2013-012 YMIP REPORT
ON THE RIVIER PROPERTY
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

LOCATION

NAD 83 Zone 9 384000 E 6819000 N
61° 29' 14.1" N 131° 10' 42.5" W

FOR

Voyager Gold Corp.
650-200 Burrard Street
Vancouver, B.C.,
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1.0 SUMMARY

This report was prepared for Voyager Gold Corp to document exploration work completed on the Rivier property in 2013, to satisfy the terms of YMIP 2013-012 contribution agreement and to provide an independent assessment on the 2010, 2011, 2012 and 2013 exploration programs on the Rivier property, Yukon Territory. The figures accompanying this report displaying the geochemical results also include geochemical data from 2010-2012 exploration seasons and outside of the grid area, some data from pre-2010 assessment reports.

The Rivier property located 220 km northeast of Whitehorse, Yukon, comprises 116 two-post quartz claims covering 2425 hectares (24 km2) mostly on NTS map sheet 105G/05, with some claims extending onto adjoining map sheet 105G/11. Access to the property is by helicopter. In 2013, the crew were accommodated at Inconnu Lodge and the helicopter was re-fueled at the Finlayson lake float plane dock. The closest road access point is the Robert Campbell highway at Finlayson Lake some 28 km to the east.

The property is 100% owned by Voyager Gold Corp subject only to certain option agreements between Radius Gold Corp, and R. W. Hulstein.

Work programs targeting gold mineralization were completed on the Rivier claims in 2010 for Radius Exploration Inc., and for Voyager Gold Corp in 2011, 2012 and 2013.

The Rivier property covers a central block of listwanitized ultramafic rocks thought to be either a differentiated sills within the Yukon Tanana terrane or a displaced remnant/slice of Slide Mountain ophiolite rocks. Intense magnetite destructive listwanite alteration around the margins of the serpentinized peridotite requires significant migration of CO rich fluid along significant structural breaks. A steep southwest dipping thrust slice best explains the observed geological alteration at the contacts of the ultramafic rocks.

Well defined gold in soil anomalies along the north, south and western exposures of the listwanite alteration are defined by strong gold, silver, arsenic and antimony in soil anomalies measuring 2000 m by 300 m along the northern side of the listwanite and along the southwest side a 1200 m by 400 m area containing two anomalies called the West and South zones. Each of the North, West and South zones is anchored by at least one sample returning > 2.0 gm/t Au.

The Rivier property is an excellent gold exploration target with compelling geochemical results or gold, silver, arsenic and antimony that requires additional work. To the authors knowledge, this is the only listwanite-gold vein occurrence that has been reported in this part of Yukon Tannana terrane although a number of well documented occurrences are known on the opposite side of the Tintina fault in correlative rocks to these but displaced some 450 km along the right lateral Tintina fault. Further work is required and recommended.

2.0 INTRODUCTION

This report documents and reviews exploration work on the Rivier property completed during the 2013 exploration seasons. The Rivier Property is located in southeastern Yukon Territory (Figure 1). Exploration work completed on the property in 2013, partially funded through YMIP contribution Agreement 2013-012 included: prospecting, geological mapping, rock, soil and silt sampling. Maps and figures show plots of all geochemical data collected or collated by Voyager Gold Corp since 2010. Location data, sample descriptions and analytical certificates for the 2013 geochemical data is provided in Appendices A and B. Prior detailed exploration results from the 2010-1012 seasons are found in reports by MacGearailt (2010), McKnight and Keyser (2011), Walker (2012), and Hulstein (2012).

R. Allan Doherty, P.Geo., worked on the Rivier property for 4 days September 7-10, 2013, and visited most of the sites returning anomalous gold in soil or rock samples on the property and carried out independent geological mapping. At the same time, Kel Sax and Stion V collected soil and rock samples and, prospected. The report is based on the 2013 work and on referenced data. Most public data is available on-line. The author has worked on numerous listwanite altered gold quartz vein occurrences in both the Yukon and British Columbia and is familiar with the specific deposit model.

Sources of information on the area geology include recent geological mapping by the Yukon Geology Program (YGS) and the Geological Survey of Canada (GSC), a number of assessment reports on work completed prior to 2010 by various companies are listed in the References section of this report and are available on-line at www.emr.gov.yk.ca/library/.

3.0 PROPERTY LOCATION AND ACCESS

The Rivier property is located 80 kilometres southeast of Ross River and 220 kilometres east of Whitehorse. Access to the property is most conveniently provided by helicopter. The closest staging areas available are located along the Robert Campbell highway approximately 30 kilometres northeast of the property. A gated road from the Campbell highway to the Wolverine mine site passes to the southeast of the property. An old ATV/small cat trail is still visible in the east-west valley on the south side of the claims. The 2010 exploration crew noted the presence of hunters on ATVs, indicating the road is usable (MacGearailt, 2010).

The Voyager Gold Corp property consists of 116 quartz claims, approximately 2424 ha, located in the Watson Lake Mining District, Yukon Territory, Canada (Figure 1). The claims are located mostly on NTS 105G/06 with 11 claims located on the southern part of adjoining map sheet 105G/11 (Figure 2). The claims (the "Property") are listed in Table I which shows claim name and number, grant numbers, expiry date and registered owner.

