0.0138	0.0045	98.9522		0.980726

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G612	89.2703	9.6601
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G613	88.3183	9.2312
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G614	87.2516	11.593
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G615	87.6912	12.0824
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G616	94.4092	4.964
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G617	93.4761	4.7651
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G618	86.8142	11.1254
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G619	92.3721	7.1663
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G620	93.7576	6.0971
Dawson Range	Worlwind Ck	Upper Worlwind	381873	6913325	8	YGP2011TWM9G621	91.9187	6.2026
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM6G41	90.3987	8.7884
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM6G41 - 2nd Phase	50.433	47.7549
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM6G42	91.4753	8.401
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM6G43	92.2828	7.64
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM6G31	92.7485	7.6366
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G61	89.3851	7.6491
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G62	81.313	12.0263
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G63	93.8271	6.3787
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G64	87.5176	9.7489
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G65	92.4982	6.4387
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G66	93.8034	5.4742
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G67	91.2679	8.0593
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G68	92.7988	7.9749
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G69	91.117	8.4663
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G610	90.0385	9.0253
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G611	78.0126	20.0086
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G612	89.4991	9.8172
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G613	89.493	9.4835
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G614	91.4746	7.8903
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G71	88.6617	10.5263
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G72	94.34	4.9524

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM9G612	0.0385	0.0022	98.9711		0.919403
YGP2011TWM9G613	0.0204	0	97.5699		0.952036
YGP2011TWM9G614	0.048	0	98.8926		0.991804
YGP2011TWM9G615	0.0357	0	99.8093		0.998334
YGP2011TWM9G616	0.0285	0	99.4017		0.933541
YGP2011TWM9G617	0.019	0	98.2602		0.988771
YGP2011TWM9G618	0.0278	0	97.9674		0.999392
YGP2011TWM9G619	0.0269	0	99.5653		0.979716
YGP2011TWM9G620	0.0202	0.029	99.9039		0.944219
YGP2011TWM9G621	0.0606	0	98.1819		0.960651
YGP2011TWM6G41	0.0246	0	99.2117		0.949432
YGP2011TWM6G41 - 2nd Phase	0	0.3234	98.5113		0.949432
YGP2011TWM6G42	0.0391	0.0443	99.9597	Prrhotite	0.996329
YGP2011TWM6G43	0.048	0	99.9708		0.989853
YGP2011TWM6G31	0.0416	0	100.4267		0.993786
YGP2011TWM8G61	0.0201	0	97.0543		0.963542
YGP2011TWM8G62	0.0163	0.0394	93.395	PbS	0.972007
YGP2011TWM8G63	0.021	0.0134	100.2402		0.97057
YGP2011TWM8G64	0.0006	0	97.2671		0.965209
YGP2011TWM8G65	0.0578	0	98.9947		0.948977
YGP2011TWM8G66	0.0218	0	99.2994		0.952413
YGP2011TWM8G67	0.0577	0	99.3849		0.928061
YGP2011TWM8G68	0	0	100.7737		0.926846
YGP2011TWM8G69	0.0354	0	99.6187		0.971018
YGP2011TWM8G610	0.0362	0.1018	99.2018		0.969927
YGP2011TWM8G611	0.0069	0.0558	98.0839		0.930865
YGP2011TWM8G612	0.065	0.0309	99.4122		0.972244
YGP2011TWM8G613	0.023	0	98.9995		0.994242
YGP2011TWM8G614	0.0361	0	99.401		0.970081
YGP2011TWM8G71	0.0107	0	99.1987	CuFeS2, pyrrhotite	0.996063
YGP2011TWM8G72	0.0531	0.0492	99.3947		0.995051

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G73	90.3694	9.4392
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G74	90.3206	9.3854
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G75	87.8215	11.8435
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G76	89.1015	9.0706
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G77	90.8566	7.9765
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G78	95.2551	4.5322
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G79	91.3284	8.348
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G710	94.3512	5.276
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G711	84.059	15.2555
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G712	94.2036	6.0057
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G713	96.7262	3.5907
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G714	79.7449	20.5465
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G715	91.5474	8.1216
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G716	91.4491	6.6001
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G717	94.2742	5.4431
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G718	93.6993	5.7233
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G719	87.3029	11.4927
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G720	87.4061	12.1259
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G721	93.7132	6.5163
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G722	92.3382	8.2613
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G723	93.1789	5.7117
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G724	85.0957	14.7089
Dawson Range	Worlwind Ck	Lower Worlwind	382114	6913628	8	YGP2011TWM8G725	92.4621	6.4903
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G61	91.994	7.7888
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G62	86.8012	10.7357
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G62 - 2nd phase	82.4784	16.9445
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G71	95.2139	5.0522
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G72	91.4016	8.2101
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G73	93.2052	7.2514
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G74	91.1058	7.8918
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G75	92.1672	7.4774

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM8G73	0.0338	0	99.8424		0.974679
YGP2011TWM8G74	0.0473	0	99.7533		0.982521
YGP2011TWM8G75	0.0336	0	99.6986		0.920813
YGP2011TWM8G76	0.0022	0	98.1743		0.978034
YGP2011TWM8G77	0.0453	0	98.8784		0.97657
YGP2011TWM8G78	0.0478	0.0538	99.8889		0.895404
YGP2011TWM8G79	0.0118	0	99.6882	BiTe	0.972292
YGP2011TWM8G710	0.0329	0	99.6601		0.915418
YGP2011TWM8G711	0.0227	0	99.3372		0.98069
YGP2011TWM8G712	0.084	0.0803	100.3736	BiS,PbS	0.983159
YGP2011TWM8G713	0.0624	0	100.3793		0.949422
YGP2011TWM8G714	0.0075	0	100.2989		0.942343
YGP2011TWM8G715	0.0614	0	99.7304		0.982858
YGP2011TWM8G716	0.076	0	98.1252	PbBiS	0.915873
YGP2011TWM8G717	0.034	0	99.7513		0.982776
YGP2011TWM8G718	0.0213	0.0313	99.4752		0.944744
YGP2011TWM8G719	0.0586	0	98.8542		0.936145
YGP2011TWM8G720	0.0383	0	99.5703		0.946801
YGP2011TWM8G721	0.0127	0	100.2422		0.965168
YGP2011TWM8G722	0.054	0	100.6535		0.992092
YGP2011TWM8G723	0.0392	0	98.9298		0.982527
YGP2011TWM8G724	0.0202	0.2091	100.0339		0.97936
YGP2011TWM8G725	0.0707	0	99.0231		0.9684
YGP2011TWM6G61	0.0332	0	99.816		0.931521
YGP2011TWM6G62	0.0621	0	97.599	PbS	0.893562
YGP2011TWM6G62 - 2nd phase	0.0007	0.0779	99.5015		0.893562
YGP2011TWM6G71	0.0565	0.0805	100.4031	PbS	0.926792
YGP2011TWM6G72	0.0129	0	99.6246	PbTe, PbS	0.906284
YGP2011TWM6G73	0.0462	0	100.5028		0.93549
YGP2011TWM6G74	0.0395	0	99.0371		0.958074
YGP2011TWM6G75	0.0178	0	99.6624		0.943902

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G76	90.681	9.1573
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G76 - 2nd phase	89.4717	10.3587
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM6G77	89.9081	9.0411
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G51	90.0172	9.33
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G52	83.9877	13.5244
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G53	87.9519	10.6366
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G54	90.6717	8.3281
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G55	92.7827	7.2915
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G56	90.6434	8.3783
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G57	89.0483	9.3108
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G58	87.5605	11.1582
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G59	92.2787	8.2488
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G510	89.6868	9.3125
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G511	88.9293	9.7326
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G512	93.2226	7.072
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G513	87.423	11.6635
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G514	88.6632	11.3885
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G515	93.8964	4.9486
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G516	90.0457	8.9484
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G517	90.2329	9.3433
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G518	92.9808	6.2417
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G519	89.5025	9.2551
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G520	89.6096	9.3459
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G521	92.361	8.2584
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G32	90.4264	9.3336
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G33	85.6813	11.518
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G34	91.5908	8.43
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G35	96.2355	8.276
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G36	88.7072	9.4607
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G37	84.1391	12.5563
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G38	89.2936	9.0239

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM6G76	0.0276	0	99.8659	PbS, BiCO3	0.974715
YGP2011TWM6G76 - 2nd phase	0.0371	0.0971	99.9646		0.974715
YGP2011TWM6G77	0.0384	0	98.9876	BiTe	0.962098
YGP2011TWM9G51	0.0015	0.0088	99.3575		0.991377
YGP2011TWM9G52	0.0173	0	97.5294		0.907114
YGP2011TWM9G53	0.0386	0	98.6271		0.901518
YGP2011TWM9G54	0.0103	0.0266	99.0367		0.888828
YGP2011TWM9G55	0.0317	0	100.1059		0.881262
YGP2011TWM9G56	0.0107	0	99.0324		0.998286
YGP2011TWM9G57	0.0204	0	98.3795		0.91848
YGP2011TWM9G58	0.0303	0	98.749		0.955029
YGP2011TWM9G59	0.0381	0	100.5656		0.989868
YGP2011TWM9G510	0.019	0	99.0183		0.953599
YGP2011TWM9G511	0.0353	0	98.6972		0.989118
YGP2011TWM9G512	0.0536	0.0756	100.4238		0.98569
YGP2011TWM9G513	0.0312	0	99.1177		0.958967
YGP2011TWM9G514	0.035	0	100.0867	PbS	0.917709
YGP2011TWM9G515	0.0149	0	98.8599		0.912149
YGP2011TWM9G516	0.021	0	99.0151		0.94955
YGP2011TWM9G517	0.0196	0	99.5958		0.992189
YGP2011TWM9G518	0.0242	0	99.2467		0.913
YGP2011TWM9G519	0.0409	0	98.7985		0.951273
YGP2011TWM9G520	0.0131	0.0486	99.0172		0.995962
YGP2011TWM9G521	0.0348	0	100.6542		0.974687
YGP2011TWM9G32	0.0339	0	99.7939		0.95828
YGP2011TWM9G33	0.0294	0	97.2287		0.974142
YGP2011TWM9G34	0.0156	0	100.0364		0.967867
YGP2011TWM9G35	0.0479	0	104.5594		0.967908
YGP2011TWM9G36	0.0372	0	98.2051		0.947108
YGP2011TWM9G37	0.0098	0	96.7052		0.97246
YGP2011TWM9G38	0.029	0	98.3465		0.987766

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G39	88.9851	9.7485
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G311	91.1918	7.0404
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G312	85.7377	12.749
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G313	90.8379	8.7969
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G314	88.0784	10.2985
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G315	93.2299	5.6924
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G316	88.4464	9.4442
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G318	95.1035	4.4094
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G319	87.7635	11.2579
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G320	86.769	9.6437
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G41	89.6843	9.7879
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G42	94.4314	4.4267
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G43	90.3535	9.1279
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G44	90.3873	7.9629
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G45	88.6814	11.2501
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G46	93.8395	4.9345
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G47	90.0633	9.4047
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G48	88.2399	11.5657
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G49	89.5425	9.1088
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G410	92.3242	8.0333
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G411	89.2007	9.0903
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G412	89.8442	10.1421
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G413	93.0045	6.0385
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G414	90.6197	8.6786
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G415	89.1968	10.6759
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G416	89.723	9.7931
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G417	89.9341	7.7431
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G418	88.1822	10.4108
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G419	90.1123	9.0958
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G420	83.4841	15.3847
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G421	86.7623	13.455

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM9G39	0.0253	0	98.7589		0.944869
YGP2011TWM9G311	0.0525	0	98.2847		0.935105
YGP2011TWM9G312	0.0055	0	98.4922		0.941073
YGP2011TWM9G313	0.0532	0	99.688		0.978197
YGP2011TWM9G314	0.0676	0	98.4445		0.960445
YGP2011TWM9G315	0.0519	0	98.9742		0.951884
YGP2011TWM9G316	0.0465	0.0839	98.021	Pyrite	0.951308
YGP2011TWM9G318	0.0723	0.0358	99.621		0.941805
YGP2011TWM9G319	0.0553	0	99.0767	BiCO3	0.925347
YGP2011TWM9G320	0.0174	0	96.4301		0.953821
YGP2011TWM9G41	0.032	0	99.5042		0.900409
YGP2011TWM9G42	0.0568	0	98.9149		0.928449
YGP2011TWM9G43	0.0285	0.0797	99.5896		0.9474
YGP2011TWM9G44	0.0472	0	98.3974		0.922781
YGP2011TWM9G45	0.0352	0	99.9667	PbS	0.982964
YGP2011TWM9G46	0.0444	0.0157	98.8341		0.910571
YGP2011TWM9G47	0.0391	0	99.5071		0.948269
YGP2011TWM9G48	0.0315	0	99.8371		0.974341
YGP2011TWM9G49	0.0375	0	98.6888		0.991129
YGP2011TWM9G410	0.0512	0	100.4087	Alanite (CaFeAl silicate + LREE)	0.947318
YGP2011TWM9G411	0.027	0	98.318		0.98071
YGP2011TWM9G412	0.0514	0	100.0377		0.943955
YGP2011TWM9G413	0.0354	0	99.0784		0.995563
YGP2011TWM9G414	0.0546	0	99.3529		0.965098
YGP2011TWM9G415	0	0	99.8727		0.990409
YGP2011TWM9G416	0.0458	0	99.5619		0.949313
YGP2011TWM9G417	0.0105	0	97.6877		0.983992
YGP2011TWM9G418	0.0225	0	98.6155		0.970873
YGP2011TWM9G419	0.0344	0	99.2425		0.99755
YGP2011TWM9G420	0.0284	0.0543	98.9515		0.944379
YGP2011TWM9G421	0.0309	0	100.2482		0.984469

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G423	88.6533	10.1022
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G424	89.4336	8.9006
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G425	85.6376	13.2523
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G11	85.5453	10.7926
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G12	90.9197	9.6963
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G13	88.6852	7.4947
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G16	88.4025	9.8108
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G17	88.6586	9.3987
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G18	83.5004	9.0471
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G19	78.2017	10.2459
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G110	85.4742	9.227
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G111	88.904	9.676
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G112	88.9698	9.8093
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G113	87.5757	11.6748
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G114	92.6331	8.4702
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G115	91.4861	9.5069
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G116	90.5926	8.6978
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G117	93.3052	6.5336
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G118	91.0314	7.5246
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G119	88.1721	8.645
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G120	88.5197	10.7639
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G21	89.7289	10.5977
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G22	92.2941	7.5538
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G23	89.0092	11.2645
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G24	92.3203	8.3171
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G26	82.1042	16.4174
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G27	89.9125	9.1941
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G28	85.9722	10.488
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G211	89.4132	9.5983
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G212	87.8683	11.672
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G213	84.2363	12.5228

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM9G423	0	0	98.7555		0.977689
YGP2011TWM9G424	0.0284	0	98.3626		0.982066
YGP2011TWM9G425	0.0139	0	98.9038	Pyrite	0.940166
YGP2011TWM9G11	0.0364	0	96.3743		0.952962
YGP2011TWM9G12	0.0454	0	100.6614		0.975098
YGP2011TWM9G13	0.0481	0	96.228		0.986727
YGP2011TWM9G16	0.0187	0	98.232		0.930947
YGP2011TWM9G17	0.0496	0.0044	98.1113		0.993082
YGP2011TWM9G18	0.0215	0	92.569		0.962015
YGP2011TWM9G19	0.009	0	88.4566		0.958256
YGP2011TWM9G110	0.04	0	94.7412		0.964489
YGP2011TWM9G111	0.0339	0	98.6139		0.959226
YGP2011TWM9G112	0.0587	0	98.8378		0.992178
YGP2011TWM9G113	0.009	0	99.2595		0.928505
YGP2011TWM9G114	0.0339	0	101.1372		0.925682
YGP2011TWM9G115	0.0263	0	101.0193		0.90345
YGP2011TWM9G116	0.0439	0	99.3343	pyrrhotite, PbS (tr Sb) BiTe	0.983531
YGP2011TWM9G117	0.0415	0	99.8803		0.979902
YGP2011TWM9G118	0.0494	0.02	98.6254		0.975824
YGP2011TWM9G119	0.0213	0.0044	96.8428		0.916008
YGP2011TWM9G120	0.0172	0.011	99.3118		0.967054
YGP2011TWM9G21	0.0371	0	100.3637	PbS	0.96029
YGP2011TWM9G22	0.0799	0	99.9278		0.933689
YGP2011TWM9G23	0.0164	0	100.2901		0.931623
YGP2011TWM9G24	0.026	0.1286	100.792		0.955499
YGP2011TWM9G26	0.0267	0	98.5483		0.865499
YGP2011TWM9G27	0.0086	0	99.1152		0.94029
YGP2011TWM9G28	0.0225	0	96.4827		0.895973
YGP2011TWM9G211	0.0507	0	99.0622		0.989234
YGP2011TWM9G212	0	0	99.5403		0.927541
YGP2011TWM9G213	0.0162	0.0657	96.841		0.933049

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Revenue Ck	Lower Revenue	382181	6914144	8	YGP2011TWM9G216	90.6514	11.0321
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-1	90.2377	9.0312
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-2	93.9183	5.3968
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-3	87.2545	12.2163
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-4	91.5338	7.8071
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-5	90.6054	9.1164
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-6	89.6795	11.265
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-7-1	89.6054	10.2984
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-8	93.635	5.5965
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-9	89.4452	9.8569
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-10	91.243	8.145
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-11-1	87.2228	11.6731
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-12	87.162	11.9975
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-13	87.3711	12.3671
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-14	88.7088	10.795
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-15	86.1925	13.2545
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-16	89.6649	10.3399
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-17	88.9631	10.1238
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-18-1	87.2925	12.4046
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-19	89.8716	10.6154
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-20	91.6514	8.3153
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-21	85.2656	13.4757
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-22	89.5031	10.4618
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-23	91.5058	7.9697
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-24	88.9101	11.3111
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G4-25	89.6796	9.2556
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-1	90.3919	10.58
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-2	87.2389	12.0588
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-3	91.3747	9.8073
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-4	90.184	9.2658
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-5	89.3332	9.176

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM9G216	0.03	0	101.7135		0.948885
M32-G4-1	0.037	0	99.3059		0.909454
M32-G4-2	0.0299	0	99.345		0.936674
M32-G4-3	0.0158	0	99.4866		0.982928
M32-G4-4	0.0222	0	99.3631		0.974145
M32-G4-5	0.0482	0	99.77		0.92635
M32-G4-6	0.0068	0.034	100.9513		0.990088
M32-G4-7-1	0.0328	0	99.9366	Chalcopyrite	0.952779
M32-G4-8	0.0526	0	99.2841		0.978746
M32-G4-9	0.0166	0	99.3187	Ti-W-Oxide (Outside), K-spar	0.856984
M32-G4-10	0.0404	0	99.4284		0.901069
M32-G4-11-1	0.0386	0	98.9345		0.975392
M32-G4-12	0.016	0	99.1755		0.892504
M32-G4-13	0.0112	0	99.7494	Pyrite	0.991166
M32-G4-14	0	0	99.5038		0.977228
M32-G4-15	0.0326	0.0254	99.4796		0.930051
M32-G4-16	0.0486	0	100.0534		0.984339
M32-G4-17	0.014	0	99.1009		0.974189
M32-G4-18-1	0.0279	0.0361	99.725		0.946189
M32-G4-19	0.0314	0.0682	100.5184		0.991267
M32-G4-20	0.0205	0	99.9872		0.943118
M32-G4-21	0.034	0.1204	98.7753		0.956849
M32-G4-22	0.0292	0	99.9941		0.976204
M32-G4-23	0.0215	0	99.497		0.972474
M32-G4-24	0.0117	0.0149	100.2329		0.953595
M32-G4-25	0.0458	0	98.981	Pyrite, chalcopyrite	0.996482
M32-G5-1	0.051	0	101.0229		0.979473
M32-G5-2	0.0188	0.1634	99.3165		0.994993
M32-G5-3	0.0459	0	101.2279	Pyrite>chalcopyrite	0.962371
M32-G5-4	0.0283	0	99.4781		0.981127
M32-G5-5	0.0428	0	98.552	Pyrite	0.995209