The claims have not been surveyed. Claims were staked in 2010 and 2011. Claims are marked using 2" by 2" by 4' long posts with claim tags affixed prior to locating the claim. The claims have are not been surveyed but any claim posts located in the field were checked using hand held GPS and were found to be in the locations provided on current claim maps.

TABLE I
RIVIER PROPERTY CLAIMS

Claim Name	Grant Numbers	# Claims	Registered Owner	Expiry Date
Rivier 1	YD58798	1	Rackla Metals Inc. - 100%	22-Apr-16
Rivier 2-18	YD58799-YD58815	17	Rackla Metals Inc. - 100%	22-Apr-16
Rivier 19-22	YD61450-YD61453	4	Rackla Metals Inc. - 100%	22-Apr-16
Rivier 23-40	YD58820-YD58837	18	Roger W. Hulstein - 100%	22-Apr-16
Rivier 41-44	YD61454-YD61457	4	Rackla Metals Inc. - 100%	22-Apr-16
Rivier 45-62	YD58842-YD58859	18	Roger W. Hulstein - 100%	22-Apr-16
Rivier 63-66	YD61458-YD61461	4	Rackla Metals Inc. - 100%	22-Apr-16
Rivier 67-112	YD58864-YD58909	46	Roger W. Hulstein - 100%	22-Apr-16
Rivier 113-116	YD61462-YD61465	4	Rackla Metals Inc. - 100%	22-Apr-16
	Total Claims	116		

Adjoining contiguous claims to the north of the Rivier claim block are held by other companies.

In accordance with the Yukon Quartz Mining Act, yearly extensions to the expiry dates of quartz claims are dependent upon conducting $100 of work per claim per year or paying the equivalent cash in lieu of work. Work must be filed before the claim expiry date for the year the work was completed. Provisions in the Quartz Mining Act allow filing after the annual expiration date but only for one year and with penalty fees. Excess work can be used to extend expiry dates up to maximum of four years. Assessment costs can be applied to contiguous claims through filing grouping certificates (up to 750 contiguous claims). Filing a statement of work and costs, and submission of an assessment report to the Watson Lake Mining Recorder verifying completion of the work is required. A $5 fee is payable for each assessment year claimed.

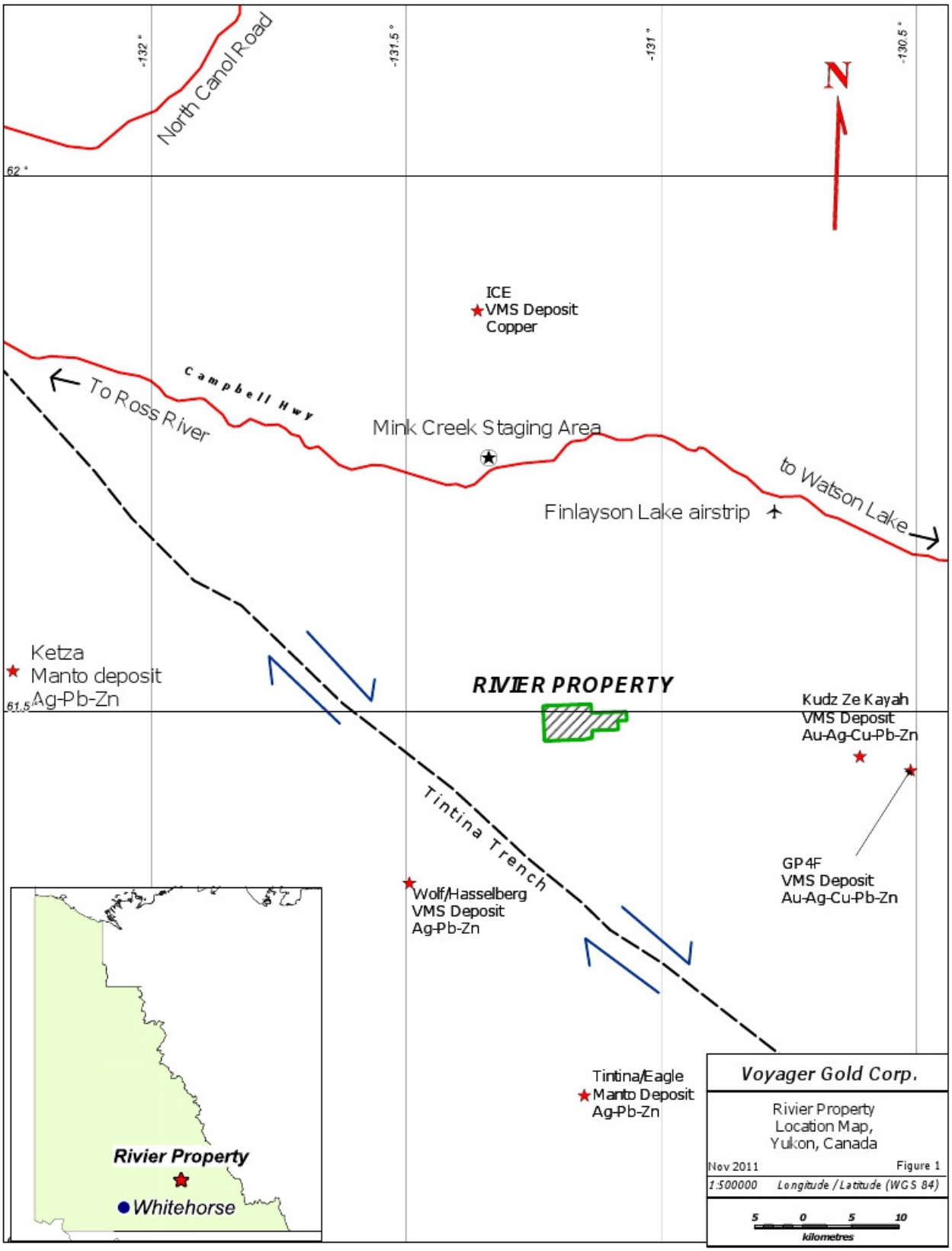
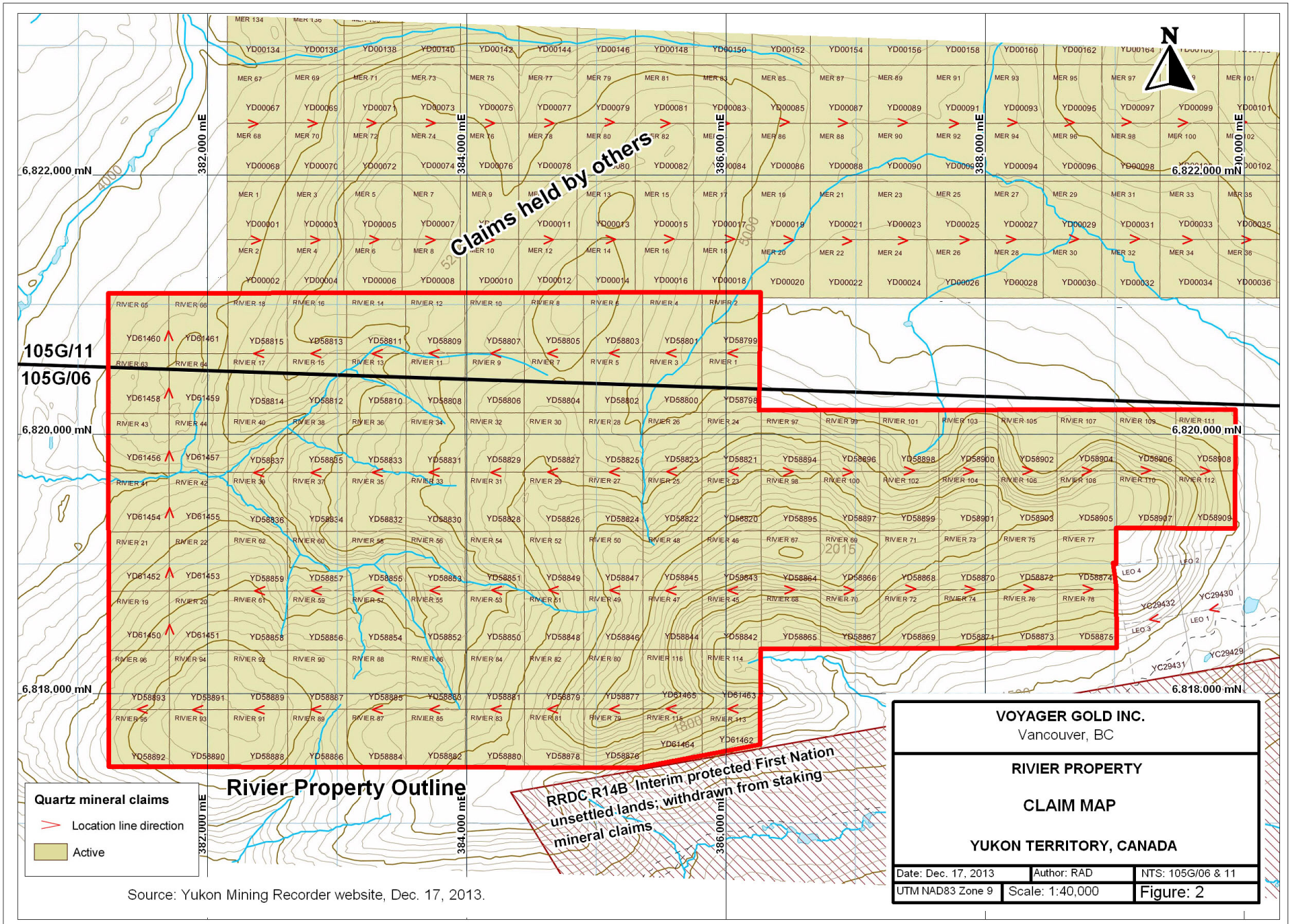


FIGURE 1: Rivier Property Location Map



Source: Yukon Mining Recorder website, Dec. 17, 2013.

A Yukon Mining Land Use Permit is required before significant exploration activities, that exceed certain defined threshold, can proceed. An application for a Class III Mining Land Use permit automatically triggers a Yukon Environment and Socio-economic Assessment Board review of the proposed activity. The permitting process can be completed normally within 100 days or less. When a drill program is permitted, the proponent is also required to file a notice of water use for drilling with the Yukon Water Board. Voyager Gold Corp may require a Class II or III land use permit prior to completing further work on the Rivier property.