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-6	93.5938	6.3485
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-7	89.7062	9.7578
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-8-1	88.2118	10.3554
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-9	89.3332	10.8808
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-10	84.9649	13.2376
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-11	91.6862	9.6698
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-12-1	86.6056	12.8021
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-13	91.3711	7.5628
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-14	94.873	4.128
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-15	90.0133	10.3216
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-16	82.4358	16.2376
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-17	90.6114	10.4372
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-19-1	86.2793	13.4794
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-20	91.6503	9.2932
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-21	93.0129	6.4321
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-22	91.6683	8.0823
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-23	92.2531	6.8483
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-24	89.7496	9.9398
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M32-G5-25	88.7761	11.4374
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M29-G5-1	90.0069	10.1278
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M29-G5-2	91.0404	8.8271
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M29-G5-3	89.0468	10.8873
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M29-G4-1	88.9589	10.6417
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M29-G4-2	88.2298	11.6917
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M29-G4-3	88.7724	10.873
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-1	97.56	2.6186
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-2	93.4854	6.229
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-3	91.0859	8.8218
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-4	92.9219	7.0232
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-5	90.7245	9.2582
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-6-1	88.3047	10.251

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M32-G5-6	0.054	0	99.9963		0.987639
M32-G5-7	0.0079	0	99.4719		0.956714
M32-G5-8-1	0.0331	0	98.6003	Qtz	0.977028
M32-G5-9	0.0287	0	100.2427		0.957335
M32-G5-10	0.0318	0	98.2343		0.935972
M32-G5-11	0.0303	0.0363	101.3863		0.973934
M32-G5-12-1	0.0502	0	99.4579		0.989143
M32-G5-13	0.0317	0.0344	98.9656		0.999404
M32-G5-14	0.0436	0.3097	99.0446		0.911152
M32-G5-15	0.0247	0	100.3596		0.967691
M32-G5-16	0.0321	0.0042	98.7055		0.967354
M32-G5-17	0.0148	0	101.0634		0.98824
M32-G5-19-1	0.0438	0	99.8025	Chalcopyrite	0.967151
M32-G5-20	0.0549	0	100.9984		0.970043
M32-G5-21	0.0098	0.0022	99.4548	K, Na, Ca feldspars	0.947851
M32-G5-22	0.058	0	99.8086		0.969311
M32-G5-23	0.0866	0	99.188		0.977257
M32-G5-24	0.0211	0	99.7105		0.952704
M32-G5-25	0.0023	0	100.2158	Pyrite	0.96875
M29-G5-1	0.0196	0	100.1543		0.865636
M29-G5-2	0.0503	0	99.9178	BiTe, Galena	0.932495
M29-G5-3	0.0649	0	99.999		0.923957
M29-G4-1	0.0147	0	99.6153	Galena, BiTe	0.946431
M29-G4-2	0.0304	0.085	99.9519	Galena	0.874181
M29-G4-3	0.0288	0	99.6742		0.781003
M27-G9-1	0.0526	0	100.2312		0.951903
M27-G9-2	0.0559	0	99.7703		0.948217
M27-G9-3	0.0168	0	99.9245		0.930785
M27-G9-4	0.039	0	99.9841		0.923282
M27-G9-5	0.0236	0	100.0063		0.960413
M27-G9-6-1	0.0134	0	98.5691		0.904598

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-7-1	87.3516	11.5704
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-8	91.2058	8.2505
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-9	89.5386	9.8175
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-10	77.9285	20.9018
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-11	89.7321	9.07
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-12-1	73.3953	26.0007
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-13-1	86.3405	12.9836
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-14	90.8294	9.208
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-15	88.1037	11.3167
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-16-1	86.3113	12.9573
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-17	90.1361	9.2705
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-18	90.6261	9.6893
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-19	89.3209	10.2049
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-20	98.6963	2.3694
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-21	89.3375	10.409
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-22	92.5278	6.5943
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-23	89.9904	9.4525
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-24	86.6388	12.0157
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G9-25	85.1232	13.1888
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-1	92.7928	7.1379
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-2	86.9073	12.3134
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-3	93.1467	5.8321
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-4	87.2302	11.5112
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-5	86.9113	11.985
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-6	90.1836	8.7961
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-7	88.1213	11.6584
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-8	64.5001	33.4816
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-9	86.2986	12.4781
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-10	87.2584	11.3823
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-12	93.2511	6.1661
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-13	86.5039	13.2209

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M27-G9-7-1	0.0413	0	98.9633		0.97289
M27-G9-8	0.0305	0.0172	99.504		0.968579
M27-G9-9	0.0022	0	99.3583		0.996214
M27-G9-10	0.0113	0	98.8416		0.96064
M27-G9-11	0.0418	0	98.8439		0.936287
M27-G9-12-1	0	0.0633	99.4593		0.982563
M27-G9-13-1	0.0295	0	99.3536		0.962195
M27-G9-14	0	0	100.0374		0.977219
M27-G9-15	0.005	0	99.4254		0.938229
M27-G9-16-1	0.0089	0.0699	99.3474	Galena, K-Spar	0.951434
M27-G9-17	0.0276	0	99.4342		0.969431
M27-G9-18	0.0224	0	100.3378		0.966251
M27-G9-19	0.0062	0	99.532		0.978637
M27-G9-20	0.076	0.0698	101.2115		0.961361
M27-G9-21	0.0243	0	99.7708		0.942011
M27-G9-22	0.0443	0	99.1664		0.9789
M27-G9-23	0.02	0	99.4629		0.955731
M27-G9-24	0.0403	0.0106	98.7054		0.939411
M27-G9-25	0.0131	0.0804	98.4055		0.886387
M27-G10-1	0.0411	0	99.9718		0.991493
M27-G10-2	0.0569	0	99.2776		0.983947
M27-G10-3	0.0881	0	99.0669		0.997376
M27-G10-4	0.021	0	98.7624		0.991747
M27-G10-5	0.0376	0	98.9339		0.974444
M27-G10-6	0.0351	0	99.0148	Pyrite	0.969161
M27-G10-7	0.0371	0	99.8168		0.960026
M27-G10-8	0	0.1894	98.1711		0.919898
M27-G10-9	0.0261	0	98.8028		0.922525
M27-G10-10	0.0216	0.0489	98.7112		0.972219
M27-G10-12	0.0579	0.0065	99.4816		0.988917
M27-G10-13	0.0193	0	99.7441		0.988096

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-14	88.2707	11.3482
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-15	90.3927	8.0816
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-16	86.8678	12.41
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-17	93.8462	5.633
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-18	89.8406	10.1856
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-19	90.6873	9.087
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-21	93.1981	5.5036
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-22	86.2765	13.2139
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-23	92.8057	6.3259
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-24	86.6848	13.1896
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G10-25	88.7478	10.1587
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-1	94.598	4.5341
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-2	85.7712	12.7039
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-3	67.3843	31.3198
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-4	88.932	10.5124
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-5	86.0759	12.8022
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-6	89.0285	10.1168
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-8	85.6915	13.179
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-9	90.8802	8.4777
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-11	88.1445	11.3477
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-12	94.6285	5.3758
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-13	93.8724	5.6927
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-14	94.5155	5.3219
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-16	90.3535	9.0771
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-18	83.8842	14.496
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-19	86.0451	12.3693
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-20	88.6577	9.8689
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-22	84.5634	13.0113
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-23	89.2065	9.4382
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-24	81.382	17.3724
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G11-25	84.5661	13.8206

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M27-G10-14	0.0012	0	99.6201	K-Spar	0.998227
M27-G10-15	0.0298	0	98.5041		0.947323
M27-G10-16	0.0182	0	99.296		0.942974
M27-G10-17	0.0228	0	99.502		0.998725
M27-G10-18	0.0092	0	100.0354		0.992228
M27-G10-19	0.0305	0	99.8048		0.942482
M27-G10-21	0.035	0	98.7367		0.976606
M27-G10-22	0.0257	0	99.5161		0.938737
M27-G10-23	0.0251	0	99.1567		0.98813
M27-G10-24	0.0102	0	99.8846	Pyrite	0.995485
M27-G10-25	0.0321	0	98.9386		0.924588
M27-G11-1	0.0446	0	99.1767		0.960735
M27-G11-2	0.0015	0.0424	98.519		0.924616
M27-G11-3	0	0.0261	98.7302		0.936561
M27-G11-4	0.0419	0.0277	99.514		0.943407
M27-G11-5	0.0047	0.0085	98.8913	K-Spar	0.91147
M27-G11-6	0.0383	0	99.1836	K-Spar	0.95521
M27-G11-8	0	0	98.8705		0.960052
M27-G11-9	0.0294	0.03	99.4173		0.999312
M27-G11-11	0.0507	0	99.5429		0.948941
M27-G11-12	0.0442	0.0844	100.1329		0.991746
M27-G11-13	0.0198	0	99.5849		0.984147
M27-G11-14	0.0433	0	99.8807	BiTe	0.997903
M27-G11-16	0.0434	0	99.474	Pyrite	0.991592
M27-G11-18	0.0229	0.0422	98.4453		0.924264
M27-G11-19	0.0474	0.087	98.5488		0.991836
M27-G11-20	0.0213	0.0171	98.565		0.987378
M27-G11-22	0.0268	0	97.6015	Pyrite, K-Spar	0.961067
M27-G11-23	0.0396	0	98.6843		0.985842
M27-G11-24	0.0255	0.1213	98.9012		0.944107
M27-G11-25	0	0.1162	98.5029		0.988265

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-1	87.0514	12.3082
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-2	86.1721	13.1126
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-3	72.2371	25.9846
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-4	91.76	7.4559
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-5	86.7027	11.8028
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-6	87.8612	10.7209
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-7	85.4929	13.3909
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-8	89.9671	9.9852
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-9	90.6338	8.86
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-10	87.5836	11.8895
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-11	87.2274	12.2092
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-12	87.0822	12.1123
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-13	92.3231	6.5899
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-14	88.9239	10.3286
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-15	87.8916	11.6707
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-16	88.1203	11.3775
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-17	88.0828	11.4757
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-18	91.9042	8.003
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-19	92.6901	6.7692
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-20	89.5218	10.0719
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-21	85.8716	12.7864
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-22	87.5651	11.663
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-23	85.2403	13.1408
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-24	83.606	14.918
Dawson Range	Revenue Ck	Upper Revenue	382172	6913683	8	M27-G12-25	92.7793	7.6579
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M29-G7-1	76.721	22.3349
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-1	83.7495	15.0429
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-2	87.7648	11.9421
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-3	63.0769	35.5317
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-4	77.2772	21.6635
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-5	83.4533	15.605

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M27-G12-1	0	0.0212	99.3808		0.987574
M27-G12-2	0.0321	0	99.3168		0.991059
M27-G12-3	0.0111	0.0531	98.2859		0.986347
M27-G12-4	0.0294	0	99.2453		0.965494
M27-G12-5	0.0127	0.1062	98.6244		0.932101
M27-G12-6	0.0164	0	98.5985		0.995422
M27-G12-7	0.0156	0	98.8994		0.988085
M27-G12-8	0.0174	0	99.9697	Galena, Pyrite	0.982794
M27-G12-9	0.0251	0.0321	99.551		0.989565
M27-G12-10	0.0258	0	99.4989		0.974744
M27-G12-11	0.0351	0	99.4717	Pyrite	0.980749
M27-G12-12	0.0183	0	99.2128		0.994544
M27-G12-13	0.0207	0	98.9337		0.989992
M27-G12-14	0.0325	0	99.285		0.950158
M27-G12-15	0.0571	0	99.6194		0.990682
M27-G12-16	0.0547	0	99.5525		0.984794
M27-G12-17	0.015	0.0192	99.5927		0.949756
M27-G12-18	0.0389	0	99.9461		0.994477
M27-G12-19	0.0265	0	99.4858		0.952707
M27-G12-20	0.0038	0	99.5975		0.978795
M27-G12-21	0.0188	0	98.6768		0.971998
M27-G12-22	0.0312	0	99.2593		0.954183
M27-G12-23	0.0279	0.0487	98.4577		0.934822
M27-G12-24	0	0	98.524		0.998968
M27-G12-25	0.0433	0.1225	100.603	Pyrite	0.983874
M29-G7-1	0.0218	0	99.0777		0.824383
M27-G1-1	0.0276	0	98.82		0.906699
M27-G1-2	0.0358	0	99.7427		0.906886
M27-G1-3	0.0157	0.0615	98.6858		0.787874
M27-G1-4	0	0	98.9407		0.899321
M27-G1-5	0.0222	0	99.0805		0.895832

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-6	83.9341	14.831
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-7	92.4247	8.4732
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-8	88.482	10.333
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-9	98.9657	1.0929
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-10	75.2382	22.9301
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-11	79.4549	20.214
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-12	83.9636	14.8751
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-13	84.7563	14.719
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-14	83.0791	15.9762
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-15	84.2645	14.9823
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-16	76.9021	22.2917
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-17	91.4597	7.8436
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-18	88.0444	11.2775
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-19	66.0979	32.0151
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G1-20	84.2456	15.3935
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-1	86.0577	13.2763
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-2	84.4944	15.0855
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-3	85.3194	14.3399
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-4	85.9329	12.8065
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-5	94.7436	4.9353
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-6	80.8321	18.8194
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-7	81.7147	17.0523
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-8	83.0972	16.68
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-9	86.2616	12.7389
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-10	83.354	14.9422
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-11	95.0358	4.8666
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-12	83.5194	15.8126
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-13	84.4221	13.8022
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-14	90.1301	8.743
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-15	91.7836	8.0148
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-16	78.7324	20.5113

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M27-G1-6	0.0236	0	98.7887		0.784749
M27-G1-7	0.0632	0	100.9611		0.910614
M27-G1-8	0.0376	0	98.8526		0.838211
M27-G1-9	0.1718	0	100.2304		0.909998
M27-G1-10	0.0162	0	98.1845		0.898567
M27-G1-11	0.028	0	99.6969		0.93588
M27-G1-12	0.0222	0	98.8609	K-Spar	0.93521
M27-G1-13	0.0179	0	99.4932		0.853552
M27-G1-14	0.0104	0.021	99.0867		0.813192
M27-G1-15	0.0308	0.0548	99.3324	Pyrite	0.932329
M27-G1-16	0.0227	0.0887	99.3052		0.80959
M27-G1-17	0.0333	0	99.3366		0.944471
M27-G1-18	0.0453	0.0085	99.3757		0.925349
M27-G1-19	0	0	98.113		0.951861
M27-G1-20	0.0151	0.0821	99.7363	Calcite	0.888881
M27-G2-1	0.0308	0	99.3648		0.874489
M27-G2-2	0	0	99.5799		0.97496
M27-G2-3	0.009	0.0717	99.74		0.894655
M27-G2-4	0.0051	0	98.7445		0.883412
M27-G2-5	0.0631	0	99.742		0.952502
M27-G2-6	0	0.0938	99.7453		0.902701
M27-G2-7	0.0186	0.1424	98.928		0.854553
M27-G2-8	0.002	0	99.7792		0.881295
M27-G2-9	0.0441	0	99.0446		0.937884
M27-G2-10	0.0024	0	98.2986	Galena, Chalcopyrite, tetrahedrite	0.929719
M27-G2-11	0.0363	0.1039	100.0426		0.933609
M27-G2-12	0.0046	0.0252	99.3618		0.94762
M27-G2-13	0.1258	0.0423	98.3924		0.870676
M27-G2-14	0.0198	0.0536	98.9465		0.876716
M27-G2-15	0.0594	0.0987	99.9565		0.872552
M27-G2-16	0.0054	0	99.2491	Pyrite	0.973939

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-17	79.39	19.7614
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-18	65.3243	34.1912
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-19	79.4446	19.4308
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-20	78.8103	19.7468
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-21	79.8261	18.1734
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-22	78.4279	20.2018
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-23	91.5796	7.7026
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-24	86.8704	12.0331
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G2-25	88.1384	11.3181
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-1	90.3103	9.8779
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-2	95.7523	4.5512
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-3	80.3483	18.8631
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-4	94.6158	4.9304
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-5	64.0421	33.796
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-6	64.0427	34.7045
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-7	86.8301	11.4848
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-8	84.3876	15.2476
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-9	88.342	11.1811
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-10	81.8149	17.2762
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-11	90.3897	8.6654
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-12	81.5782	17.2506
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-13	88.0887	10.7766
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-14	92.2337	7.7627
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-15	85.1397	13.6169
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-16	94.0793	5.6302
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-17	67.1523	31.4476
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-18	84.5726	14.4875
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-19	80.6908	19.0471
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-20	87.2594	11.0807
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-21	56.9046	41.0417
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-22	89.2867	8.7711

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M27-G2-17	0.044	0	99.1954		0.911471
M27-G2-18	0.026	0	99.5415		0.947915
M27-G2-19	0.0422	0	98.9176		0.97994
M27-G2-20	0.024	0	98.5811		0.87766
M27-G2-21	0.027	0	98.0265		0.874297
M27-G2-22	0	0	98.6297		0.872534
M27-G2-23	0.0919	0.0602	99.4343		0.876635
M27-G2-24	0.0301	0.0743	99.0079		0.919267
M27-G2-25	0.0058	0	99.4623		0.863005
M27-G3-1	0.0386	0	100.2268	Calcite, Galena	0.860559
M27-G3-2	0.035	0	100.3385		0.847812
M27-G3-3	0.0135	0.1375	99.3624		0.893698
M27-G3-4	0.0611	0	99.6073		0.927327
M27-G3-5	0	0	97.8381		0.888119
M27-G3-6	0.0347	0.0199	98.8018		0.84286
M27-G3-7	0.0034	0	98.3183		0.883047
M27-G3-8	0.0237	0	99.6589		0.850484
M27-G3-9	0.0436	0	99.5667		0.919441
M27-G3-10	0	0	99.0911	Pyrite	0.910764
M27-G3-11	0.0227	0	99.0778		0.913288
M27-G3-12	0	0	98.8288		0.899911
M27-G3-13	0.0053	0.1363	99.0069		0.894458
M27-G3-14	0.0275	0	100.0239	Chalcopyrite	0.932446
M27-G3-15	0	0	98.7566	Galena	0.925989
M27-G3-16	0.0616	0	99.7711		0.905664
M27-G3-17	0	0.1264	98.7263		0.909666
M27-G3-18	0.0233	0	99.0834		0.90454
M27-G3-19	0.0164	0	99.7543		0.927402
M27-G3-20	0.0001	0	98.3402		0.897616
M27-G3-21	0.0167	0.0643	98.0273		0.910212
M27-G3-22	0.0388	0.5068	98.6034		0.845106