Annual notices of work commencement and season final reports are required by Mining Land Use. Permits can be amended and renewed. Permit documentation is available through the YESAB on-line registry at www.yesab.ca/registry

On December 23, 2013 Yukon government announced an interim staking prohibition order in the RRDC traditional territories until April 30, 2014. The Yukon government plans to remove the requirement for 2014 for mining claim holders in the Ross River Area to perform work on their claims or pay in lieu. Final land designations and possible regulatory changes should be finalized by April 30, 2014 and the moratorium should hopefully be lifted.

There are no environmental issues associated with the property. There are a few old hand trenches on the west side of the property and three shallow cat trenches to the east of the claim block. An old trail is located on the south of the claim block. ATV's were noted by exploration crews on these trails in 2011.

4.0 ACCESS, CLIMATE, PHYSIOGRAPHY

From Whitehorse (population 27,000) there is daily jet airplane service to Vancouver, Calgary, Edmonton and Ottawa via Yellowknife and other points south. Whitehorse is a major center of supplies, communications and has a source of skilled labour for exploration diamond drilling, construction and mining operations. Basic services including room and board, fuel, communications and helicopter services are available at Ross River (population 337 in 2001).

There are no facilities on the Rivier Property. Portable electrical generators provide sufficient power for exploration stage programs and the creeks in the area provide sufficient water for camp and diamond drilling requirements on the Property. The Property provides sufficient area for potential future mine infrastructure such as tailings storage, waste disposal sites, heap leach pads and processing plant facilities.

Regional topography is typical of a glaciated area with wide valleys and steep hillsides. The Rivier Property lies adjacent to the Pelly Mountains of the northern Cordillera, and drainage is into the Yukon River via the Pelly River. The topography of the area covered by the Rivier claims is a broad, gently dipping plateau with sharp descents into narrow valleys carved by first and second order streams. Steep hillsides ascending to regional topographic highs occur on the east side of the Property. Elevations on the Rivier Property range from 1,300 meters in valley

bottoms to 2,000 meters at the top of the highest ridge, with much of the property above the approximately 1,500 m tree line. Permafrost is present on north-facing slopes. Evidence of solifluction lobes and transported colluvium are present.

Climate in the claim area is typical of highlands in the Yukon, characterized by low precipitation and a wide temperature range featuring a long cold winter (temperatures of -30^{o}C to -45^{o}C are common) and short summers with daily highs of 10^{o}C to 25^{o}C. The seasonal window for prospecting and exploration is from late May to late September.

Outcrop is plentiful on high ridges, and locally abundant on steep slopes and cliff sides. Locally derived bedrock float is abundant in areas with little to no vegetation. The peaks in the center of the property are barren. Vegetation ranges from to moss and grass along the higher elevations of the plateau, to willow, dwarf birch and conifers along valley bottoms, southern facing slopes and lower elevations of the plateau.

5.0 HISTORY

The mid-Paleozoic volcanic rocks of the Yukon-Tanana Terrane in the Finlayson Lake district have long been explored by numerous companies for the possibility of volcanogenic massive sulphide (VMS) deposits. Several VMS discoveries were made in the area in the 1990s including the Kudz ze Kayah deposit by Cominco in 1994, the Wolverine deposit by Westmin Resources Ltd. and Atna Resources Ltd. in 1995, the Ice deposit by Yukon Zinc Corporation in 1996, and the GP4F deposit by Cominco Ltd. in 1998. Both the age range and host rocks for the deposits are diverse within the Terrane (Murphy et. al., 2006).

The area around the claim blocks has a recorded history of exploration extending to the 1950's when increased access and interest was gained with the discovery of the Vangorda Creek deposit (Sevensma & Heard, 1967). A 1966 assessment report for Northlake Mines Ltd. mentions the presence of several old cabins and placer workings in the area that were likely a product of placer miners at the turn of the 20th century (Sevensma & Heard, 1966).

Aside from Northlake Mines Ltd., a number of other companies and individuals have explored the general area over the last half of the 20th century including Newmont Exploration Ltd., Pelly River Exploration, Chevron Resources Ltd., Hudson Mining and Smelting Company Limited, Riviera Mines Ltd., Empire Metals Corporation Ltd., and Welcome North Mines Ltd. Since the discovery of the VMS deposits in the vicinity, companies that have explored the area include Expatriate Resources Ltd., Cominco, Pacific Bay Minerals, True North Gems and Arcturus Ventures Inc.

The property was staked by Roger Hulstein in 2010 based on the geology and the presence of a number of high gold values from regional stream sediment surveys completed in the late 1980's by the GSC.

Aurora Geosciences Ltd. completed a reconnaissance exploration program on the Rivier Property in 2010 for Radius Gold Inc., and more detailed follow-up geochemistry was conducted in 2011 by Voyager Gold Corp. over an anomalous area identified in 2010.

Apart from the 2010 program which was executed on behalf of the Radius Gold Inc., four assessment reports (Potter, 1988, MacRobbie, 1995, Burgert, 1997, and Moyle & Wesa, 1998) cover historic claim blocks that are now covered by the current Rivier claims.

The assessment report by Potter (1988) for Welcome North Mines describes an exploration program including rock and soil sampling that indicated low grade pervasive gold associated with strong arsenic anomalies over listwanite. More work was recommended but the claims were allowed to lapse (Potter, 1988).

The program by Welcome North Mines Ltd. consisted of extensive soil sampling over and around the ultramafic body in 1988 in which 1,068 B-horizon and talus soil samples were collected along with 82 rock samples (Potter, 1988). Two anomalous zones were identified that were coincident with the ultramafic body and were labeled North zone and South zone. Hand trenching was also done. Samples were collected in two stages. Stage 1 identified the anomalous zones, had a line spacing of 300 metres and sample spacing of 50 metres on lines laid out by compass and hip-chain at a mine grid orientation of 030°. Stage 2 had 100 metre line spacing and 20 metre sample spacing, and focused on the anomalous zones outlined by stage 1. Gold values ranging from below detection to 5,300 ppb and arsenic values ranging from 10 ppm to 23,000 ppm were obtained.

MacRobbie (1995), reported work done on the INK claim block, staked to cover a geophysical target identified by Cominco in 1994. The claims occupied a portion of the northeast corner of the current property. Forty soil samples and one silt sample were found to have no favourable indications of mineralization and no further work was recommended. This report also mentioned the staking of Minfile 105G 022 as the OUR claims by D. Thrasher in 1969, for which no assessment work was filed. Moyle & Wesa (1998), reported exploration by Pacific Bay Minerals Ltd. on the INK claims that followed up the work done there by Cominco. No further work was recommended and the claims lapsed.

Burgert (1997) reported on 1996 mapping, prospecting and geochemistry program undertaken over the east extension of the current claims by Expatriate Resources Ltd. The exploration was focused on massive sulfides in a geographic area that corresponds to the eastern part of the current Rivier Property. A total of 78 samples were collected over 100 metre spacing on claim lines and two contour lines. Approximate sample locations were obtained by georeferencing a map from the assessment report (Burgert, 1997). No noteworthy anomalies were obtained; however, Expatriate did not analyze their samples for gold. The claims were allowed to lapse (Burgert, 1997).

Exploration by Aurora Geosciences on behalf of Radius Gold Inc. in 2010 included a 10-day reconnaissance geochemistry program. 267 soil samples spaced at roughly 200 metres, 37 silt samples and 22 rock samples were collected primarily on ridges, spurs and streams, with rock samples being focused primarily on exploration of the ultramafic body. Anomalous Gold-silver-

arsenic-antimony and nickel was found in and around the ultramafic body, with anomalous values extending to the south of the geologic unit. Values ranged from detection limits to 427 ppb gold, 8,042 ppb silver, 3,390.5 ppm arsenic, and 124.6 ppm antimony were acquired (MacGearailt, 2010).

Additional work by Voyager Gold Corp included a 472 line-kilometer magnetic and radiometric survey completed in October 2011 by Precision Geosurveys Ltd (Walker 2011) and in 2012 limited follow-up work including a property visit by Roger Hulstein, P.Geo who collecting 13 soil samples. A preliminary desk top magnetic modelling study of the Precision data by Todd Ballantyne of in3D Geophysics, is reported in an appendix to an assessment report by Hulstein (2012). His conclusions indicate that the ultramafic body has a limited depth extent.

There are no historical mineral resources and mineral estimates reported on the Rivier Property itself, and no records of previous mineral production.

6.0 GEOLOGICAL SETTING AND MINERALIZATION

6.1 REGIONAL GEOLOGY

The Rivier Property lies in a 50 km wide by 200 km long slice of Yukon Tanana Terrane (YTT) rocks on the northeast or (NA) side of the Tintina Trench. The project area is located 10-15 kilometres from the regional, NW/SE trending dextral strike-slip Tintina fault that offsets the rocks of the Finlayson Lake district approximately 450 kilometres southeast of comparable lithologies near Dawson City and the Klondike gold district. The Tintina fault is thus the southwest boundary of the YTT in this region. Figure 3 shows the relative locations of the Klondike District hosting a number of recently discovered gold deposits and Finlayson Lake District that hosts the Rivier Property.

Colpron (2006) identified the rocks of YTT as pericratonic in origin and are structurally complex. They currently occupy an intermediate position between continental margin rocks of Ancestral North America (NA) and terranes that were accreted in Mesozoic time. Poly-deformed and metamorphosed Paleozoic meta-sedimentary and meta-igneous rocks of the YTT are related to Archean and Proterozoic source regions.

Sheared mafic and ultramafic volcanic and plutonic rocks of the Slide Mountain Terrane overlie the pericratonic rocks of YTT and are preserved as klippen. The allochthonous assemblage has been interpreted as a dismembered ophiolite sequence and is made up of massive greenstone with associated sedimentary rocks, mafic and ultramafic gabbroic rocks and serpentine matrix melange. The age of the assemblage ranges from Late Devonian to Late Pennsylvanian-Early Permian based on fossil dating. The most recent mapping in the area (OF 2001-11 and OF 2004-33) identifies map units Dum and DMum as serpentinized mafic-ultramafic rocks. Serpentinized ultramafic is mapped in the Cleaver Lake thrust, the footwall of Money Creek Thrust and in