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-23	81.2962	17.4501
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-24	83.228	15.4335
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G3-25	61.6107	36.8637
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-1	94.4463	4.0028
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-2	82.5362	16.5209
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-3	93.1851	6.7213
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-4	82.2204	16.728
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-5	68.323	30.0281
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-6	91.8539	7.5225
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-7	88.3438	10.7951
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-8	90.1259	9.209
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-9	66.1273	32.8802
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-10-1	63.6228	35.2045
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-10-2	55.4377	43.5988
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-11	83.139	15.3999
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-12	93.4138	6.051
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-13-1	82.1625	17.1789
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-13-2	78.7721	19.7173
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-14	83.8786	15.3646
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-15	95.008	3.592
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-16	84.9528	14.3857
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-17	79.6864	19.1501
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-18	91.7836	7.9793
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-19	83.9531	14.5519
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-20	77.6967	20.1562
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-21	81.7569	18.1985
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-22	96.563	3.4007
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-23	90.4066	8.9996
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-24	91.9112	6.3452
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G4-25	85.4058	12.8489
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-1	92.1053	7.4089

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M27-G3-23	0.0079	0	98.7542		0.862054
M27-G3-24	0.0205	0.0231	98.7051		0.914846
M27-G3-25	0.0002	0.0671	98.5417		0.913913
M27-G4-1	0.025	0.154	98.6281		0.886792
M27-G4-2	0	0	99.0571		0.933335
M27-G4-3	0	0.0754	99.9818		0.848378
M27-G4-4	0.0139	0.0943	99.0566		0.853286
M27-G4-5	0.0134	0.0443	98.4088		0.910017
M27-G4-6	0.0082	0	99.3846		0.860194
M27-G4-7	0.0391	0.0213	99.1993		0.87602
M27-G4-8	0.0288	0.0214	99.3851		0.919439
M27-G4-9	0	0	99.0075		0.864969
M27-G4-10-1	0	0.0079	98.8352		0.937542
M27-G4-10-2	0.0243	0	99.0608		0.937542
M27-G4-11	0.0178	0.0694	98.6261		0.90183
M27-G4-12	0.0089	0.1769	99.6506		0.910431
M27-G4-13-1	0.0704	0	99.4118		0.968053
M27-G4-13-2	0.011	0	98.5004		0.912896
M27-G4-14	0	0.0252	99.2684		0.912896
M27-G4-15	0.0333	0	98.6333		0.902609
M27-G4-16	0.0386	0	99.3771		0.963193
M27-G4-17	0.0027	0	98.8392		0.941472
M27-G4-18	0.0458	0	99.8087	Pyrite	0.881138
M27-G4-19	0.0152	0.0021	98.5223		0.890562
M27-G4-20	0.0272	0.0125	97.8926		0.911621
M27-G4-21	0.0032	0.0021	99.9607		0.848044
M27-G4-22	0.0774	0	100.0411		0.873777
M27-G4-23	0.0207	0	99.4269		0.94981
M27-G4-24	0.2332	0.6136	99.1032		0.880472
M27-G4-25	0.0295	0	98.2842		0.892228
M27-G5-1	0.0331	0	99.5473		0.94918

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-2	68.8568	29.9597
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-3	76.8548	22.104
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-4	90.1665	9.0639
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-5	82.7383	16.3033
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-6	90.7707	8.7854
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-7	97.3991	2.8653
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-8	89.0686	9.2878
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-9	80.2517	19.2128
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-10	77.5197	21.7791
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-11	85.7271	13.4732
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M27-G5-12	83.9812	15.9277
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-1	66.2864	33.6639
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-2	75.7399	23.806
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-3	99.118	1.3797
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-4	82.0475	17.7712
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-5	75.4449	24.0612
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-6	77.3039	22.8717
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-7	82.9357	16.6978
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-8	88.2896	12.4986
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-9	85.7481	15.3473
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-10	83.1942	16.6429
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-11	90.4801	9.9415
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-12	89.6436	9.5146
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-13	91.6937	8.5703
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-14	99.3615	2.5232
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-15	65.0102	34.0853
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-16	85.789	15.2476
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-17	89.5409	10.7031
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-18	86.8666	14.3988
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-19	85.4458	14.9563
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-20	80.0073	20.8154

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M27-G5-2	0	0.0061	98.8226		0.899006
M27-G5-3	0	0	98.9588		0.747676
M27-G5-4	0.0418	0	99.2722		0.78071
M27-G5-5	0.0245	0	99.0661		0.880544
M27-G5-6	0.0411	0	99.5972		0.953634
M27-G5-7	0.0173	0	100.2817		0.884156
M27-G5-8	0.0224	0	98.3788		0.894987
M27-G5-9	0	0	99.4645		0.879752
M27-G5-10	0	0	99.2988		0.944992
M27-G5-11	0.0179	0	99.2182		0.91332
M27-G5-12	0.0094	0	99.9183		0.979392
M28-G7-1	0.0136	0	99.9639	Pyrite	0.872551
M28-G7-2	0.0253	0	99.5712		0.940821
M28-G7-3	0.0473	0.0221	100.5671		0.890857
M28-G7-4	0	0.0909	99.9096		0.856099
M28-G7-5	0.0182	0	99.5243		0.940093
M28-G7-6	0	0	100.1756		0.961783
M28-G7-7	0.0042	0.0424	99.6801		0.885258
M28-G7-8	0.0193	0	100.8075		0.936548
M28-G7-9	0.0603	0	101.1557		0.876821
M28-G7-10	0	0	99.8371		0.883638
M28-G7-11	0.0448	0.0475	100.5139		0.89506
M28-G7-12	0.0402	0	99.1984		0.860999
M28-G7-13	0.0231	0	100.2871		0.881898
M28-G7-14	0.0233	0	101.908		0.845095
M28-G7-15	0	0	99.0955		0.929398
M28-G7-16	0.0062	0	101.0428		0.866345
M28-G7-17	0.0423	0.0323	100.3186		0.924891
M28-G7-18	0.0264	0	101.2918		0.912986
M28-G7-19	0.0024	0.0107	100.4152		0.900155
M28-G7-20	0.0318	0	100.8545	Chalcopyrite	0.970025

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-21	92.7043	8.5908
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-22	97.1834	3.9987
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-23	90.8976	10.4064
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-24	89.4807	11.7634
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G7-25	77.3956	21.9796
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-1	92.4244	8.7889
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-2	89.7308	10.1199
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-3	89.7369	10.1624
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-4	101.049	0.8817
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-5	65.6536	33.9179
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-6	84.1758	16.6564
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-7	95.1136	7.191
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-8	90.7207	10.0943
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-9	88.4646	12.6168
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-10	85.9125	13.7345
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-11	88.6532	11.7733
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-12	68.5121	30.6775
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-13	93.261	6.5413
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-14	85.1626	15.1965
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-15	91.1439	9.6199
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-16	85.1739	15.2043
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-17	92.6249	8.4929
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-18	91.5672	8.5325
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-19	83.9362	16.0362
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-20	86.4963	13.917
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-21	64.8709	34.0992
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-22	94.1002	7.5883
Dawson Range	Seymour Ck	Mid Seymour	385206	6909472	8	M28-G8-23	99.1861	1.2847
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M29-G6-2	80.7524	19.1959
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M29-G6-3	84.0179	15.1955
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-1	60.5464	38.1059

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M28-G7-21	0.0183	0	101.3134		0.839913
M28-G7-22	0.0701	0	101.2522		0.890623
M28-G7-23	0	0	101.304		0.897105
M28-G7-24	0.0422	0.028	101.3143	Arsenopyrite	0.905325
M28-G7-25	0	0.0564	99.4316		0.779821
M28-G8-1	0.0107	0	101.224		0.883462
M28-G8-2	0.019	0	99.8697		0.907334
M28-G8-3	0.0128	0	99.9121		0.890389
M28-G8-4	0.0495	0	101.9802		0.926093
M28-G8-5	0	0.0545	99.626		0.909512
M28-G8-6	0	0.0869	100.9191		0.893779
M28-G8-7	0.035	0.2045	102.5441	Pyrite, Fe-Oxide	0.793575
M28-G8-8	0.0412	0	100.8562		0.874928
M28-G8-9	0.0139	0	101.0953		0.791528
M28-G8-10	0.0041	0	99.6511		0.889829
M28-G8-11	0.0304	0	100.4569		0.845489
M28-G8-12	0.0083	1.1934	100.3913		0.805311
M28-G8-13	0.0411	0	99.8434		0.969509
M28-G8-14	0.0282	0.0128	100.4001		0.94568
M28-G8-15	0.0141	0.0346	100.8125		0.869576
M28-G8-16	0.0098	0.0213	100.4093		0.856252
M28-G8-17	0.0262	0.013	101.157		0.895599
M28-G8-18	0.0739	0	100.1736		0.923127
M28-G8-19	0.0127	0	99.9851		0.912435
M28-G8-20	0.0103	0.1431	100.5667		0.915398
M28-G8-21	0.0098	0.002	98.9819		0.983376
M28-G8-22	0.031	0	101.7195		0.914653
M28-G8-23	0.0578	0	100.5286		0.874243
M29-G6-2	0.0092	0.0583	99.9575		0.904538
M29-G6-3	0.0079	0	99.2213		0.830636
M26-G8-1	0.0102	0	98.6625		0.883579

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-2	85.8621	13.6303
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-3	92.3669	7.5006
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-4	94.4568	4.3744
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-5	82.444	16.6356
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-6	65.2495	32.8323
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-7	82.6181	15.9208
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-8	88.6721	10.3877
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-9	93.9188	4.9672
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-10	66.3935	32.6742
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-11	88.1737	9.7588
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-12	83.7559	15.2868
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-13	98.1172	1.5619
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-14	90.3704	8.5212
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-15	86.0885	13.0532
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-16	81.5723	17.5596
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-17	87.402	12.1831
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-18	81.1111	18.2862
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-19	86.9466	11.5678
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G8-20	85.6753	14.2972
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G9-1	82.2572	16.2961
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G9-2	96.7416	4.2364
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G9-3	88.8832	9.6006
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G9-4	80.8549	17.4266
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G9-5	83.4874	15.6495
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G9-6	82.2575	16.7526
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-1	87.3043	12.3769
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-2	90.156	8.7992
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-3	81.4894	17.0162
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-4	98.9767	1.001
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-5	86.1732	13.0623
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-6	92.1369	6.9016

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M26-G8-2	0.0039	0	99.4963		0.919494
M26-G8-3	0.0151	0	99.8826		0.87887
M26-G8-4	0.0605	0.052	98.9437		0.874312
M26-G8-5	0.0248	0.0063	99.1107		0.86035
M26-G8-6	0.019	0.004	98.1048		0.854872
M26-G8-7	0.0139	0.0609	98.6137		0.923886
M26-G8-8	0.0654	0.0107	99.1359		0.878707
M26-G8-9	0.0005	0	98.8865		0.849707
M26-G8-10	0.0123	0.11	99.19		0.937542
M26-G8-11	0.0208	0	97.9533		0.871992
M26-G8-12	0	0	99.0427		0.937877
M26-G8-13	0.1008	0.0371	99.817		0.952203
M26-G8-14	0.0223	0.2121	99.126	Arsenopyrite	0.904697
M26-G8-15	0.0001	0.0445	99.1863		0.898449
M26-G8-16	0.0042	0	99.1361		0.909637
M26-G8-17	0.0375	0	99.6226		0.873635
M26-G8-18	0.0178	0.025	99.4401		0.867111
M26-G8-19	0.0145	0	98.5289		0.893158
M26-G8-20	0.0298	0	100.0023		0.928475
M26-G9-1	0.021	0	98.5743		0.927973
M26-G9-2	0.0369	0.0195	101.0344		0.854307
M26-G9-3	0.0067	0.0855	98.576		0.891784
M26-G9-4	0.0054	0	98.2869		0.85557
M26-G9-5	0	0	99.1369		0.78459
M26-G9-6	0	0.0608	99.0709		0.858582
M26-G10-1	0.0174	0	99.6986		0.910927
M26-G10-2	0.039	0	98.9942		0.870686
M26-G10-3	0	0.0021	98.5077	Bi-Fe-O	0.859289
M26-G10-4	0.1014	0	100.0791		0.893619
M26-G10-5	0.0177	0	99.2532	Calcite. Galena	0.951085
M26-G10-6	0.0308	0.0086	99.0779		0.879748

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-7	99.0008	0.9939
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-8	85.6369	13.8606
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-9	86.5082	12.1199
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-10	88.5988	10.4381
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-11	96.8889	2.2076
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-12	94.9465	4.4963
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-13	79.9563	18.5435
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-14	89.7511	9.4871
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-15	93.3718	6.4413
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-16	98.2857	0.5607
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-17	81.4258	17.1765
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-18	88.4037	9.9253
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-19	97.6721	1.8753
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-20	82.2588	17.5196
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-21	91.9521	7.6351
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-22	87.059	12.7689
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-23	81.6366	17.6179
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-24	98.3848	0.5534
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G10-25	88.1149	10.5473
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-1	79.7434	19.2057
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-2	80.6647	18.3571
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-3	79.7002	18.6926
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-4	89.9978	9.4183
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-5	87.4948	11.8358
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-6	77.4538	20.2448
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-7	86.2674	13.5295
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-8	81.8216	16.9637
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-9	84.2933	12.8774
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-10	93.4427	5.6071
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-11	92.2812	6.8979
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-12	81.5215	18.5027

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M26-G10-7	0.1118	0	100.1065		0.932191
M26-G10-8	0.0402	0.0423	99.58		0.904835
M26-G10-9	0.0425	0	98.6706	Galena, BiTe	0.889357
M26-G10-10	0.0121	0	99.049		0.919574
M26-G10-11	0.0727	0	99.1692		0.971186
M26-G10-12	0.0803	0.1148	99.6379		0.892934
M26-G10-13	0	0	98.4998		0.904019
M26-G10-14	0.0423	0	99.2805		0.948473
M26-G10-15	0.0223	0	99.8354		0.917254
M26-G10-16	0.033	0.0525	98.9319		0.933359
M26-G10-17	0.0248	0.0774	98.7045		0.951509
M26-G10-18	0.0237	0	98.3527		0.919458
M26-G10-19	0.0347	0.0087	99.5908		0.874542
M26-G10-20	0.0064	0	99.7848	Pyrite	0.896529
M26-G10-21	0.0297	0	99.6169		0.931924
M26-G10-22	0.0349	0	99.8628		0.923393
M26-G10-23	0	0	99.2545		0.944428
M26-G10-24	0.0946	0	99.0328		0.883543
M26-G10-25	0.0362	0	98.6984		0.893712
M26-G11-1	0.0043	0.0312	98.9846		0.977729
M26-G11-2	0.0324	0.0355	99.0897		0.913514
M26-G11-3	0.0041	0	98.3969		0.903059
M26-G11-4	0.0272	0	99.4433		0.873408
M26-G11-5	0.0201	0	99.3507		0.903351
M26-G11-6	0.0252	0.5757	98.2995		0.859637
M26-G11-7	0.0121	0	99.809		0.922013
M26-G11-8	0.0181	0	98.8034	Pyrite	0.836744
M26-G11-9	0.0268	0	97.1975		0.932576
M26-G11-10	0.0506	0	99.1004		0.871941
M26-G11-11	0.0542	0	99.2333		0.905784
M26-G11-12	0.0209	0	100.0451	Pyrite	0.929958

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-13	87.4817	11.0469
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-14	64.4547	34.4906
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-15	90.6542	7.9248
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-16	86.8339	11.9452
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-17	85.6736	13.6362
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-18	90.6735	9.2908
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-19	87.8105	11.4795
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-20	71.4167	27.8314
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-21	87.0097	11.3819
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-22	83.7705	15.0352
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-23	89.7906	8.7842
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-24	99.4671	1.6759
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G11-25	70.4236	28.0734
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-1	82.1226	16.2424
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-2	82.9311	16.0502
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-3	84.6293	13.7166
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-4	88.9761	10.5563
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-5	61.866	34.2931
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-6	66.2625	33.5855
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-7	88.3932	10.411
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-8	62.5145	35.5932
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-9	63.5676	35.4422
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-10-1	77.7959	21.1054
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-10-2	54.5577	43.7405
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-11	89.4766	9.2634
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-12	88.789	9.3122
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-13	85.3899	13.4494
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-14	93.081	6.8905
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-15	64.223	34.5071
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-16	95.9523	4.3667
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-17	79.5013	20.1665

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M26-G11-13	0.0071	0	98.5357		0.90895
M26-G11-14	0.0175	0	98.9628		0.931005
M26-G11-15	0.025	0.0472	98.6512	Galena, Cu-Sb-S	0.899769
M26-G11-16	0.0286	0.0106	98.8183		0.95697
M26-G11-17	0.0232	0	99.333		0.939077
M26-G11-18	0.0318	0	99.9961	Galena, pyrite	0.974798
M26-G11-19	0	0	99.29		0.912378
M26-G11-20	0.0192	0.0223	99.2896		0.855786
M26-G11-21	0.0198	0.1404	98.5518		0.984253
M26-G11-22	0.0346	0	98.8403		0.895969
M26-G11-23	0.0174	0.015	98.6072		0.908759
M26-G11-24	0.0637	0	101.2067		0.935579
M26-G11-25	0.0069	0.0548	98.5587		0.92183
M26-G12-1	0.0053	0.0672	98.4375		0.839798
M26-G12-2	0.041	0	99.0223		0.884724
M26-G12-3	0.0248	0	98.3707		0.859741
M26-G12-4	0.0165	0	99.5489		0.828763
M26-G12-5	0.0275	0	96.1866	Sphalerite, pyrite	0.911684
M26-G12-6	0	0	99.848		0.954427
M26-G12-7	0.0201	0	98.8243		0.965012
M26-G12-8	0	0	98.1077		0.814605
M26-G12-9	0.0263	0	99.0361		0.966036
M26-G12-10-1	0	0	98.9013		0.975218
M26-G12-10-2	0.0122	0	98.3104		0.975218
M26-G12-11	0	0	98.74		0.846137
M26-G12-12	0.0447	0.0385	98.1844	Cu-Sb-S	0.898069
M26-G12-13	0.0047	0	98.844	Pyrite	0.949956
M26-G12-14	0.0355	0.056	100.063		0.983806
M26-G12-15	0	0.1034	98.8335		0.955887
M26-G12-16	0.0092	0	100.3282		0.865001
M26-G12-17	0	0.1433	99.8111		0.955042

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-18	81.6089	17.2439
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-19	63.7455	34.9032
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-20	95.5299	4.1362
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-21	82.125	16.5009
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-22	90.2766	8.9537
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-23	94.9014	4.251
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-24	79.8947	18.2293
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G12-25	72.8005	26.1008
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-1	84.8225	14.8487
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-2	64.4772	34.2116
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-3	65.7143	32.7487
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-4	80.678	17.2612
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-5	86.1407	13.4063
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-6	86.3123	12.7148
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-7	73.6182	25.7291
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-8	83.6468	15.0145
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-9	79.2044	19.4802
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-10	83.8308	14.7755
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-11	91.3391	6.7417
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-12	94.0456	5.117
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-13	91.7724	7.8368
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-14	89.9133	9.2097
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-15	65.0045	34.1522
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M26-G13-16	67.8865	31.0855
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-1	67.0369	32.7556
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-2	83.1767	17.8909
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-3	78.6022	21.4625
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-4	80.9592	19.5786
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-5	84.2704	16.5563
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-6	85.8137	14.4
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-7	88.8197	11.2086

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M26-G12-18	0.0088	0	98.8616		0.848949
M26-G12-19	0	0.0159	98.6646	Pyrite	0.977786
M26-G12-20	0.0849	0.0347	99.7857		0.918066
M26-G12-21	0	0	98.6259		0.929858
M26-G12-22	0.0655	0.0364	99.3322	Pyrite	0.910142
M26-G12-23	0.0287	0.0152	99.1963		0.911342
M26-G12-24	0.0427	0	98.1667	Pyrite	0.918961
M26-G12-25	0	0.0122	98.9135		0.91863
M26-G13-1	0.0147	0	99.6859		0.900131
M26-G13-2	0.0206	0.004	98.7134		0.876852
M26-G13-3	0.0213	0	98.4843	Pyrite	0.89894
M26-G13-4	0	0	97.9392		0.945586
M26-G13-5	0.0143	0.0529	99.6142		0.945815
M26-G13-6	0.0437	0	99.0708		0.936694
M26-G13-7	0.006	0	99.3533		0.907633
M26-G13-8	0.0203	0	98.6816		0.956272
M26-G13-9	0	0.0208	98.7054		0.988179
M26-G13-10	0.0377	0	98.644	Pyrite	0.962607
M26-G13-11	0.0601	0.0495	98.1904		0.868519
M26-G13-12	0.0541	0	99.2167		0.886445
M26-G13-13	0.0551	0	99.6643		0.917268
M26-G13-14	0.0452	0	99.1682		0.977749
M26-G13-15	0.0065	0	99.1632		0.928754
M26-G13-16	0	0	98.972		0.796684
M33-G6-1	0	0	99.7925		0.895211
M33-G6-2	0.0159	0	101.0835	U-Ti-Oxide	0.915833
M33-G6-3	0.0047	0	100.0694		0.920352
M33-G6-4	0.0195	0	100.5573		0.92233
M33-G6-5	0.0244	0.0446	100.8957		0.875503
M33-G6-6	0.0004	0	100.2141		0.865576
M33-G6-7	0.0229	0	100.0512		0.888196

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-8	88.4565	12.3143
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-9	91.0078	10.1515
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-10	89.5546	11.0422
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-11	86.7942	14.3882
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-12	85.7831	15.6573
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-13	83.1996	16.2873
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-14	82.5589	18.7511
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-15	77.5249	21.8112
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-16	85.2611	16.1397
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-17	83.383	17.1225
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-18	88.5438	11.6374
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-19	67.8747	31.5301
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-20	94.9581	2.8954
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-21	91.6326	8.9262
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-22	88.7607	11.6914
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-23	91.299	9.8019
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G6-24	87.3109	12.9326
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-1	81.1345	19.171
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-2	87.5659	13.969
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-3	88.5676	12.4423
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-4	86.203	14.1556
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-5	74.9964	25.647
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-6	84.9704	15.2438
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-7	68.5644	29.6958
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-8	90.0299	9.7521
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-9	92.9665	8.2317
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-10	89.2813	10.829
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-11	84.2901	16.3262
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-12	85.6749	15.096
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-13	92.8809	9.0603
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-14	88.2173	12.5027

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M33-G6-8	0.0169	0.0451	100.8328		0.899679
M33-G6-9	0.0262	0	101.1855	Pyrite	0.879449
M33-G6-10	0.0107	0	100.6075		0.849601
M33-G6-11	0.0175	0.2048	101.4047		0.912577
M33-G6-12	0.0126	0	101.453		0.916022
M33-G6-13	0.0285	0	99.5154		0.838977
M33-G6-14	0.0453	0	101.3553	Pyrite	0.890311
M33-G6-15	0.0137	0	99.3498		0.934141
M33-G6-16	0.0255	0	101.4263		0.90591
M33-G6-17	0.0505	0.1313	100.6873		0.854843
M33-G6-18	0.0505	0	100.2317		0.949988
M33-G6-19	0.0289	0.0142	99.4479		0.928624
M33-G6-20	0	3.145	100.9985		0.980552
M33-G6-21	0.0163	0	100.5751		0.906621
M33-G6-22	0.05	0	100.5021	Fe-Oxide	0.89694
M33-G6-23	0.031	0	101.1319		0.932372
M33-G6-24	0.0211	0.0236	100.2882		0.922009
M33-G7-1	0.0226	0	100.3281		0.82254
M33-G7-2	0.0235	0	101.5584		0.953037
M33-G7-3	0.0183	0.0687	101.0969		0.948668
M33-G7-4	0	0.0256	100.3842	Pyrite	0.915077
M33-G7-5	0.0216	0	100.665		0.945892
M33-G7-6	0.0268	0	100.241		0.923043
M33-G7-7	0	0.5479	98.8081		0.881676
M33-G7-8	0.0432	0	99.8252		0.970258
M33-G7-9	0.04	0	101.2382		0.854092
M33-G7-10	0.0293	0.0108	100.1504		0.941659
M33-G7-11	0.0252	0	100.6415		0.926624
M33-G7-12	0.003	0	100.7739		0.951111
M33-G7-13	0.0491	0.0195	102.0098		0.95529
M33-G7-14	0.2095	0	100.9295		0.887276

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-15	86.6982	13.4778
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-16	93.9387	6.9342
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-17	96.3311	4.6742
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-18	81.5918	18.2912
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-19	97.8217	3.5302
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-20	87.6541	12.8985
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-21	82.4393	17.1437
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-22	85.5585	15.1017
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-23	95.3023	6.3159
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-24	86.377	14.3658
Dawson Range	Seymour Ck	Bow Camp	385087	6909841	8	M33-G7-25	87.9219	10.9656
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-1	95.5065	4.4912
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-2	75.7181	24.04
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-3	72.1262	27.0844
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-4	74.6657	24.4499
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-5	90.9796	8.4015
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-6	81.6057	17.2554
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-7	75.3262	23.8033
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-8	96.935	2.5915
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-9	80.2622	18.4954
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-10	91.4859	8.0557
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-11	77.8634	22.4576
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-12	74.1583	24.9669
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M26-G6-13	77.0047	22.7533
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-1	78.312	21.6725
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-2	77.96	22.2248
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-3	84.0434	16.0579
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-4	77.9078	21.6956
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-5	74.9726	25.0108
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-6	70.7989	28.5646
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-7	74.2163	26.0651

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M33-G7-15	0.0051	0	100.1811		0.905431
M33-G7-16	0.0282	0	100.9011		0.924161
M33-G7-17	0.0644	0	101.0697		0.873782
M33-G7-18	0	0	99.883		0.941171
M33-G7-19	0.1024	0.2285	101.6828		0.816047
M33-G7-20	0.0293	0	100.5819	Pyrite	0.961282
M33-G7-21	0.0052	0.0678	99.656		0.896426
M33-G7-22	0.0157	0.0916	100.7675		0.914032
M33-G7-23	0.0567	0	101.6749		0.882027
M33-G7-24	0.0128	0.064	100.8196		0.914175
M33-G7-25	0.0057	0	98.8932		0.920849
M26-G6-1	0.0325	0	100.0302		0.845543
M26-G6-2	0	0.0206	99.7787		0.904452
M26-G6-3	0.0111	0	99.2217		0.917763
M26-G6-4	0.0186	0	99.1342		0.943291
M26-G6-5	0.0545	0	99.4356	Galena	0.940513
M26-G6-6	0.0161	0.0482	98.9254		0.966916
M26-G6-7	0	0	99.1295		0.963493
M26-G6-8	0.1117	0.109	99.7472	La-Ce-Nd-P (Phosphate)	0.932705
M26-G6-9	0.0043	0	98.7619		0.982511
M26-G6-10	0.0268	0	99.5684		0.889122
M26-G6-11	0.0056	0	100.3266		0.993999
M26-G6-12	0.0221	0.0636	99.2109		0.947621
M26-G6-13	0.0162	0	99.7742		0.967218
M28-G1-1	0.0025	0	99.987		0.870738
M28-G1-2	0.0017	0.1148	100.3013		0.883125
M28-G1-3	0	0	100.1013		0.848783
M28-G1-4	0	0.0042	99.6076		0.976039
M28-G1-5	0.012	0	99.9954		0.923195
M28-G1-6	0	0	99.3635		0.962836
M28-G1-7	0	0.0227	100.3041		0.916946

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-8	73.2776	25.276
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-9	89.4125	11.0391
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-10	90.5339	10.862
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-11	59.9693	40.0889
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-12	90.0922	9.7931
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-13	74.7697	23.7703
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-14	73.0215	26.6049
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-15	73.7969	26.1692
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-16	69.9189	30.3267
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-17	87.2283	14.275
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-19	88.1072	12.4794
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-20	75.7403	23.5358
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-21	66.8708	32.4422
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-22	69.1204	29.9704
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-23	60.4388	38.7085
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-24	71.9785	27.9912
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G1-25	94.7774	6.244
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-1	86.2291	14.0621
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-2	88.4981	11.6301
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-3	76.1105	23.1128
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-5	85.7004	14.6677
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-6	85.6468	15.4621
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-7	94.0306	5.9151
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-8	90.814	10.0024
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-9	94.0556	6.9086
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-10	81.0988	17.9983
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-11	88.6835	11.9336
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-12	82.3766	17.5284
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-13	73.0856	26.4436
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-14	73.9066	25.4839
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-15	86.0032	14.6256

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M28-G1-8	0.0042	0	98.5578		0.909306
M28-G1-9	0.022	0.0302	100.5038		0.970025
M28-G1-10	0.0138	0.0862	101.4959		0.927559
M28-G1-11	0	0	100.0582		0.944009
M28-G1-12	0.0095	0	99.8948		0.929728
M28-G1-13	0	0	98.54		0.942841
M28-G1-14	0.0324	0	99.6588		0.954057
M28-G1-15	0	0	99.9661		0.900536
M28-G1-16	0	0	100.2456		0.912691
M28-G1-17	0	0	101.5033		0.920145
M28-G1-19	0	0	100.5866		0.934332
M28-G1-20	0	0	99.2761		0.935038
M28-G1-21	0	0	99.313		0.903515
M28-G1-22	0.016	0	99.1068		0.996787
M28-G1-23	0	0.0159	99.1632		0.91917
M28-G1-24	0.0232	0	99.9929		0.95012
M28-G1-25	0.0295	0	101.0509		0.881216
M28-G2-1	0.0006	0	100.2918		0.906658
M28-G2-2	0.0018	0	100.13		0.971305
M28-G2-3	0	0	99.2233		0.965409
M28-G2-5	0.0519	0	100.42		0.970252
M28-G2-6	0	0	101.1089		0.91786
M28-G2-7	0.0386	0.0087	99.993		0.897274
M28-G2-8	0.0363	0	100.8527		0.959238
M28-G2-9	0.0681	0.085	101.1173		0.96771
M28-G2-10	0.0316	0	99.1287		0.842875
M28-G2-11	0.0354	0.0924	100.7449		0.981752
M28-G2-12	0.003	0	99.908		0.951518
M28-G2-13	0	0.0495	99.5787		0.942106
M28-G2-14	0	0	99.3905		0.908425
M28-G2-15	0.0035	0	100.6323		0.925271

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-16	92.2372	8.217
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-17	74.6038	25.3375
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-18	75.7835	24.4318
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-19	83.1637	17.0136
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-20	80.1467	19.9479
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-21	68.5161	30.8334
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-22	92.9848	8.4005
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-23	85.0522	15.6115
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-24	69.9311	29.0108
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G2-25	91.5634	9.2138
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-5	66.2244	31.9391
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-6	93.7899	6.8375
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-7	94.0714	6.4041
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-8	84.3457	15.6272
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-11	77.4587	22.2465
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-12	76.0624	23.6553
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-13	80.4294	19.3618
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-14	81.5074	18.0009
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-15	78.5704	20.8798
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-16	86.9129	14.1334
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-17	86.2386	13.6871
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-18	86.206	13.6267
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-20	88.2271	11.9846
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-22	84.6827	15.8219
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-23	91.0458	9.9944
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G3-25	80.7627	17.2188
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-2	74.7807	25.1855
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-3	99.1275	2.7644
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-4	89.244	11.8756
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-7	83.2058	16.8731
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-13	89.8422	11.1853

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M28-G2-16	0.0284	0	100.4826		0.9006
M28-G2-17	0	0	99.9413		0.97275
M28-G2-18	0.0059	0.1204	100.3416		0.952153
M28-G2-19	0.0102	0	100.1875		0.968941
M28-G2-20	0	0	100.0946	Pyrite	0.941709
M28-G2-21	0	0.0204	99.3699		0.960398
M28-G2-22	0.0026	0	101.3879		0.934887
M28-G2-23	0.0115	0	100.6752		0.879592
M28-G2-24	0	0.0348	98.9767		0.920707
M28-G2-25	0	0	100.7772		0.959397
M28-G3-5	0.0131	0	98.1766		0.971263
M28-G3-6	0.0347	0	100.6621	Arsenopyrite	0.94875
M28-G3-7	0.041	0	100.5165		0.931543
M28-G3-8	0.0216	0	99.9945		0.946193
M28-G3-11	0	0.0334	99.7386		0.956167
M28-G3-12	0	0	99.7177		0.905305
M28-G3-13	0.019	0	99.8102		0.899474
M28-G3-14	0.0277	0.0612	99.5972		0.898818
M28-G3-15	0	0	99.4502		0.892903
M28-G3-16	0.0006	0.0256	101.0725		0.951126
M28-G3-17	0.0083	0	99.934		0.98166
M28-G3-18	0.0246	0.0385	99.8958		0.930349
M28-G3-20	0.0139	0	100.2256		0.929368
M28-G3-22	0.006	0.0383	100.5489		0.929897
M28-G3-23	0.0155	0	101.0557		0.959287
M28-G3-25	0.0144	0.0952	98.0911		0.980154
M28-G4-2	0	0.0124	99.9786		0.993992
M28-G4-3	0.0744	0	101.9663		0.91835
M28-G4-4	0.0159	0.086	101.2215		0.939481
M28-G4-7	0	0	100.0789		0.94495
M28-G4-13	0.0138	0	101.0413		0.931355

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-14	87.5487	12.0556
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-15	83.7986	16.3417
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-16	87.8511	11.9765
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-18	88.8813	11.7658
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-20	77.9736	21.8142
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-22	62.9277	36.0785
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-23	86.7916	13.7923
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G4-25	84.1535	16.3604
Dawson Range	Seymour Ck	Upper Seymour	389426	6904891	8	M28-G5-5	92.9174	8.0098
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-1	80.9015	17.6826
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-2	84.3809	13.9161
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-3	91.944	6.624
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-4	64.453	34.8585
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-5	87.3801	11.5903
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-6	87.0838	12.2064
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-7	90.3726	8.1366
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-8	98.0633	2.0119
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-9	96.2905	3.5044
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-10	93.3875	7.038
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-11	50.4379	41.4854
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-12	75.8898	21.8794
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-13	80.1147	18.5637
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-14	98.0394	1.5249
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-15	84.1052	15.1615
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-16	88.4756	10.9902
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-17	94.285	5.2409
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-18	77.8064	19.7898
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-19	82.7223	16.5892
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-20	92.8236	6.1562
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-21	65.4624	33.4994
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-22	91.6948	7.9986

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M28-G4-14	0.0256	0	99.6299		0.967751
M28-G4-15	0.0377	0	100.178		0.940967
M28-G4-16	0.0296	0	99.8572		0.80314
M28-G4-18	0.0284	0	100.6755		0.920652
M28-G4-20	0	0	99.7878		0.947251
M28-G4-22	0.0002	0	99.0064		0.939785
M28-G4-23	0.0009	0	100.5848		0.977253
M28-G4-25	0	0.0658	100.5797		0.969277
M28-G5-5	0.0569	0.0261	101.0102		0.952937
M27-G6-1	0.0179	0.0042	98.6062		0.901822
M27-G6-2	0.0205	0.1098	98.4273		0.840962
M27-G6-3	0.0326	0.0517	98.6523		0.944642
M27-G6-4	0.0195	0.0736	99.4046	Calcite	0.907865
M27-G6-5	0.0467	0.0701	99.0872		0.877177
M27-G6-6	0.0162	0.0658	99.3722		0.923314
M27-G6-7	0.0334	0	98.5426		0.860056
M27-G6-8	0.0505	0.0284	100.1541		0.864301
M27-G6-9	0.0122	0	99.8071		0.891111
M27-G6-10	0.0754	0.0151	100.516		0.868295
M27-G6-11	0.0023	5.9686	97.8942		0.896293
M27-G6-12	0.0291	0	97.7983		0.945876
M27-G6-13	0.0367	0	98.7151		0.902638
M27-G6-14	0.0495	0	99.6138		0.877691
M27-G6-15	0.036	0	99.3027		0.926712
M27-G6-16	0.0174	0.0383	99.5215		0.840835
M27-G6-17	0.038	0.0238	99.5877		0.930823
M27-G6-18	0.024	0.137	97.7572		0.838349
M27-G6-19	0.0234	0	99.3349		0.950415
M27-G6-20	0.1425	0	99.1223		0.944425
M27-G6-21	0.011	0.1358	99.1086		0.912129
M27-G6-22	0.0313	0.0601	99.7848		0.834063

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-23	75.4142	24.0511
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-24	73.6881	25.0871
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G6-25	84.0578	15.141
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-1	80.8326	17.8319
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-2	91.2026	7.2393
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-3	72.4666	26.4475
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-4	59.3683	38.8558
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-5	64.979	32.8392
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-6	72.5593	26.7063
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-7	83.4103	15.6857
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-8	89.4648	9.6693
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-9	89.2281	11.385
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-10	89.7541	8.7129
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-11	78.1177	21.5419
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-12	87.1905	11.275
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-13	83.6421	15.5532
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-14	91.5129	7.4371
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-15	63.9345	34.238
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-16	84.1599	14.1047
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-17-1	66.1321	32.0666
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-17-2	53.2886	38.6039
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-18	82.0044	17.1129
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-19	62.8318	35.1109
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G7-20	85.4339	14.3811
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-1	93.4664	6.5039
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-2	82.9347	17.8368
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-3	87.5287	11.7403
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-4	81.7768	17.7002
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-5	80.9963	17.9739
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-6	93.5223	6.1113
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-7	84.9403	14.012

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M27-G6-23	0.0213	0.1232	99.6098		0.95334
M27-G6-24	0.0365	0	98.8117		0.944189
M27-G6-25	0.0502	0	99.249	Galena	0.854074
M27-G7-1	0.009	0.1107	98.7842		0.893999
M27-G7-2	0.0673	0	98.5092		0.812647
M27-G7-3	0	0	98.9141		0.861154
M27-G7-4	0	0.6545	98.8786		0.933336
M27-G7-5	0	0.1098	97.928		0.835505
M27-G7-6	0.0016	0	99.2672		0.890308
M27-G7-7	0.0027	0.0273	99.126		0.898961
M27-G7-8	0.0473	0	99.1814		0.831448
M27-G7-9	0.0017	0	100.6148		0.813111
M27-G7-10	0.0316	0	98.4986		0.807535
M27-G7-11	0.0373	0	99.6969		0.914267
M27-G7-12	0.0459	0	98.5114		0.913803
M27-G7-13	0.015	0.0589	99.2692		0.848312
M27-G7-14	0.0817	0.043	99.0747		0.871402
M27-G7-15	0.0225	0.006	98.201		0.818984
M27-G7-16	0.0007	0	98.2653		0.898871
M27-G7-17-1	0	0.01	98.2087		0.891928
M27-G7-17-2	0.0021	0.0117	91.9063		0.891928
M27-G7-18	0.0164	0	99.1337		0.766109
M27-G7-19	0.028	0.0377	98.0084		0.818345
M27-G7-20	0.0157	0	99.8307		0.852394
M27-G8-1	0.0507	0.0841	100.1051		0.865948
M27-G8-2	0	0.0105	100.782		0.890427
M27-G8-3	0.0242	0	99.2932		0.891454
M27-G8-4	0.0265	0.0126	99.5161		0.941958
M27-G8-5	0.0214	0	98.9916		0.904574
M27-G8-6	0.1065	0	99.7401		0.960718
M27-G8-7	0.0026	0	98.9549		0.869586