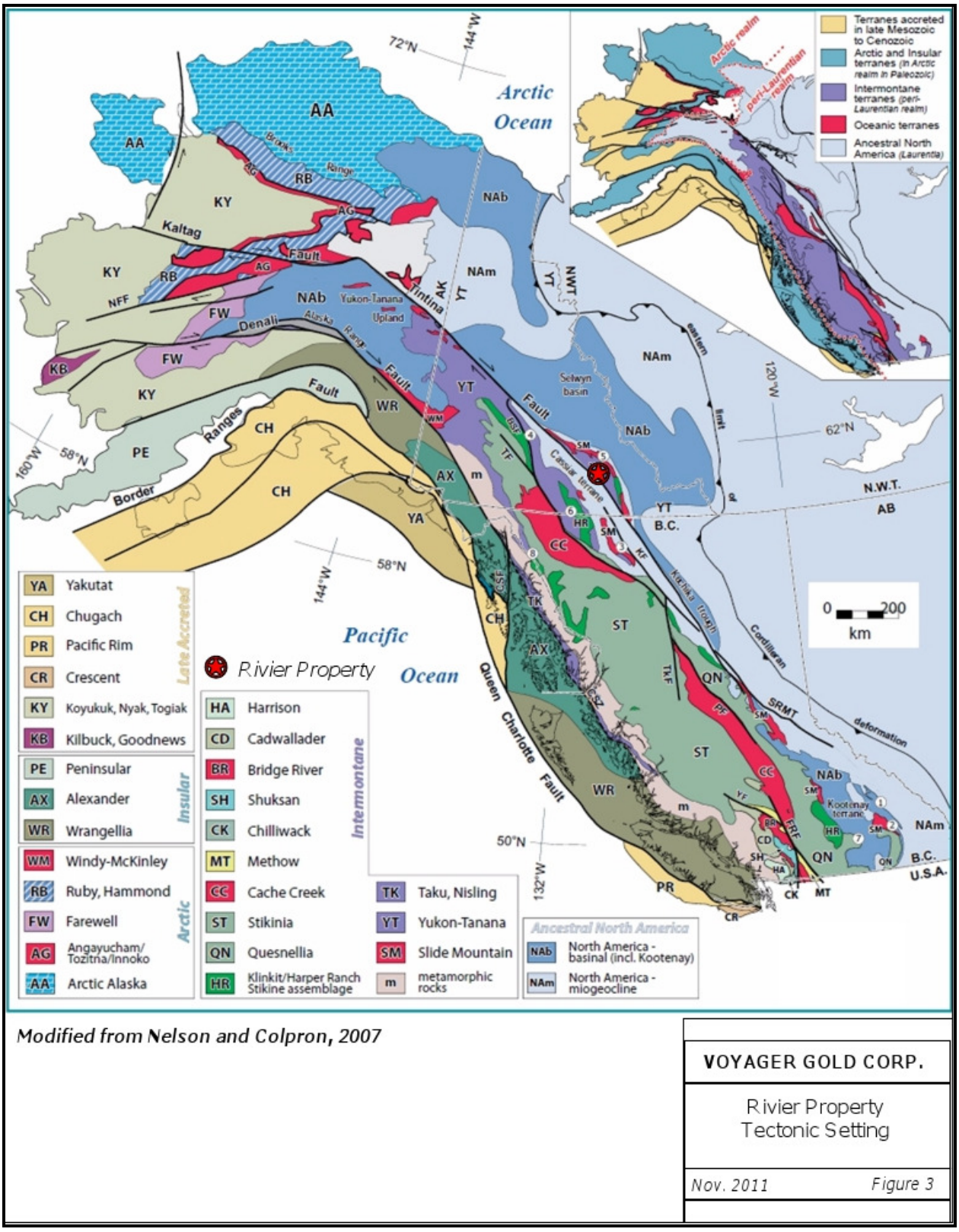


FIGURE 3: Regional tectonic setting

Slide Mountain Terrane. Piercy et al. (2004) report that the serpentinized ultramafic bodies mapped in the western side of the Finlayson district (Rivier property) are interpreted to be associated with and intrusive into DF unit and as such would not be considered part of Slide Mountain Terrane. In this report they are considerd to be a remnant of displaced Slide Mountain terrane well outboard of the mapped Slide Mountain package to the east.

In the case of the ultramafic rocks mapped on the Rivier property, geological mapping did not locate any indication of intrusive contacts rather, evidence indicated fault contacts with well foliated metaclastic and metavolcanic rocks of the Nasina Assemblage. A black shale melange fault breccia was located on the east side of the ultramafic rocks in the centre of the property. This suggests that additional mapping and interpretation is required to determine if the ultramafic body is intrusive or in fault contact with the foliated rocks and is part of Yukon Tanana or Slide Mountain terrane affinity. Also the presence of intense listwanite alteration on Rivier property favours the presence of a deep seated fault structure to introduce the volumes of CO_2 rich fluid required during the listwanite alteration process.

Cretaceous granitoid intrusions are exposed in the northeastern portion of the property.

6.2 PROPERTY GEOLOGY

The Rivier Property is underlain by various schistose meta-sediments of pericratonic YTT, overlain or intruded by a unit interpreted as Slide Mountain Terrane (?) altered ultramafic rock in structurally overlying the Nasina assemblage. The serpentinized peridotite is characterized by strongly magnetic serpentinite with extremely pervasive (non-magnetic) listwanite alteration around the margins. The Nasina assemblage on the Rivier Property is characterized by micaceous schists that are locally graphitic or chloritic, and is host to at least one generation of quartz veins.

This ultramafic unit is interpreted as a displaced, fault-bounded lithological unit from an ophiolitic protolith. Other gold-vein listwanite occurrences in the Canadian Cordillera have been determined to have originated from a mantle-derived peridotite/harzburgite (Dussell, 1986; Hansen, 2005), or komatiitic (Jutras, 2003) protolith. Skarnification or contact aureoles expected at the margins of intrusive bodies have not been identified on the Rivier property.