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-8	75.7014	23.0226
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-9	76.5639	22.3618
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-10	88.4948	11.3248
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-11	84.1102	14.936
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-12	73.5091	26.5039
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-13	74.6353	23.7952
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-14	82.9136	16.6179
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M27-G8-15	79.0567	19.782
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-1	65.8209	33.6235
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-2	78.4771	21.2372
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-3	92.3722	7.6667
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-4	85.8137	14.4591
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-5	66.7305	32.9821
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-6	88.608	11.9958
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-7	66.3976	33.1871
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-8	96.2534	3.7412
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-9	89.4583	11.0544
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-10	87.9334	12.1609
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-11	85.4918	14.8536
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-12	82.8231	16.7664
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-13	88.9852	11.5535
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-14	88.6301	12.2686
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-15	91.6446	9.5812
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-16	100.3739	1.3896
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-17	74.4563	24.4728
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-18	82.55	17.9222
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-19	64.4571	34.4874
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-20	83.6464	15.9323
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-21	95.3392	5.4834
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-22	94.1361	7.1275
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-23	82.6264	16.9833

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M27-G8-8	0.0113	0	98.7353		0.899732
M27-G8-9	0.0084	0.0454	98.9795		0.934133
M27-G8-10	0.0314	0.0723	99.9233		0.928987
M27-G8-11	0.0371	0.1263	99.2096		0.885008
M27-G8-12	0	0	100.013		0.901197
M27-G8-13	0.0267	0.0801	98.5373		0.930084
M27-G8-14	0.0012	0	99.5327		0.949102
M27-G8-15	0.0018	0.0665	98.907		0.838769
M33-G1-1	0.0168	0.0061	99.4673		0.960143
M33-G1-2	0	0	99.7143		0.927083
M33-G1-3	0.0376	0	100.0765		0.913531
M33-G1-4	0.0138	0	100.2866		0.918836
M33-G1-5	0	0.0647	99.7773		0.916839
M33-G1-6	0.0074	0	100.6112		0.90822
M33-G1-7	0	0	99.5847		0.906171
M33-G1-8	0.057	1.03	101.0816		0.85139
M33-G1-9	0.0175	0	100.5302		0.921875
M33-G1-10	0.0201	0	100.1144		0.920963
M33-G1-11	0	0	100.3454		0.800376
M33-G1-12	0.0271	0.0021	99.6187		0.864548
M33-G1-13	0.0258	0	100.5645		0.872499
M33-G1-14	0.0189	0.0064	100.924		0.896894
M33-G1-15	0.0133	0	101.2391		0.881027
M33-G1-16	0.0416	0.0442	101.8493		0.891713
M33-G1-17	0.0053	0	98.9344		0.918773
M33-G1-18	0.0012	0	100.4734		0.860645
M33-G1-19	0.0137	0.0785	99.0367		0.801184
M33-G1-20	0.0133	0.1168	99.7088		0.88257
M33-G1-21	0.0668	0.0328	100.9222		0.877044
M33-G1-22	0.0335	0.0588	101.3559		0.864805
M33-G1-23	0.0162	0.0085	99.6344		0.829586

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-24	65.5496	33.7663
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G1-25	81.2677	18.5453
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-1	92.5509	8.5027
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-2	86.3929	12.9018
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-3	85.8801	13.7102
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-4	90.1462	11.4171
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-5	88.2051	11.4663
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-6	90.2668	10.8224
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-7	93.2313	7.8495
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-8	83.3089	17.1703
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-9	79.3853	20.7642
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-10	81.5465	20.0859
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-11	74.6405	23.7442
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-12	86.8809	13.7913
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-13	81.8993	18.4651
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-14	94.6166	6.4976
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-15	83.2199	17.1959
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-16	98.2952	3.3557
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-17	67.8722	31.6986
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-18	89.8011	11.2879
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-19	76.4262	23.3434
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-20	77.937	22.4135
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-21	90.0111	10.4049
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-22	94.8459	6.0994
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-23	91.719	8.4279
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-24	83.6362	16.9873
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G2-25	74.1247	24.7204
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-1	84.2129	15.4977
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-2	81.2681	18.1586
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-3	95.9428	0.9449
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-4	97.8239	4.3938

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M33-G1-24	0.0209	0	99.3368		0.941734
M33-G1-25	0.01	0	99.823		0.959831
M33-G2-1	0.0525	0.0477	101.1538		0.896185
M33-G2-2	0.0067	0	99.3014		0.901198
M33-G2-3	0.0144	0.0171	99.6218		0.865831
M33-G2-4	0.0222	0	101.5855		0.964066
M33-G2-5	0.0343	0	99.7057		0.876204
M33-G2-6	0.0246	0.028	101.1418		0.850327
M33-G2-7	0.0363	0	101.1171		0.886179
M33-G2-8	0.012	0	100.4912		0.860994
M33-G2-9	0	0	100.1495	Pyrite	0.921196
M33-G2-10	0	0	101.6324		0.948797
M33-G2-11	0.017	0	98.4017		0.963577
M33-G2-12	0.0108	0	100.683		0.867315
M33-G2-13	0.0229	0	100.3873		0.859598
M33-G2-14	0.0557	0	101.1699		0.896607
M33-G2-15	0.0084	0	100.4242		0.9171
M33-G2-16	0.0421	0	101.693		0.880614
M33-G2-17	0.0126	0.0386	99.622		0.854236
M33-G2-18	0.0355	0	101.1245		0.904268
M33-G2-19	0.0021	0.0395	99.8112		0.802863
M33-G2-20	0.0072	0.0918	100.4495		0.915177
M33-G2-21	0.013	0.1919	100.6209		0.966434
M33-G2-22	0.0095	0	100.9548		0.8577
M33-G2-23	0.0447	0.0802	100.2718	Pyrite	0.876784
M33-G2-24	0	0.036	100.6595		0.889216
M33-G2-25	0	0.0166	98.8617		0.892242
M33-G3-1	0.0327	0.0021	99.7454		0.941503
M33-G3-2	0.0113	0	99.438		0.88516
M33-G3-3	4.0936	0.1107	101.092		0.899552
M33-G3-4	0.0477	0.0088	102.2742		0.953834

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-5	99.6767	1.7463
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-6	91.6862	8.2378
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-7	69.3139	30.5742
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-8	77.1114	22.4283
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-9	88.2327	12.3564
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-10	99.1394	2.2285
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-11	79.0928	20.2685
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-12	61.2808	38.7205
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-15	84.8354	15.4378
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-16	84.702	16.1533
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-17	77.7959	21.6323
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-18	85.6424	14.5267
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-19	90.5665	11.084
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-20	54.1509	45.1835
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-21	87.2515	12.6641
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-22	98.7016	1.6236
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-23	90.1334	11.4912
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-24	92.486	8.6433
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G3-25	80.97	18.932
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-1	79.1176	20.5756
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-2	99.695	1.3483
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-3	56.2387	43.9734
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-4	70.6103	29.913
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-6	97.6826	2.5983
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-7	67.1772	32.203
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-8	93.058	7.5051
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-9	81.8221	17.6012
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-10	94.5282	6.0157
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-11	100.0077	1.2922
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-12	81.6376	18.5034
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-13	90.1401	10.6716

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M33-G3-5	0	0.0773	101.5003		0.94142
M33-G3-6	0.0118	0.1063	100.0421		0.91599
M33-G3-7	0.0112	0.0428	99.9421		0.898635
M33-G3-8	0.0285	0.0271	99.5953		0.892636
M33-G3-9	0.0127	0	100.6018		0.838048
M33-G3-10	0.0663	0.0838	101.518		0.899416
M33-G3-11	0.0112	0.0189	99.3914		0.980972
M33-G3-12	0.0124	0	100.0137		0.926318
M33-G3-15	0.0094	0	100.2826		0.802422
M33-G3-16	0	0.0574	100.9127		0.824205
M33-G3-17	0	0	99.4282		0.84407
M33-G3-18	0.0208	0	100.1899		0.911896
M33-G3-19	0.0035	0	101.654		0.918864
M33-G3-20	0	0.0292	99.3636		0.857278
M33-G3-21	0.0154	0	99.931		0.911432
M33-G3-22	0.0551	0.2603	100.6406		0.901213
M33-G3-23	0.0188	0	101.6434		0.870788
M33-G3-24	0.0289	0	101.1582		0.95373
M33-G3-25	0	0	99.902		0.925064
M33-G4-1	0.0118	0	99.705		0.913856
M33-G4-2	0.0639	0	101.1072		0.860493
M33-G4-3	0	0.1351	100.3472		0.891782
M33-G4-4	0	0.0694	100.5927		0.92944
M33-G4-6	0.0316	0	100.3125		0.925361
M33-G4-7	0	0	99.3802		0.819695
M33-G4-8	0.0572	0	100.6203		0.892497
M33-G4-9	0	0	99.4233		0.870144
M33-G4-10	0.0404	0	100.5843		0.897856
M33-G4-11	0.0765	0	101.3764		0.883144
M33-G4-12	0	0.0042	100.1452		0.905512
M33-G4-13	0.1129	0	100.9246		0.870423

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-14	77.932	23.0251
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-15	73.4032	26.4527
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-16	79.0072	21.5876
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-17	78.8958	21.3162
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-18	80.8352	19.2487
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-19-1	83.3348	17.2041
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-19-2	62.6356	36.602
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-20	72.4439	27.4133
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-21	91.7216	9.5832
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-22	93.0284	8.2801
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-23	91.9482	7.9831
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-24	97.4779	3.925
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G4-25	87.0483	13.2768
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-1	92.9318	8.3552
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-2	69.4301	30.2431
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-3	91.3673	9.0637
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-4	79.4563	21.0753
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-5	82.8606	17.1405
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-6	98.9972	1.5171
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-7	78.5434	21.9267
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-9	73.0191	27.075
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-10	90.1215	10.3259
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-11	90.9548	9.7245
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-12	98.7911	2.9221
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-13	98.095	2.4888
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-14	89.6376	11.0172
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-15	86.3243	14.1029
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-16	84.5608	15.1481
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-17	82.0705	16.6566
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-19	84.9061	15.2675
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-20	79.7109	20.4296

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M33-G4-14	0	0	100.9571		0.867685
M33-G4-15	0	0.0536	99.9095		0.919232
M33-G4-16	0.0157	0.0418	100.6523		0.862479
M33-G4-17	0.0029	0	100.2149		0.918239
M33-G4-18	0	0.0758	100.1597		0.704838
M33-G4-19-1	0	0.0847	100.6236		0.923589
M33-G4-19-2	0	0	99.2376		0.925245
M33-G4-20	0	0.0596	99.9168		0.925069
M33-G4-21	0.0269	0	101.3317		0.900711
M33-G4-22	0.0384	0	101.3469		0.893627
M33-G4-23	0.012	0	99.9433		0.862849
M33-G4-24	0.4093	0	101.8122		0.832086
M33-G4-25	0.0622	0	100.3873		0.916183
M33-G5-1	0.0533	0.0412	101.3815		0.836667
M33-G5-2	0.0094	0.0714	99.754		0.852971
M33-G5-3	0.0396	0.0281	100.4987		0.868906
M33-G5-4	0.0203	0	100.5519		0.949258
M33-G5-5	0.0051	0	100.0062		0.93867
M33-G5-6	0.1203	0.011	100.6456		0.864471
M33-G5-7	0	0	100.4701		0.968932
M33-G5-9	0	0	100.0941	Pyrite	0.972439
M33-G5-10	0.0401	0	100.4875		0.869151
M33-G5-11	0	0.0022	100.6815		0.861131
M33-G5-12	0.0608	0.0792	101.8532		0.898193
M33-G5-13	0.8644	0.3106	101.7588		0.826261
M33-G5-14	0.0025	0.0215	100.6788		0.922788
M33-G5-15	0.0217	0.0491	100.498		0.825433
M33-G5-16	0.0276	0	99.7365		0.944502
M33-G5-17	0.0012	0	98.7283		0.904899
M33-G5-19	0.0278	0	100.2014		0.90452
M33-G5-20	0	0.0105	100.151		0.902507

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-23	74.7003	24.7385
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-24	77.5732	22.414
Dawson Range	Seymour Ck	Lower Seymour	387234	6914319	8	M33-G5-25	88.9712	12.2095
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-1	81.4303	17.7726
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-2	80.6781	18.2264
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-3	87.7596	11.076
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-4	82.587	16.5616
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-5	81.4209	17.9895
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-6	83.6502	15.3729
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-7	91.2897	7.9668
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-8	90.4318	9.4491
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-9	96.201	3.0809
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-10	85.1112	13.4256
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-11	83.9169	14.3109
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-12	85.5304	13.9421
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M26-G7-13	87.9802	10.3988
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-1	83.2271	16.7584
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-2	82.0876	18.5079
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-3	92.3073	9.6487
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-4	74.9335	25.0162
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-5	83.0137	16.6824
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-6	84.254	16.3181
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-7	89.9736	9.3588
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-8	95.3571	5.6802
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-9	77.3476	22.7
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-10	88.9826	11.8836
Dawson Range	Seymour Ck	Gouter Ck	387068	6907414	8	M28-G6-11	75.0461	24.6322
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM6G21	86.6093	13.9578
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM6G22	94.6985	5.4808
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM6G23	98.4746	2.1381
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM6G24	93.6386	5.4456

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
M33-G5-23	0.0069	0.029	99.4747		0.920973
M33-G5-24	0.0057	0	99.9929		0.963949
M33-G5-25	0.0389	0	101.2196		0.945211
M26-G7-1	0.0025	0	99.2054		0.979854
M26-G7-2	0.0288	0	98.9333		0.964569
M26-G7-3	0	0	98.8356		0.972437
M26-G7-4	0.0316	0.0105	99.1907		0.975209
M26-G7-5	0	0.0084	99.4188		0.948071
M26-G7-6	0.0353	0	99.0584		0.967795
M26-G7-7	0.0771	0	99.3336	Galena	0.904039
M26-G7-8	0.0167	0	99.8976		0.966542
M26-G7-9	0.0434	0	99.3253	Pyrite	0.991626
M26-G7-10	0	0	98.5368		0.959875
M26-G7-11	0.0075	0	98.2353		0.831667
M26-G7-12	0.0136	0.152	99.6381		0.96964
M26-G7-13	0.0321	0.0085	98.4196		0.920779
M28-G6-1	0.0267	0.0233	100.0355		0.931387
M28-G6-2	0	0	100.5955		0.968878
M28-G6-3	0.0349	0.173	102.1639		0.878587
M28-G6-4	0.0176	0.0787	100.046		0.996407
M28-G6-5	0.02	0	99.7161		0.956131
M28-G6-6	0.044	0.0382	100.6543		0.954678
M28-G6-7	0.0491	0	99.3815		0.948947
M28-G6-8	0.0526	0	101.0899		0.972466
M28-G6-9	0.0214	0.0542	100.1232		0.996453
M28-G6-10	0.0125	0	100.8787		0.886782
M28-G6-11	0	0.0352	99.7135		0.832216
YGP2011TWM6G21	0.0265	0	100.5936		0.975639
YGP2011TWM6G22	0.0166	0	100.1959		0.953575
YGP2011TWM6G23	0.0544	0	100.6671	BiCO3	0.983643
YGP2011TWM6G24	0.0288	0	99.113		0.879423

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G91	86.925	11.1577
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G92	80.9758	17.6573
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G93	82.909	16.2565
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G94	91.4278	8.0087
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G94 - 2nd phase	90.2094	8.9622
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G95	91.4282	7.8016
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G96	91.2722	8.7131
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G97	93.5305	4.944
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G98	94.7471	4.4189
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G99	89.1298	8.9657
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G910	93.2266	6.0986
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G911	90.6947	9.4211
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G912	92.627	7.609
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G913	89.1827	9.9398
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G914	97.5422	2.9387
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G81	87.8478	12.1838
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G82	90.4774	10.0199
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G83	85.6406	13.4549
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G84	90.0134	9.6642
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G85	97.0083	3.6967
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G86	90.341	10.1042
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G87	90.4456	9.3869
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G88	95.1969	4.0477
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G89	95.1758	5.9396
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G810	95.0977	4.5986
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G811	90.666	7.2693
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G812	90.6723	7.8923
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G813	90.0208	8.9035
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G814	93.2536	8.5148
Dawson Range	Mechanic Ck	Mid Mechanic	380235	6914139	8	YGP2011TWM8G815	72.8998	25.1597
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM6G101	91.3214	7.0484

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM8G91	0.0369	0	98.1196		0.995284
YGP2011TWM8G92	0.0118	0	98.6449		0.990647
YGP2011TWM8G93	0.0044	0	99.1699		0.932721
YGP2011TWM8G94	0.0333	0.04	99.5098		0.940947
YGP2011TWM8G94 - 2nd phase	0.0214	0	99.193		0.940947
YGP2011TWM8G95	0.0323	0	99.2621		0.958813
YGP2011TWM8G96	0.0621	0	100.0474		0.946123
YGP2011TWM8G97	0.078	0.085	98.6375		0.954262
YGP2011TWM8G98	0.0358	0.0045	99.2063		0.987857
YGP2011TWM8G99	0.0084	0.0575	98.1614		0.936524
YGP2011TWM8G910	0.0571	0.1783	99.5606		0.933164
YGP2011TWM8G911	0.0347	0	100.1505		0.950093
YGP2011TWM8G912	0.0171	0	100.2531		0.988185
YGP2011TWM8G913	0.036	0.0177	99.1762	BiTe	0.969683
YGP2011TWM8G914	0.062	0	100.5429	BiCO3	0.975878
YGP2011TWM8G81	0.0477	0.0044	100.0837		0.950463
YGP2011TWM8G82	0	0	100.4973		0.908912
YGP2011TWM8G83	0.0081	0	99.1036		0.960255
YGP2011TWM8G84	0.0271	0	99.7047		0.882215
YGP2011TWM8G85	0.0336	0	100.7386		0.940908
YGP2011TWM8G86	0.0322	0	100.4774		0.968429
YGP2011TWM8G87	0.0427	0	99.8752	pyrrhotite	0.924169
YGP2011TWM8G88	0.059	0	99.3036		0.948488
YGP2011TWM8G89	0.0749	0	101.1903		0.962705
YGP2011TWM8G810	0.0424	0	99.7387		0.917578
YGP2011TWM8G811	0.0242	0	97.9595		0.955823
YGP2011TWM8G812	0.0075	0	98.5721		0.881646
YGP2011TWM8G813	0.0018	0	98.9261		0.974786
YGP2011TWM8G814	0.0465	0	101.8149	BiS	0.962445
YGP2011TWM8G815	0.0187	0.2535	98.3317		0.956131
YGP2011TWM6G101	0.0449	0.1868	98.6015	CuFeS2	0.915618

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G11	85.26063	13.73073
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G12	85.06477	14.46701
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G13	94.12359	4.825654
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G16	91.41084	7.671298
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G17	95.4261	3.960021
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G18	88.19862	11.11393
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G19	89.28568	10.29805
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G111	90.70572	8.755827
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G112	96.18018	3.502331
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G113	92.82108	6.228577
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G114	93.43806	6.218626
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G115	92.54686	6.56687
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G117	87.78731	11.36267
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G118	74.53695	23.64073
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G119	91.85153	7.601649
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G120	93.70247	5.591789
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G123	91.44022	7.721047
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G26	96.79716	2.5173
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G27	77.48474	21.32243
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G28	89.60886	9.531911
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G29	81.24537	18.18824
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G211	93.15405	6.427573
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G212	92.02782	7.183757
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G213	94.6916	4.805755
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G214	96.34666	3.303334
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G215	93.99628	5.104249
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G216 - Light	89.03106	10.21845
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G216 - Dark	68.06356	31.43143
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G217	85.37815	14.10882
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G218	87.51309	12.04921
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G219	95.43588	4.248566

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM13G11	0.0211	0	99.01246	BiTe	0.864046
YGP2011TWM13G12	0.0268	0	99.55858	pyrrhotite	0.86403
YGP2011TWM13G13	0.0564	0	99.00564		0.871582
YGP2011TWM13G16	0.0263	0	99.10843		0.976836
YGP2011TWM13G17	0.0557	0	99.44183		0.93346
YGP2011TWM13G18	0.0382	0	99.35075		0.889506
YGP2011TWM13G19	0.0256	0	99.60932		0.867113
YGP2011TWM13G111	0.0487	0	99.51025		0.842233
YGP2011TWM13G112	0.0521	0	99.73461	BiTe	0.906147
YGP2011TWM13G113	0.0455	0	99.09515		0.854329
YGP2011TWM13G114	0.0468	0	99.70348	Pbs	0.86625
YGP2011TWM13G115	0.058	0	99.17173		0.919447
YGP2011TWM13G117	0.016	0	99.16598		0.884813
YGP2011TWM13G118	0.0114	0.8773	99.06638		0.879992
YGP2011TWM13G119	0.0479	0	99.50108		0.894474
YGP2011TWM13G120	0.0392	0	99.33346	BiTe	0.847702
YGP2011TWM13G123	0.048	0	99.20926		0.942585
YGP2011TWM13G26	0.0695	0	99.38396		0.852668
YGP2011TWM13G27	0.0164	0.4978	99.32137		0.876312
YGP2011TWM13G28	0.0281	0	99.16888		0.930376
YGP2011TWM13G29	0.0157	0	99.44931		0.907749
YGP2011TWM13G211	0.038	0	99.61962		0.926046
YGP2011TWM13G212	0.0249	0	99.23647		0.888616
YGP2011TWM13G213	0.0477	0	99.54505		0.971147
YGP2011TWM13G214	0.057	0	99.707		0.890489
YGP2011TWM13G215	0.0609	0	99.16142		0.898903
YGP2011TWM13G216 - Light	0.0445	0	99.29401	Bi Carb	0.876938
YGP2011TWM13G216 - Dark	0.0132	0	99.50819		0.876938
YGP2011TWM13G217	0.0279	0	99.51487		0.891838
YGP2011TWM13G218	0.0495	0	99.6118	BiTe, BiS	0.802587
YGP2011TWM13G219	0.0651	0	99.74955		0.867575

B 5. Dawson Range Data

Area	River	ID	Easting	Northing	Zone	Identifier	Au_pct_N	Ag_pct_N
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G220	92.14533	6.666368
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G221	95.68072	3.571979
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G222	90.95055	8.716027
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G223	94.16276	5.56194
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G224	93.5164	5.790785
Dawson Range	Mechanic Ck	Lower Mechanic	380732	6915087	8	YGP2011TWM13G225	99.26508	0.370829

B 5. Dawson Range Data

Identifier	Cu_pct_N	Hg_pct_N	total	Min_Inc	Hofmann
YGP2011TWM13G220	0.0591	0	98.8708	PbS	0.898701
YGP2011TWM13G221	0.0577	0	99.31039	BiTe	0.905119
YGP2011TWM13G222	0.0449	0	99.71148		0.959197
YGP2011TWM13G223	0.0483	0	99.773		0.932276
YGP2011TWM13G224	0.0509	0	99.35809		0.930859
YGP2011TWM13G225	0.0328	0	99.6687	Bi Carb	0.933131

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G31	Prox	80.22021	17.23818	0.0196
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G32	Prox	88.91274	10.26343	0.0436
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G33	Prox	77.7309	22.27551	0.0373
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G34	Prox	77.55022	22.19602	0.0272
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G35	Prox	74.99064	23.64661	0.0211
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G36	Prox	75.37206	23.69629	0.0056
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G37	Prox	86.42342	13.2739	0.0367
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G38	Prox	86.72456	11.02846	0.0436
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G39	Prox	89.97672	9.915681	0.0472
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G310	Prox	70.92543	27.95864	0.0038
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G311	Prox	87.64801	11.59479	0.0219
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G312	Prox	84.25532	13.55209	0.0484
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G313	Prox	89.85627	9.200322	0.0331
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G314	Prox	87.50748	11.54511	0.0374
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G315	Prox	87.23647	11.61466	0.0421
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G316	Prox	88.7421	10.82975	0.0311
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G317	Prox	88.24023	10.64098	0.032
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G318	Prox	87.83872	11.53518	0.0349
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G319	Prox	83.4222	15.66837	0.0233
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G320	Prox	84.26534	14.60526	0.0166
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G21	Mod	86.22268	12.77712	0.0353
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G22	Mod	82.34818	16.38373	0.0338
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G23	Mod	83.29171	15.83727	0.0461
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G24	Mod	87.91902	11.09801	0.0314
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G25	Mod	84.45606	14.48604	0.0431
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G26	Mod	85.09846	14.1979	0.0278
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G27	Mod	80.81243	18.71858	0.0253
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G28	Mod	69.87148	28.54484	0.0153
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G29	Mod	77.10857	22.04699	0.0203
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G210	Mod	79.03577	19.85123	0.037
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G211	Mod	87.59782	12.0717	0.0046
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G212	Mod	85.37952	13.14474	0.0437
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G213	Mod	90.42841	8.812835	0.037
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G214	Mod	88.07962	11.10795	0.0294
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G215	Mod	84.73711	14.6152	0.0268
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G216	Mod	85.8011	13.48254	0.0629
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G217	Mod	84.84753	14.32707	0.0371

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM16G31	1.33	98.80799	BaSO4
YGP2011TWM16G32	0.0238	99.24358	
YGP2011TWM16G33	0.0395	100.0832	
YGP2011TWM16G34	0.0094	99.78284	BaSO4 AgTe
YGP2011TWM16G35	0.6753	99.33366	CuFeS2 FeAsS
YGP2011TWM16G36	0.698	99.77196	BaSO4
YGP2011TWM16G37	0.0705	99.80452	FeS2/AgTe
YGP2011TWM16G38	0.111	97.90762	FeS2, BaSO4, (BASr) SO4
YGP2011TWM16G39	0	99.93961	
YGP2011TWM16G310	0.1711	99.05898	Fe>Ni>Co AsS/FeS2
YGP2011TWM16G311	0.1539	99.41859	
YGP2011TWM16G312	0.2078	98.06361	FeS2/AgTe, FeS2/AgTe/HgTe, FeS2
YGP2011TWM16G313	0.1974	99.28709	BaSO4
YGP2011TWM16G314	0.0415	99.13149	FeS2/AgTe
YGP2011TWM16G315	0.0159	98.90913	FeS2
YGP2011TWM16G316	0.1831	99.78605	
YGP2011TWM16G317	0.1609	99.0741	
YGP2011TWM16G318	0.2972	99.706	MoS2
YGP2011TWM16G319	0.218	99.33186	(BASr)SO4
YGP2011TWM16G320	0.2444	99.13161	BaSO4
YGP2011TWM16G21	0.2241	99.2592	BaSO4, CuFeS2
YGP2011TWM16G22	0.347	99.1127	FeS2
YGP2011TWM16G23	0.0716	99.24668	FeS2
YGP2011TWM16G24	0.3473	99.39574	BaSO$, FeS2
YGP2011TWM16G25	0.3655	99.3507	FeS2/AgTeS, AgTe/HgTe
YGP2011TWM16G26	0.2209	99.54507	BaSO4
YGP2011TWM16G27	0.0708	99.62711	
YGP2011TWM16G28	0.5896	99.02122	
YGP2011TWM16G29	0.1616	99.33746	
YGP2011TWM16G210	0.506	99.43001	
YGP2011TWM16G211	0.1346	99.80871	AuAgTe (Au is'real' not contamination
YGP2011TWM16G212	0.2285	98.79646	
YGP2011TWM16G213	0.2127	99.49095	AgTe, FeS2
YGP2011TWM16G214	0.2539	99.47087	
YGP2011TWM16G215	0.0968	99.47591	
YGP2011TWM16G216	0.0162	99.36274	FeS2 BaSO4
YGP2011TWM16G217	0.0892	99.3009	

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G218	Mod	88.05956	11.57492	0.043
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G41	Mod	82.32809	16.67186	0.0232
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G42	Mod	76.77732	20.98389	0.0196
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G43	Mod	88.86255	10.55156	0.0407
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM16G44	Mod	85.53008	13.99919	0.0377
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G21	Prox	89.19379	10.34291	0.0385
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G22	Prox	87.11602	12.22073	0.0379
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G23	Prox	75.99439	23.25913	0.0219
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G24	Prox	88.08966	11.60473	0.0473
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G25	Prox	94.93528	4.520677	0.0688
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G26	Prox	93.26904	6.408432	0.0611
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G27	Prox	80.93288	18.13238	0.0224
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G28	Prox	94.08209	5.355263	0.0733
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G31	Mod	87.49744	12.26047	0.042
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G32	Mod	87.28665	11.83324	0.0345
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G33	Mod	78.46364	20.64608	0.0214
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G34	Mod	88.45102	11.13775	0.0422
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G35	Mod	84.35569	14.79404	0.0198
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G36	Mod	90.81989	8.822771	0.0555
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G37	Mod	86.6041	12.42938	0.0316
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G38	Mod	89.73582	9.607679	0.0387
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G39	Mod	89.32428	9.677228	0.0349
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G310	Mod	88.40083	10.23362	0.0337
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G311	Mod	86.18253	12.78706	0.0374
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G312	Mod	88.99304	9.935553	0.0512
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G313	Mod	83.41216	16.36386	0.0172
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G314	Mod	81.30427	17.41702	0.0378
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G315	Mod	87.44726	11.75376	0.049
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G316	Mod	86.34312	13.16461	0.0103
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G317	Mod	83.29171	16.22476	0.0284
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G318	Mod	84.80737	13.64151	0.0162
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G319	Mod	89.09342	10.19388	0.0359
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G320	Mod	92.44596	7.252954	0.0942
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G321	Mod	86.11226	13.06525	0.0238
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G322	Mod	86.62418	12.18099	0.0187
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G323	Mod	88.88263	10.56149	0.0249
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G324	Mod	85.43975	11.85312	0.0657

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM16G218	0.2006	99.87807	
YGP2011TWM16G41	0.4395	99.46265	
YGP2011TWM16G42	0.3583	98.13911	
YGP2011TWM16G43	0	99.45481	ZnS/AuAgTe
YGP2011TWM16G44	0.0362	99.60317	FeS2
YGP2011TWM18G21	0	99.5752	PbS/CuFeS2, BaSO4
YGP2011TWM18G22	0.2304	99.60505	FeS2
YGP2011TWM18G23	0.6285	99.90392	AgTe/CoNiAsS/FeS2, PbS, FeNiCoAsS/FeS2 NiCoAsS/FeS2, FeAsS
YGP2011TWM18G24	0.0692	99.81089	
YGP2011TWM18G25	0.0313	99.55606	
YGP2011TWM18G26	0	99.73857	
YGP2011TWM18G27	0.676	99.76366	FeS2, BaSO4.
YGP2011TWM18G28	0.0592	99.56985	
YGP2011TWM18G31	0.1554	99.95532	FeS2
YGP2011TWM18G32	0.1121	99.26649	
YGP2011TWM18G33	0.3283	99.45942	FeS2
YGP2011TWM18G34	0.0813	99.71227	
YGP2011TWM18G35	0.1845	99.35403	
YGP2011TWM18G36	0.0406	99.73875	
YGP2011TWM18G37	0.2565	99.32158	AgTe/AuAgTe, AuAgTe/AgTe/CuSbS (tr Hg)
YGP2011TWM18G38	0.2175	99.5997	
YGP2011TWM18G39	0.0744	99.11081	BaSO4
YGP2011TWM18G310	0.4961	99.16425	CuFeS2/FeS2
YGP2011TWM18G311	0.4022	99.40918	
YGP2011TWM18G312	0	98.9798	
YGP2011TWM18G313	0.3128	100.106	
YGP2011TWM18G314	0.304	99.0631	
YGP2011TWM18G315	0.0142	99.26422	
YGP2011TWM18G316	0	99.51803	
YGP2011TWM18G317	0.2184	99.76326	
YGP2011TWM18G318	0.5705	99.03558	
YGP2011TWM18G319	0.1753	99.4985	
YGP2011TWM18G320	0.028	99.82111	
YGP2011TWM18G321	0.2947	99.49602	
YGP2011TWM18G322	0.2661	99.08997	
YGP2011TWM18G323	0.039	99.50803	FeS2
YGP2011TWM18G324	0.2034	97.56196	

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G325	Mod	93.1486	6.070623	0.0786
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G326	Mod	86.33309	12.71751	0.0354
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G327	Mod	72.33068	26.66702	0.0247
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G328	Mod	90.12729	9.42884	0.0218
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G329	Mod	90.82991	8.494898	0.0339
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G330	Mod	88.53131	10.68072	0.0267
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G331	Mod	88.05956	11.28679	0.046
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G332	Mod	73.84636	25.61386	0.0176
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G333	Mod	83.16122	15.26101	0.0375
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G334	Mod	86.2026	12.58835	0.0216
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G335	Mod	86.06207	12.75725	0.0286
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G336	Mod	86.61414	12.79699	0.0267
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G337	Mod	89.63545	9.458647	0.046
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G338	Mod	88.29041	10.96885	0.0402
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G339	Mod	87.03571	11.58485	0.0175
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G340	Mod	87.91902	11.71402	0.0581
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G41	Mod	88.89266	10.1442	0.0413
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G42	Mod	85.89143	13.09506	0.0552
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G43	Mod	73.12365	25.58405	0.0149
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G44	Mod	89.10345	10.25349	0.0769
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G45	Mod	87.47737	11.81337	0.0357
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G46	Mod	91.7634	7.541085	0.0465
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G47	Mod	89.09342	10.1442	0.0522
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G48	Mod	89.95665	9.389097	0.0363
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G49	Mod	87.11602	11.74382	0.0369
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM18G410	Mod	83.27163	15.28088	0.032
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G31	Mod	83.88984	15.77711	0.0228
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G32	Mod	81.12159	17.56749	0.0343
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G33	Mod	99.03493	0.3130693	0.1859
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G34	Mod	87.13951	12.6118	0.0313
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G35	Mod	73.96027	25.00598	0.033
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G36	Mod	74.17089	25.57969	0.0105
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G37	Mod	89.40627	10.35651	0.0317
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G38	Mod	89.61689	9.426701	0.0541
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G39	Mod	88.03217	11.11817	0.0309
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G310	Mod	88.92484	10.28727	0.0417
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G311	Mod	82.98714	16.53876	0.0417

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM18G325	0	99.29782	
YGP2011TWM18G326	0.2256	99.3116	FeS2
YGP2011TWM18G327	0.7747	99.7971	FeCaMgCO3
YGP2011TWM18G328	0.1161	99.69402	FeS2
YGP2011TWM18G329	0.0529	99.41161	BaSO4
YGP2011TWM18G330	0.057	99.29573	AuAgTe (in FeMg silicate
YGP2011TWM18G331	0.1291	99.52144	
YGP2011TWM18G332	0	99.47781	FeS2
YGP2011TWM18G333	0.4106	98.87032	
YGP2011TWM18G334	0	98.81255	
YGP2011TWM18G335	0.1072	98.95512	AuAgTe/AgTe
YGP2011TWM18G336	0.0389	99.47674	
YGP2011TWM18G337	0	99.1401	
YGP2011TWM18G338	0.3124	99.61186	
YGP2011TWM18G339	0.5332	99.17127	
YGP2011TWM18G340	0.1385	99.82964	
YGP2011TWM18G41	0.0021	99.08026	
YGP2011TWM18G42	0.2644	99.30609	FeS2
YGP2011TWM18G43	0.3896	99.1122	
YGP2011TWM18G44	0.0567	99.49055	AuAgTe/AgTe
YGP2011TWM18G45	0.2721	99.59854	
YGP2011TWM18G46	0.0039	99.35489	
YGP2011TWM18G47	0.0696	99.35943	
YGP2011TWM18G48	0.0758	99.45785	
YGP2011TWM18G49	0.0921	98.98885	
YGP2011TWM18G410	0.3535	98.938	
YGP2011TWM19G31	0.0023	99.69204	
YGP2011TWM19G32	0.5916	99.31498	
YGP2011TWM19G33	0.124	99.65791	AuAgTe/AuAgTe
YGP2011TWM19G34	0	99.78262	
YGP2011TWM19G35	0.7056	99.70484	CoAsS, FeS2/CiAsS
YGP2011TWM19G36	0.4158	100.1769	
YGP2011TWM19G37	0.1522	99.94668	FeS2
YGP2011TWM19G38	0.2443	99.342	
YGP2011TWM19G39	0.1001	99.28133	
YGP2011TWM19G310	0.0061	99.25991	
YGP2011TWM19G311	0.0609	99.62851	

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G312	Mod	83.25796	16.04418	0.0479
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G313	Mod	89.00507	10.20814	0.0415
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G314	Mod	91.11134	8.635371	0.0403
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G315	Mod	89.10536	10.39608	0.0329
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G316	Mod	89.27588	9.931172	0.0302
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G317	Mod	90.32901	9.031036	0.0765
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G318	Mod	80.33926	18.57644	0
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G319	Mod	91.92377	6.746075	0.0315
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G320	Mod	88.61391	10.65326	0.0418
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G321	Mod	80.85078	18.57644	0.0216
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G322	Mod	91.56269	7.873718	0.0376
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G323	Mod	82.42548	17.4389	0.0342
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G324	Mod	69.01553	29.30883	0.0106
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G325	Mod	89.40627	9.931172	0.0511
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G326	Mod	85.40435	13.87792	0.0299
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G327	Mod	72.54605	27.12278	0.0089
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G328	Mod	54.55246	45.88716	0.0221
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G329	Mod	72.9974	26.43037	0.0202
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G330	Mod	88.74429	10.8412	0.0438
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G331	Mod	86.03622	13.1954	0.0257
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G332	Mod	83.07742	15.46058	0.0263
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G333	Mod	89.93784	9.495942	0.0452
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G334	Mod	90.10835	9.575075	0.036
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G335	Mod	88.63396	10.80163	0.0343
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G336	Mod	74.68241	24.91696	0.0313
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G337	Mod	88.09235	11.63253	0.036
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G338	Mod	82.40542	16.01451	0.0565
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G339	Mod	82.3653	16.92454	0.0148
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G340	Mod	71.31238	28.17129	0.0107
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G341	Mod	84.13055	14.4912	0.0441
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G41	Prox	82.5358	16.76627	0.0281
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G42	Prox	80.89091	18.52698	0.0169
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G43	Prox	71.94427	26.92495	0.0037
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G44	Prox	86.03622	13.11627	0.0425
Thistle	Blueberry Ck	Blueberry Ck	587360	6995019	7	YGP2011TWM19G45	Prox	87.38023	11.47426	0.0371
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM16G11	Prox	88.54135	10.70059	0.0584