The ultramafic unit on the Rivier Property displays listwanite alteration facies similar to those described in other listwanite-associated gold bearing regions of the Canadian Cordillera (Ash and Arksey, 1990; Dussell, 1986; Hansen, 2005; Jutras, 2003). The listwanite altered ultramafic unit, is more resistant to weathering than the serpentine and outcrops or rubble crop of serpentine is only found within areas of strong listwanite alteration.

Structure on the property is dominated by broadly northwest-southeast faults normally near the listwanite altered ultramafic body contacts. Fracture sets may have been important for the alteration of the ultramafics to the listwanite assemblages, and also for structurally-controlled development of lode gold mineralization (Ash and Arksey, 1990). Numerous well developed

slickenside surfaces were noted while mapping and prospecting but are all post listwanite alteration and are not considered as significant mineralizing conduits.

The Property geology, as currently interpreted, is shown on Figure 4. Interpreted faults are based on field observations, satellite and air-photo lineaments, and airborne magnetic data.

7.0 MINERALIZATION

No economic mineralization has been directly identified on the property, though a 1988 exploration program by Welcome North Mines Ltd. identified two zones of possible gold-arsenic mineralization and anomalous soil geochemical values of up to 5,300 ppb gold (Potter, 1988), and the 2010 exploration program by Radius Gold Inc. identified a gold-silver-antimony-arsenic-nickel anomaly in soils extending around the ultramafic body (MacGearailt, 2010). Sulfides have been noted within the ultramafic unit but generally less than 1-2 % fine disseminated pyrite. Soil and rock sampling clearly shows that the gold anomalies are mostly located at the margin of the ultramafic body along interpreted faults.

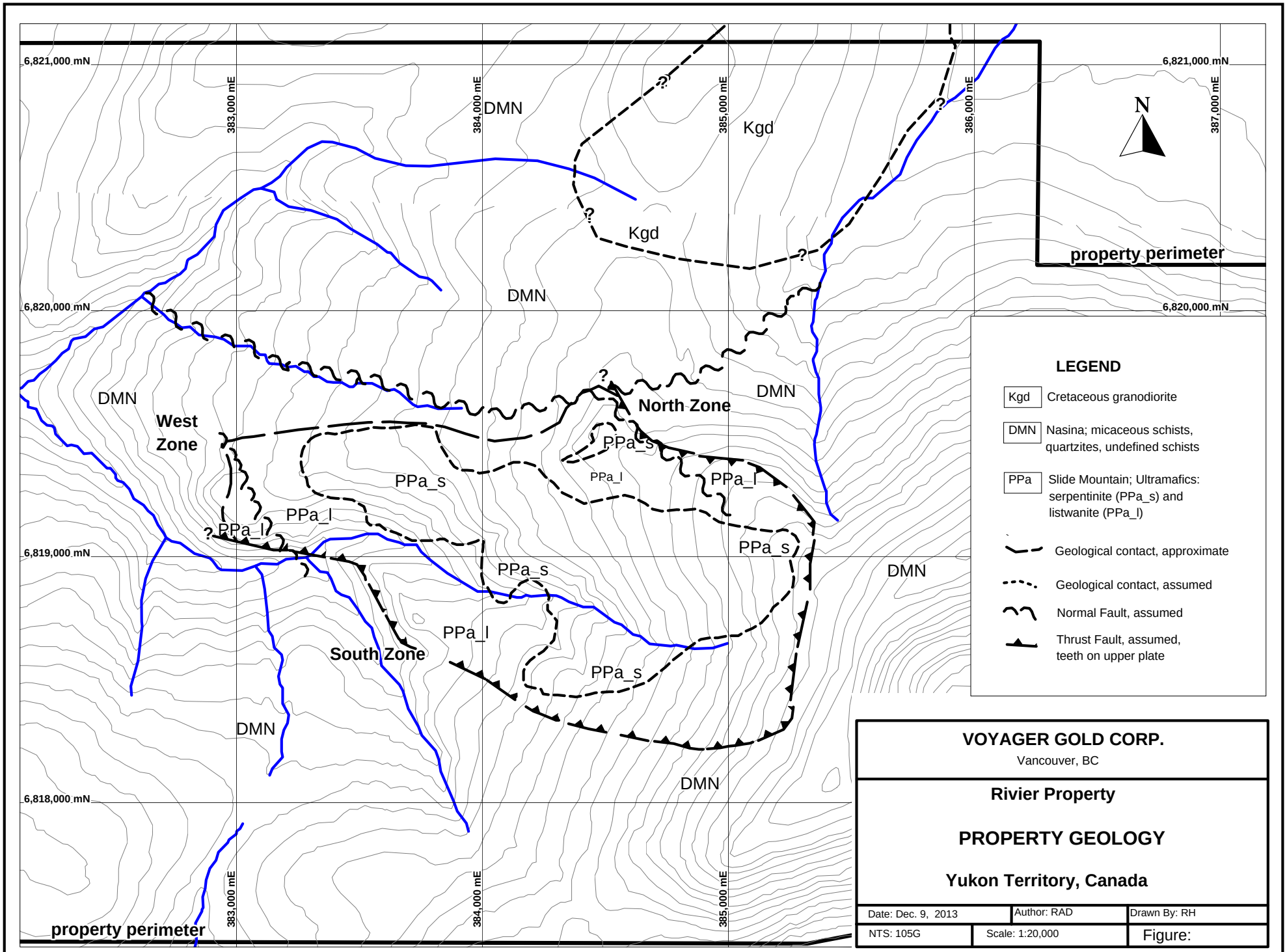
Three zones of potential mineralization based are outlined based on the results of the soil sampling programs and are open ended. These zones are coincident with the margins of the geomagnetic high, and are presently labelled North Zone, West Zone and South Zone, Figure 5. Values ranging from background to 2,625 ppb gold were obtained in the North Zone, from background to 2,265 ppb gold in the West Zone, and from background to 2,230 ppb gold in the South Zone.