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM19G312	0.1979	99.54794	
YGP2011TWM19G313	0.0699	99.3246	FeS2
YGP2011TWM19G314	0.0467	99.8337	
YGP2011TWM19G315	0.0145	99.54884	
YGP2011TWM19G316	0	99.23725	
YGP2011TWM19G317	0.2141	99.65065	
YGP2011TWM19G318	0.3083	99.224	
YGP2011TWM19G319	0	98.70135	
YGP2011TWM19G320	0.2354	99.54436	
YGP2011TWM19G321	0.1345	99.58332	
YGP2011TWM19G322	0.0487	99.52271	
YGP2011TWM19G323	0.026	99.92458	FeS2
YGP2011TWM19G324	1.41	99.74496	
YGP2011TWM19G325	0.2104	99.59895	
YGP2011TWM19G326	0.2857	99.59787	
YGP2011TWM19G327	0.9405	100.6182	
YGP2011TWM19G328	0.2575	100.7192	
YGP2011TWM19G329	0.2607	99.70866	
YGP2011TWM19G330	0.0268	99.6561	
YGP2011TWM19G331	0.2207	99.47803	
YGP2011TWM19G332	0.4229	98.98719	
YGP2011TWM19G333	0.0413	99.52028	FeS2
YGP2011TWM19G334	0.0249	99.74433	
YGP2011TWM19G335	0.1376	99.60751	
YGP2011TWM19G336	0.0897	99.72037	
YGP2011TWM19G337	0	99.76089	
YGP2011TWM19G338	0.2512	98.72763	FeS2 BaSO4
YGP2011TWM19G339	0.3342	99.63883	
YGP2011TWM19G340	0.0964	99.59077	
YGP2011TWM19G341	0.3213	98.98714	
YGP2011TWM19G41	0.1493	99.47948	
YGP2011TWM19G42	0.4377	99.87248	
YGP2011TWM19G43	0.8576	99.73051	
YGP2011TWM19G44	0	99.195	
YGP2011TWM19G45	0.0424	98.934	
YGP2011TWM16G11	0.0383	99.33865	CaCO3, FeS2

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM16G12	Prox	90.66932	8.991675	0.039
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM16G13	Prox	85.8011	13.30371	0.0336
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM16G14	Prox	77.63052	20.91434	0.0287
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM16G15	Prox	80.64178	17.93367	0.0238
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM16G16	Prox	84.73711	14.66488	0.0254
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM16G17	Prox	86.59406	12.16112	0.0385
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM16G18	Prox	84.89772	14.82384	0.009
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM16G19	Prox	73.10358	21.20247	0.0253
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G61	Mod	87.11602	12.14125	0.0264
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G62	Mod	81.51505	17.13883	0.0237
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G63	Mod	88.9027	8.71348	0.0409
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G64	Mod	89.97672	9.09103	0.0329
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G65	Mod	88.86255	10.61117	0.0249
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G66	Mod	82.34818	17.22825	0.0171
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G67	Mod	73.92666	26.39876	0.0156
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G68	Mod	84.2252	15.29082	0.033
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G69	Mod	88.25026	10.69065	0.0487
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G610	Mod	85.88139	13.4428	0.012
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G611	Mod	81.25407	14.6152	0.0208
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G612	Mod	86.45354	13.10499	0.0468
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G613	Mod	87.87888	11.46563	0.0563
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G614	Mod	87.51752	11.84318	0.0366
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G615	Mod	83.61291	15.82734	0.0105
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G616	Mod	87.63797	11.71402	0.0348
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G617	Mod	79.09601	18.82787	0.0253
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G618	Mod	85.13862	13.1348	0.0238
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G619	Mod	80.48119	18.17213	0.0136
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G620	Mod	76.0747	23.43797	0.0165
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G621	Mod	70.20273	29.34962	0.0168
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G622	Mod	90.06706	9.44871	0.0292
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G623	Mod	84.79734	14.32707	0.0147

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM16G12	0	99.7	FeS2
YGP2011TWM16G13	0.1173	99.25571	AgTe
YGP2011TWM16G14	0.8777	99.45126	AgTe
YGP2011TWM16G15	0.1188	98.71806	
YGP2011TWM16G16	0.1681	99.59549	FeS2, AuAgTe
YGP2011TWM16G17	0	98.79368	
YGP2011TWM16G18	0	99.73057	AgTe
YGP2011TWM16G19	4.15	98.48135	FeS2
YGP2011TWM18G61	0.3052	99.58886	
YGP2011TWM18G62	0.6943	99.37188	HgTe
YGP2011TWM18G63	1.44	99.09708	FeS2
YGP2011TWM18G64	0.0236	99.12424	
YGP2011TWM18G65	0.0692	99.56782	PbS
YGP2011TWM18G66	0	99.59352	AgTe/Fe oxide (primary)
YGP2011TWM18G67	0.0717	100.4127	PbS
YGP2011TWM18G68	0.1946	99.74362	
YGP2011TWM18G69	0	98.98962	
YGP2011TWM18G610	0.0345	99.3707	FeS2
YGP2011TWM18G611	1.9	97.79007	
YGP2011TWM18G612	0	99.60533	
YGP2011TWM18G613	0.3368	99.7376	
YGP2011TWM18G614	0.1402	99.5375	
YGP2011TWM18G615	0.4651	99.91585	
YGP2011TWM18G616	0.1792	99.56599	
YGP2011TWM18G617	1.1	99.04918	CaY (tr GdDy) silicate
YGP2011TWM18G618	0.0446	98.34183	
YGP2011TWM18G619	0.474	99.14091	
YGP2011TWM18G620	0.1649	99.69407	
YGP2011TWM18G621	0.5906	100.1598	
YGP2011TWM18G622	0.1679	99.71287	FeS2
YGP2011TWM18G623	0.1785	99.3176	

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G624	Mod	84.25532	14.81391	0.0306
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G625	Mod	84.43599	14.80397	0.0024
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G626	Mod	76.06466	23.21939	0.0299
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G627	Mod	84.86761	14.17803	0.0474
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G628	Mod	91.64296	7.948442	0.0568
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G629	Mod	89.88639	9.289742	0.0335
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G630	Mod	90.7195	8.653867	0.0428
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G631	Mod	89.40458	10.02497	0.0291
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G632	Mod	90.42841	8.763157	0.0791
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G633	Mod	87.58778	10.81982	0.0335
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G634	Mod	90.52879	7.829216	0.0298
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G635	Mod	79.35698	19.19549	0.019
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G636	Mod	88.29041	10.97879	0.0569
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G637	Mod	84.28542	14.46617	0.0204
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G638	Mod	88.94286	10.44227	0.0475
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G639	Mod	74.83004	24.66004	0.007
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G640	Mod	90.90018	8.494898	0.0361
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G641	Mod	91.65299	7.680182	0.0331
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G642	Mod	85.36948	12.95596	0.0514
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G643	Mod	90.93029	8.733351	0.0234
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G644	Mod	81.2039	16.4334	0.0366
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM18G645	Mod	85.97173	13.28383	0.0268
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G61	Mod	90.50955	9.120061	0.0649
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G62	Mod	89.13546	8.932119	0.0298
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G63	Mod	84.22083	14.75828	0.0237
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G64	Mod	80.17879	19.39744	0.0325
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G65	Mod	83.24792	15.9057	0.0445
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G66	Mod	82.35527	16.64757	0.0258
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G67	Mod	84.72231	14.52088	0.0214
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G68	Mod	89.53665	9.683882	0.0318
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G69	Mod	88.82453	10.32684	0.0612

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM18G624	0.052	99.15183	
YGP2011TWM18G625	0.0993	99.34166	
YGP2011TWM18G626	0	99.31394	
YGP2011TWM18G627	0.2396	99.33264	
YGP2011TWM18G628	0	99.6482	
YGP2011TWM18G629	0.0083	99.21793	
YGP2011TWM18G630	0.1708	99.58697	
YGP2011TWM18G631	0.2322	99.69085	
YGP2011TWM18G632	0.0988	99.36948	
YGP2011TWM18G633	0.3516	98.7927	
YGP2011TWM18G634	0.5425	98.93031	AuAgTe
YGP2011TWM18G635	0.5663	99.13776	AuAgTe/AgTe
YGP2011TWM18G636	0.0715	99.3976	
YGP2011TWM18G637	0.6638	99.43579	PbS
YGP2011TWM18G638	0	99.43262	PbS
YGP2011TWM18G639	0.0401	99.53719	
YGP2011TWM18G640	0.0422	99.47337	
YGP2011TWM18G641	0.0872	99.45347	
YGP2011TWM18G642	0	98.37685	
YGP2011TWM18G643	0.0064	99.69344	AuAgTe/AgTe
YGP2011TWM18G644	0.9765	98.6504	
YGP2011TWM18G645	0.047	99.32937	FeS2
YGP2011TWM19G61	0	99.69452	
YGP2011TWM19G62	0.0181	98.11548	
YGP2011TWM19G63	0.1475	99.1503	CePO4, CaCO3, CuFES2
YGP2011TWM19G64	0.031	99.63972	FeS2
YGP2011TWM19G65	0.3008	99.49892	
YGP2011TWM19G66	0.2428	99.27145	
YGP2011TWM19G67	0	99.2646	
YGP2011TWM19G68	0.0738	99.32613	
YGP2011TWM19G69	0.1391	99.35167	FeS2

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G610	Mod	80.32923	19.24906	0.02
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G611	Mod	72.71656	27.28105	0.0117
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G612	Mod	88.99504	10.3664	0.0313
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G613	Mod	83.11754	16.33104	0.0242
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G614	Mod	96.2667	3.402713	0.0967
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G615	Mod	83.58894	14.62969	0.0407
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G616	Mod	87.55074	11.64242	0.028
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G617	Mod	82.32518	17.01356	0.0111
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G618	Mod	85.18369	13.99662	0.0297
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G619	Mod	91.75326	7.725344	0.059
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G620	Mod	76.76863	21.90001	0.0195
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G621	Mod	85.14357	13.42291	0.0268
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G622	Mod	88.85462	10.34662	0.0376
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G623	Mod	78.21294	20.92075	0.0239
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G624	Mod	85.45449	14.20435	0.0449
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G625	Mod	88.96495	10.83131	0.0523
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G626	Mod	84.99312	14.42196	0.023
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G627	Mod	91.12137	8.407865	0.0516
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G628	Mod	86.21677	13.20529	0.0315
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G629	Mod	76.64827	19.93159	0.0175
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G630	Mod	87.95193	11.04892	0.0439
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G631	Mod	81.44254	18.09175	0.0371
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G632	Mod	83.31813	14.81763	0.0237
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G633	Mod	88.39324	10.88077	0.0478
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G634	Mod	78.59406	18.1511	0.0216
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G635	Mod	89.21569	9.931172	0.0392
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G636	Mod	89.24579	10.21803	0.0383
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G637	Mod	75.30427	24.56086	0.0369
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G638	Mod	91.69308	7.665995	0.0494
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G639	Mod	90.51958	8.407865	0.0538
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G640	Mod	85.24387	13.05692	0.019

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM19G610	0.1183	99.71659	
YGP2011TWM19G611	0.0003	100.0096	
YGP2011TWM19G612	0.3514	99.74415	
YGP2011TWM19G613	0	99.47278	
YGP2011TWM19G614	0	99.76611	
YGP2011TWM19G615	0.8254	99.08472	
YGP2011TWM19G616	0.1116	99.33276	
YGP2011TWM19G617	0.4062	99.75604	ZnS
YGP2011TWM19G618	0.3229	99.53291	
YGP2011TWM19G619	0.0681	99.6057	
YGP2011TWM19G620	0.6791	99.36725	
YGP2011TWM19G621	0.8523	99.44559	
YGP2011TWM19G622	0.1063	99.34514	FeS2
YGP2011TWM19G623	0	99.15759	
YGP2011TWM19G624	0.1295	99.83324	
YGP2011TWM19G625	0.0627	99.91125	
YGP2011TWM19G626	0.6642	100.1023	FeS2
YGP2011TWM19G627	0.0501	99.63094	
YGP2011TWM19G628	0.105	99.55856	
YGP2011TWM19G629	2.6	99.19736	
YGP2011TWM19G630	0.2872	99.33195	
YGP2011TWM19G631	0.0578	99.62919	
YGP2011TWM19G632	1.21	99.36945	
YGP2011TWM19G633	0.0754	99.39721	
YGP2011TWM19G634	2.22	98.98676	FeS2
YGP2011TWM19G635	0	99.18607	
YGP2011TWM19G636	0.0974	99.59952	
YGP2011TWM19G637	0.056	99.95803	CuFeS2
YGP2011TWM19G638	0	99.40847	
YGP2011TWM19G639	0.0625	99.04375	AgTe
YGP2011TWM19G640	0.4107	98.73048	

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G641	Mod	86.80853	10.80163	0.0376
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G642	Mod	88.9148	10.20814	0.0194
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G643	Mod	84.04028	15.14405	0.0201
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G644	Mod	81.77353	17.98294	0.0085
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G645	Mod	90.40925	8.68483	0.0424
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G646	Mod	79.91801	18.0324	0.0235
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G647	Mod	91.77332	7.131848	0.06
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G648	Mod	90.92078	8.289165	0.0337
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G649	Mod	88.03217	11.30611	0.0409
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G650	Mod	83.32816	15.05502	0.0167
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G651	Mod	73.65937	25.04555	0.0065
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G652	Mod	85.27396	14.23402	0.024
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G653	Mod	85.33414	13.82846	0.0215
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G654	Mod	84.93295	14.56044	0.0208
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G655	Prox	89.21569	10.54445	0.0398
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G51	Prox	87.78143	11.65231	0.0441
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G52	Prox	85.28399	14.17467	0.0374
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G53	Prox	89.316	10.35651	0.0396
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G54	Prox	76.44767	23.54202	0.027
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G55	Prox	80.26905	19.0908	0.0182
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G56	Prox	82.64613	16.52887	0.0383
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G57	Prox	91.26179	8.348515	0.0479
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G58	Prox	83.27802	16.25191	0.0419
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G59	Prox	87.13951	12.42386	0.0389
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G510	Prox	90.62991	8.694721	0.0269
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G511	Prox	72.13483	26.02481	0.0179
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G512	Prox	87.46046	12.0183	0.0362
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G513	Prox	88.79444	10.68293	0.0451
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G514	Prox	86.8988	11.98863	0.0231
Thistle	Thistle Ck	Upper Thistle	599144	6992166	7	YGP2011TWM19G515	Prox	89.38621	9.881714	0.038
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G51	Prox	81.17378	18.78813	0.0186

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM19G641	1.5	99.14777	
YGP2011TWM19G642	0.1886	99.33094	
YGP2011TWM19G643	0	99.20444	
YGP2011TWM19G644	0	99.76497	
YGP2011TWM19G645	0.1229	99.25938	FeS2, CaMgCO3
YGP2011TWM19G646	1.23	99.2039	
YGP2011TWM19G647	0.0029	98.96806	
YGP2011TWM19G648	0.0383	99.28194	
YGP2011TWM19G649	0.0723	99.45148	FeS2
YGP2011TWM19G650	0.7088	99.10869	
YGP2011TWM19G651	0.4535	99.16492	
YGP2011TWM19G652	0.0924	99.62438	
YGP2011TWM19G653	0.1355	99.3196	YPo4, TiO2
YGP2011TWM19G654	0.1918	99.70599	PbS
YGP2011TWM19G655	0.0341	99.83405	
YGP2011TWM19G51	0.1463	99.62414	
YGP2011TWM19G52	0	99.49606	
YGP2011TWM19G53	0	99.71211	CuFeS2
YGP2011TWM19G54	0	100.0167	
YGP2011TWM19G55	0	99.37805	Fe oxide
YGP2011TWM19G56	0.2418	99.4551	
YGP2011TWM19G57	0.0204	99.6786	
YGP2011TWM19G58	0.1943	99.76612	
YGP2011TWM19G59	0.076	99.67827	
YGP2011TWM19G510	0.0482	99.39973	
YGP2011TWM19G511	0.6268	98.80434	FeS2
YGP2011TWM19G512	0.0307	99.54567	
YGP2011TWM19G513	0.1219	99.64438	
YGP2011TWM19G514	0.4459	99.35642	
YGP2011TWM19G515	0.2175	99.52342	
YGP2011TWM18G51	0	99.98051	FeS2

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G52	Prox	78.08221	21.52041	0.0143
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G53	Prox	80.60164	19.16568	0.0092
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G54	Prox	84.37576	15.31069	0.0436
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G55	Prox	77.05837	21.86815	0.0116
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G56	Prox	75.57282	23.68636	0.018
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G57	Prox	80.87265	18.76826	0.0197
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G58	Prox	84.58655	14.28732	0.0273
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G59	Prox	84.92783	14.12836	0.0255
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G510	Prox	74.84007	24.72959	0.0325
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G511	Prox	74.83004	24.68985	0.0291
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G512	Prox	81.41468	17.92374	0.0239
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G513	Prox	80.67191	18.37084	0.0337
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G514	Prox	85.78102	13.413	0.0364
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM18G515	Prox	78.23277	20.97395	0.019
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G61	Prox	83.50871	15.87603	0.0352
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G62	Prox	82.85676	15.75733	0.0345
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G51	Prox	83.22787	15.87603	0.0346
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G52	Prox	78.52386	20.91085	0.0205
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G53	Prox	77.30021	21.97915	0.0271
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G54	Prox	80.05843	19.15015	0.0256
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G55	Prox	81.86381	17.90381	0.0286
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G56	Prox	78.58403	20.08985	0.0161
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G57	Prox	71.98438	25.29284	0.0236
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G58	Prox	82.86679	15.98483	0.0247
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G59	Prox	84.35121	14.69893	0.0832
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G510	Prox	73.92014	25.34229	0.0192
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G511	Prox	77.59108	21.57359	0.0131
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G512	Prox	75.73555	23.9179	0.0155
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G513	Prox	82.33521	16.58822	0.0428
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G514	Prox	75.53495	23.74975	0.0136
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM17G515	Prox	79.70738	18.96221	0.0104

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM18G52	0.0493	99.66622	FeS2
YGP2011TWM18G53	0.1838	99.96032	FeS2/ZnS
YGP2011TWM18G54	0	99.73005	
YGP2011TWM18G55	0.1237	99.06183	FeS2
YGP2011TWM18G56	0.4539	99.73108	
YGP2011TWM18G57	0.2058	99.86641	
YGP2011TWM18G58	0.2648	99.16597	FeS2
YGP2011TWM18G59	0.1672	99.24888	
YGP2011TWM18G510	0.2784	99.88056	
YGP2011TWM18G511	0.2756	99.82458	FeS2
YGP2011TWM18G512	0.0927	99.45502	
YGP2011TWM18G513	0.1698	99.24624	
YGP2011TWM18G514	0	99.23042	FeS2, PbS
YGP2011TWM18G515	0.3324	99.55812	FeS2
YGP2011TWM17G61	0.1931	99.61304	CuFeS2, FeS2
YGP2011TWM17G62	0.0226	98.67119	
YGP2011TWM17G51	0.1296	99.2681	FeS2
YGP2011TWM17G52	0.1215	99.57671	
YGP2011TWM17G53	0.1176	99.42406	FeS2
YGP2011TWM17G54	0.007	99.24117	
YGP2011TWM17G55	0.0011	99.79732	
YGP2011TWM17G56	0.2364	98.92638	
YGP2011TWM17G57	0.4167	97.71751	FeS2
YGP2011TWM17G58	0.0009	98.87722	FeS2
YGP2011TWM17G59	0.1964	99.32974	AgTe
YGP2011TWM17G510	0.3025	99.58414	FeS2
YGP2011TWM17G511	0.3118	99.48957	
YGP2011TWM17G512	0.1828	99.85176	FeS2
YGP2011TWM17G513	0.0735	99.03973	
YGP2011TWM17G514	0.1323	99.4306	
YGP2011TWM17G515	0.2572	98.93719	FeS2

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM19G11	Prox	79.89795	19.65462	0.0238
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM19G12	Prox	80.32923	19.17982	0.0288
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM19G13	Prox	88.72424	10.129	0.0508
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM19G14	Prox	72.5962	27.00408	0.0292
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM19G15	Prox	78.79466	20.33714	0.0094
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM19G16	Prox	72.40564	27.04365	0.0214
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM19G17	Prox	83.16769	16.55855	0.0243
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM19G18	Prox	74.60217	25.06533	0.0221
Thistle	Pete's Gulch	Pete's Gulch	576552	7009226	7	YGP2011TWM19G19	Prox	74.53197	24.73891	0.0167
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G11	Mod	86.45354	13.22422	0.0304
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G12	Mod	87.9391	11.54511	0.0538
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G13	Mod	90.60909	8.98174	0.0388
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G14	Mod	86.26283	13.46267	0.037
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G15	Mod	84.0144	14.11842	0.0207
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G16	Mod	84.88768	14.82384	0.0127
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G17	Mod	85.06835	14.029	0.0279
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G18	Mod	89.13357	9.965359	0.0445
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G19	Mod	86.43346	13.36332	0.0087
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G110	Mod	85.71075	13.69119	0.0235
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G111	Mod	84.67689	14.4761	0.0136
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G112	Mod	90.4786	8.673737	0.06
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G113	Mod	91.63292	7.690117	0.0583
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM18G114	Mod	98.57891	0.9056256	0.1469
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM17G41	Mod	90.14848	8.902445	0.0747
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM17G42	Mod	87.60088	11.18741	0.0775
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM19G21	Mod	82.83669	17.0927	0.0095
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM19G22	Mod	99.01488	0.6700574	0.1251
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM19G23	Mod	92.46538	7.240655	0.069
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM19G24	Mod	83.86978	15.65841	0.0245
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM19G25	Mod	89.988	9.110169	0.0566
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM19G26	Mod	86.17664	13.20529	0.0178

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM19G11	0.1004	99.67677	FeS2
YGP2011TWM19G12	0.3027	99.84055	
YGP2011TWM19G13	0	98.90404	
YGP2011TWM19G14	0.3135	99.94298	
YGP2011TWM19G15	0.3113	99.45251	FeS2
YGP2011TWM19G16	0.1628	99.63349	FeS2, FeS2/AgTe
YGP2011TWM19G17	0.0392	99.78973	FeS2
YGP2011TWM19G18	0.2674	99.95701	
YGP2011TWM19G19	0.4062	99.69377	FeS2
YGP2011TWM18G11	0	99.70816	AgTe, FeS2, AgTeS
YGP2011TWM18G12	0	99.53802	CuFeS2
YGP2011TWM18G13	0	99.62963	FeS2
YGP2011TWM18G14	0.0752	99.83771	
YGP2011TWM18G15	0.1183	98.27183	
YGP2011TWM18G16	0	99.72423	FeS2
YGP2011TWM18G17	0.1225	99.24775	
YGP2011TWM18G18	0.045	99.18842	
YGP2011TWM18G19	0	99.80548	
YGP2011TWM18G110	0.0379	99.46335	FeS2
YGP2011TWM18G111	0.0084	99.17499	
YGP2011TWM18G112	0	99.21233	FeS2/AuAgTe CaSO4/AuAgTe
YGP2011TWM18G113	0	99.38133	
YGP2011TWM18G114	0.0519	99.68333	
YGP2011TWM17G41	0.0302	99.15582	FeS2
YGP2011TWM17G42	0.1279	98.99369	CaCO3
YGP2011TWM19G21	0	99.93889	
YGP2011TWM19G22	0.0057	99.81574	
YGP2011TWM19G23	0.0421	99.81713	
YGP2011TWM19G24	0.0035	99.55619	
YGP2011TWM19G25	0.0367	99.19147	
YGP2011TWM19G26	0	99.39973	

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Lulu Creek	Lulu Creek	591748	6994504	7	YGP2011TWM19G27	Mod	86.51766	13.35367	0.0231
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G81	Prox	71.69352	26.82604	0.0133
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G82	Prox	66.80897	31.85097	0.0073
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G83	Prox	73.59919	25.29284	0.0337
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G84	Prox	90.11839	8.763963	0.0385
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G85	Prox	70.179	28.40869	0.023
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G86	Prox	77.04946	22.6221	0.0209
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G87	Prox	65.75583	31.56411	0.0074
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G88	Prox	56.40799	40.91168	0.0134
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G89	Prox	75.89603	23.98714	0.016
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G810	Prox	67.37064	32.68187	0.0084
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G811	Prox	78.78464	17.47847	0.0192
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G812	Prox	74.86295	25.22359	0.0055
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G813	Prox	75.99632	23.65083	0.0194
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G814	Prox	72.86701	26.64799	0
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G815	Prox	77.25006	22.32535	0.0145
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G817	Prox	72.76672	27.46899	0.0112
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G818	Prox	88.11241	11.20719	0.0769
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G819	Prox	76.91908	22.52319	0.0156
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G820	Prox	79.45663	18.0225	0.0421
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G71	Mod	90.57976	8.961795	0.1136
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G72	Mod	70.54008	29.17035	0.0141
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G73	Mod	58.44405	38.01344	0.0204
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G74	Mod	86.53772	12.09743	0.0223
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G75	Mod	92.61582	6.676834	0.0685
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G76	Mod	74.29125	23.97725	0.028
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G77	Mod	78.90499	20.47562	0.0055
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G78	Mod	82.99718	15.97494	0.0161
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G79	Mod	68.14294	31.79162	0.0157
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G710	Mod	79.76756	19.33809	0.0616
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G711	Mod	92.88663	6.558135	0.0888

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM19G27	0.0139	99.90833	PbS
YGP2011TWM19G81	0.8837	99.41655	FeS2
YGP2011TWM19G82	0.7117	99.37894	
YGP2011TWM19G83	0.6365	99.56223	
YGP2011TWM19G84	0.0011	98.92194	
YGP2011TWM19G85	0.798	99.40869	
YGP2011TWM19G86	0.1945	99.88696	FeS2
YGP2011TWM19G87	1.5	98.82735	
YGP2011TWM19G88	2.83	100.1631	
YGP2011TWM19G89	0.1013	100.0005	
YGP2011TWM19G810	0.3498	100.4107	
YGP2011TWM19G811	2.08	98.36231	
YGP2011TWM19G812	0.0215	100.1135	
YGP2011TWM19G813	0.1493	99.81586	
YGP2011TWM19G814	0.6301	100.1451	YPO4
YGP2011TWM19G815	0.5985	100.1884	
YGP2011TWM19G817	0	100.2469	
YGP2011TWM19G818	0.0167	99.4132	
YGP2011TWM19G819	0.3884	99.84626	
YGP2011TWM19G820	1.09	98.61124	
YGP2011TWM19G71	0.1026	99.75775	
YGP2011TWM19G72	0.1358	99.86032	
YGP2011TWM19G73	3.16	99.6379	FeS2
YGP2011TWM19G74	0.116	98.77345	FeS2
YGP2011TWM19G75	0	99.36115	
YGP2011TWM19G76	0.8356	99.13211	
YGP2011TWM19G77	0.0096	99.39571	
YGP2011TWM19G78	0.4784	99.46662	
YGP2011TWM19G79	0	99.95026	
YGP2011TWM19G710	0.1318	99.29904	
YGP2011TWM19G711	0.0249	99.55846	TiO2

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G712	Mod	79.36636	19.98104	0.0217
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G713	Mod	76.68839	22.72102	0.0119
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G714	Mod	81.67323	18.0324	0.0093
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G715	Mod	78.82475	20.27779	0.0243
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G716	Mod	90.95087	8.308949	0.3223
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G717	Mod	78.52386	12.87887	0.0106
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G718	Mod	88.29295	11.05882	0.0603
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G719	Mod	85.96602	11.00936	0.1484
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G720	Mod	85.67515	13.73944	0.0415
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G721	Mod	86.90883	12.06776	0.1484
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G722	Mod	79.1758	17.86424	0.0144
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G723	Mod	89.18561	10.67304	0.0988
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G724	Mod	82.41544	16.64757	0.0221
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G725	Mod	67.73171	31.9301	0.0153
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G726	Mod	79.10559	20.30747	0.0369
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G727	Mod	87.96196	11.56329	0.0404
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G728	Mod	71.59322	28.00314	0.0214
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G729	Mod	79.12565	20.35692	0.0199
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G730	Mod	86.10644	13.27454	0.0183
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G731	Mod	79.48672	19.55571	0.0203
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G732	Mod	79.9481	19.17982	0.0065
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G733	Mod	87.6711	11.44459	0.0427
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G734	Mod	87.03922	12.46342	0.0683
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G735	Mod	66.147	33.33471	0.0207
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G736	Mod	80.69031	18.12142	0.0188
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G737	Mod	68.3335	31.08932	0.0202
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G738	Mod	84.8527	14.31315	0.0704
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G739	Mod	82.42548	16.08375	0.0314
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G740	Mod	79.6472	19.15015	0.0165
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G741	Mod	75.7857	19.7931	0.0039
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G742	Mod	57.66173	39.25978	0.0149

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM19G712	0.3083	99.67741	FeS2
YGP2011TWM19G713	0.6923	100.1136	FeS2
YGP2011TWM19G714	0.055	99.76993	
YGP2011TWM19G715	0.6108	99.73764	FeS2
YGP2011TWM19G716	0.35	99.93211	
YGP2011TWM19G717	4.8	96.21333	porous texture
YGP2011TWM19G718	0.1375	99.54956	FE oxide (prob hematite)
YGP2011TWM19G719	1.5	98.62377	FE oxide (prob hematite)
YGP2011TWM19G720	0	99.45609	FeS2
YGP2011TWM19G721	0.1632	99.28819	FeS2
YGP2011TWM19G722	1.92	98.97443	
YGP2011TWM19G723	0.1909	100.1484	
YGP2011TWM19G724	0.4986	99.58372	FE oxide (prob hematite)
YGP2011TWM19G725	0.245	99.92212	CaCO3
YGP2011TWM19G726	0.4444	99.89436	FeS2
YGP2011TWM19G727	0.2455	99.81114	
YGP2011TWM19G728	0.0602	99.67796	
YGP2011TWM19G729	0.1068	99.60927	
YGP2011TWM19G730	0.0297	99.42898	FeS2/NiSbS
YGP2011TWM19G731	0.5751	99.63784	
YGP2011TWM19G732	0.4039	99.53832	FeS"
YGP2011TWM19G733	0	99.15839	CuFes2
YGP2011TWM19G734	0.0508	99.62173	
YGP2011TWM19G735	0.3223	99.82471	FeS2
YGP2011TWM19G736	0.4938	99.32433	FeS2
YGP2011TWM19G737	0.3964	99.83942	
YGP2011TWM19G738	0.2097	99.44595	
YGP2011TWM19G739	0.4515	98.99213	
YGP2011TWM19G740	0.7565	99.57035	
YGP2011TWM19G741	3.41	98.99271	
YGP2011TWM19G742	3.07	100.0064	

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G743	Mod	76.43764	23.26506	0.0068
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G744	Mod	74.58212	24.75869	0.0219
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G745	Mod	83.04733	16.29147	0.0372
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G746	Mod	77.02941	21.39554	0.0179
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G747	Mod	74.2411	24.66967	0.0335
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G748	Mod	76.2571	23.2156	0.0201
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G749	Mod	77.35036	22.01871	0.0197
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G750	Mod	78.71442	21.01966	0.0151
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G751	Mod	72.37555	26.88539	0.0096
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G752	Mod	89.77737	9.515725	0.0874
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G753	Mod	80.921	17.87413	0.0327
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G754	Mod	85.12351	13.92738	0.0289
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G755	Mod	73.0676	26.85571	0.0264
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G756	Mod	85.77545	13.11627	0.0264
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G757	Mod	76.76863	23.02766	0.0179
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G758	Mod	69.99847	28.49771	0.0171
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G759	Mod	79.01532	20.61411	0.0147
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G760	Mod	87.66107	11.33578	0.1431
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G761 Phase 1	Mod	80.63013	18.94242	0.019
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G761 Phase 2	Mod	76.27717	23.39365	0.0098
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G762	Mod	81.74345	17.22128	0.0499
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G763	Mod	85.77545	13.38334	0.0447
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G764	Mod	78.33329	19.14026	0.0338
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G765	Mod	85.34416	14.2637	0.0305
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G766	Mod	75.10367	24.00693	0.0281
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G767	Mod	66.9193	30.79257	0.0305
Thistle	Donahue Ck	Lower Donahue	575318	7000047	7	YGP2011TWM19G768	Mod	72.85698	26.26221	0.0187
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G61		85.19901	13.44604	0.0223
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G62		88.30609	10.64934	0.0278
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G63		87.50966	10.87825	0.0238
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G64		83.15384	15.35695	0.0437

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM19G743	0.1552	99.86469	
YGP2011TWM19G744	0.3977	99.7604	
YGP2011TWM19G745	0.1125	99.48851	
YGP2011TWM19G746	0.634	99.07686	
YGP2011TWM19G747	0.6176	99.56187	
YGP2011TWM19G748	0.096	99.58881	
YGP2011TWM19G749	0.1588	99.54758	FeS2
YGP2011TWM19G750	0.2235	99.97269	
YGP2011TWM19G751	0.6547	99.92523	
YGP2011TWM19G752	0.0432	99.4237	
YGP2011TWM19G753	0.4824	99.31023	FeS2
YGP2011TWM19G754	0.2405	99.3203	
YGP2011TWM19G755	0.0342	99.98391	
YGP2011TWM19G756	0.179	99.09712	FeS2
YGP2011TWM19G757	0.2751	100.0893	
YGP2011TWM19G758	0.8655	99.37878	FeS2
YGP2011TWM19G759	0.2108	99.85493	
YGP2011TWM19G760	0.0072	99.14715	
YGP2011TWM19G761 Phase 1	0.0056	99.59715	PbS
YGP2011TWM19G761 Phase 2	0.049	99.72962	
YGP2011TWM19G762	0.4464	99.46103	
YGP2011TWM19G763	0.2539	99.4574	
YGP2011TWM19G764	1.28	98.78735	FeS2
YGP2011TWM19G765	0.2639	99.90226	FeS2
YGP2011TWM19G766	0.3694	99.50809	FeS2
YGP2011TWM19G767	1.85	99.59237	
YGP2011TWM19G768	0.5242	99.66209	
YGP2011TWM11G61	0.1178	98.78515	
YGP2011TWM11G62	0	98.98324	FeS2
YGP2011TWM11G63	0.4329	98.84462	FeS2
YGP2011TWM11G64	0.3391	98.89359	FeS2, FeS2/CuFeSbS, CuSbS

B 6. Thistle Creek Data

Area	River	Loc_ID	Easting	Northing	Zone	Identifier	Shape	Au_pct_N	Ag_pct_N	Cu_pct_N
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G65		85.50381	12.5503	0.018
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G66		88.32576	11.14698	0.0193
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G71		87.94229	11.73418	0.0295
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G72		88.59124	10.88821	0.0325
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G73		85.74963	13.17732	0.0264
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G74		78.34573	20.602	0.0003
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G75		86.26093	12.81902	0.0409
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G76		73.74409	25.70771	0.0067
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G77		80.98085	17.4072	0.0104
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G78		97.12589	2.000484	0.1889
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G79		86.49691	12.5503	0.0152
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G710		84.40257	15.10813	0.0118
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G711		89.49583	9.02706	0.0397
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G712		87.63748	11.45551	0.0341
White	Frisco Ck	Mid Frisco	576552	7009226	7	YGP2011TWM11G713		85.99545	13.20718	0.032
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G71		84.58887	13.34074	0.0365
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G72		89.50705	10.01533	0.0422
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G73		77.6714	21.91832	0.0244
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G74		86.85802	11.7465	0.0411
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G75		88.15755	10.50436	0.029
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G76		88.43745	10.02511	0.0287
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G77		86.47816	12.22575	0.0267
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G78		70.27413	28.16812	0.0055
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G79		92.43597	7.218082	0.0342
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G710		82.80951	15.80545	0.0186
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G711		88.25751	10.62173	0.0297
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G712		87.64774	11.65847	0.0198
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G713		80.21047	18.00608	0.0263
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G714		92.346	6.807297	0.0777
White	Frisco Ck	Ben the Pilot	576552	7009226	7	YGP2011TWM15G715		85.98834	13.49723	0.0269

B 6. Thistle Creek Data

Identifier	Hg_pct_N	total	Min_Inc
YGP2011TWM11G65	0.2273	98.29942	FeS2
YGP2011TWM11G66	0.0153	99.50733	FeS2?BaSO4
YGP2011TWM11G71	0	99.70598	
YGP2011TWM11G72	0	99.51195	FeS2
YGP2011TWM11G73	0.2163	99.16965	
YGP2011TWM11G74	0.3945	99.34252	FeS2, PbS
YGP2011TWM11G75	0	99.12085	
YGP2011TWM11G76	0.329	99.78751	
YGP2011TWM11G77	0.5182	98.91665	FeS2
YGP2011TWM11G78	0	99.31526	FeS2
YGP2011TWM11G79	0	99.06241	
YGP2011TWM11G710	0	99.52251	FeS2
YGP2011TWM11G711	0.1243	98.68689	
YGP2011TWM11G712	0.3972	99.52429	
YGP2011TWM11G713	0.2162	99.45082	
YGP2011TWM15G71	0.2729	98.23901	
YGP2011TWM15G72	0	99.56458	
YGP2011TWM15G73	0.0902	99.70432	
YGP2011TWM15G74	0.3954	99.04102	
YGP2011TWM15G75	0.1399	98.83081	
YGP2011TWM15G76	0.7335	99.22476	
YGP2011TWM15G77	0.0716	98.80222	
YGP2011TWM15G78	0.8105	99.25826	
YGP2011TWM15G79	0	99.68826	
YGP2011TWM15G710	0.2135	98.84706	
YGP2011TWM15G711	0	98.90894	
YGP2011TWM15G712	0	99.326	
YGP2011TWM15G713	0.6252	98.86805	
YGP2011TWM15G714	0	99.231	
YGP2011TWM15G715	0.063	99.57547	