There has been no mechanized trenching or drilling on the Rivier Property.

8.0 DEPOSIT TYPE

The Rivier Property is a gold-quartz vein deposit target, specifically gold in quartz-carbonate veins, associated with a listwanite altered slice of tectonically(?) emplaced serpentinized peridotite. Few of the commonly used deposit models refer to “listwanite” or chrome mica, fuchsite, mariposite that are commonly associated with this variation of the deposit type. The mineralization at Rivier would best be called listwanite associated gold quartz vein mineralization.

Exploration and prospecting in this region of the Finlayson district historically has been strongly associated with VMS deposits, with few reported gold-quartz vein occurrences. Correlative rocks in the Dawson district are known to host a number of listwanite associated gold quartz vein occurrences.



VOYAGER GOLD CORP.
Vancouver, BC

Rivier Property

PROPERTY GEOLOGY

Yukon Territory, Canada

Date: Dec. 9, 2013	Author: RAD	Drawn By: RH
NTS: 105G	Scale: 1:20,000	Figure:

The deposit model described here is a specific variation of the, Low–Sulphide Au-Quartz Veins (Model 36a of Cox and Singer 1986), or Au-quartz veins (Model I01 Yukon Deposit Profiles) Gold-Quartz veins and veinlets with minor sulphideminerals crosscut a wide variety of host rocks and are localized along major regional faults and related splays. The wall rock is typically altered to silica, pyrite and muscovite within a broader carbonate alteration halo. Gold-quartz veins are found within zones of intense and pervasive carbonate alteration including listwanite alteration along second order or later faults marginal to significant structural breaks. The favored orogenic regions are accreted oceanic terranes including mantle-derived ultramafic packages that have been subjected to tectonic forces (Ash and Arksey, 1990). Occurrences are recognized along or near major fault zones that cut oceanic and island arc accretionary terranes.

'Listwanite' is a term which describes a mineralogical assemblage derived from the carbonatization of serpentinized ultramafic rocks (Ash and Arksey, 1990). The resulting alteration suite that depending on alteration state can include talc, magnesite, chromium-rich micas (fuschite and mariposite), quartz, dolomite and magnesite, is often associated with lode gold deposits (Ash and Arksey, 1990).

The model for emplacement of gold involves the movement of a hydrothermal fluid rich in CO_2 and containing $Au(HS)_2$ through the reducing environment of the ultramafic body and occasionally, graphitic country rocks (Ash and Arksey, 1990). The association with gold mineralization is very frequent among areas with this particular geologic history, and most strongly associated with quartz-carbonate mineralization from late-stage progression of the alteration from serpentine to listwanite. Generally, deposits of this type feature high-grade and low tonnage, if erratic, gold deposits (Ash and Arksey, 1990).

Gold veins are more commonly economic where hosted by relatively large, competent units, such as intrusions or blocks of obducted oceanic crust. Individual deposits average 30 000 tonnes with grades of 16 grams per tonne gold and 2.5 grams per tonne silver. These types of deposit/occurrences are found in the Yukon in correlative rocks in the Dawson area and associated with other ultramafic rocks of found in Slide Mountain terrane (e.g. Clinton Creek) and within Cache Creek terrane (south of Whitehorse). Listwanite-lode gold deposits geographically near the project area include the Cassiar and Atlin districts in northern British Columbia (Dussell, 1986; Hansen, 2005). Other notable deposits are located in the California Mother Lode District, and the Ural Mountains of Russia where listwanite obtained its name (Ash and Arksey, 1990). Occurrences of listwanite are associated with alpine-type ultramafics. The listwanite-gold variant of this deposit type has a geochemical signature of Au, Ag, As, Sb and is some but not all deposits Cu, Pb, Zn, and even W, and Ba are present.

9.0 2013 EXPLORATION RESULTS

9.1 INTRODUCTION

Since the Rivier claims were staked in April 2010 by Roger Hulstein, there have been four exploration programs conducted: in 2010, by Radius Gold; and in 2011 2012 and 2013, by Voyager Gold Corp. Programs included mapping, prospecting, rock soil and silt sampling, and an airborne magnetic and radiometric survey in 2012. There were 1005 soil samples, 79 rock samples and 42 silt samples collected on the property from 2010 to 2013. All samples were submitted to Acme Analytical laboratories Ltd through their prep office in Whitehorse. This report contains all geochemical data and sample descriptions for samples collected in 2013. Maps show all geochemical data from 2010-3013 as well as some historical data from older assessment reports. 2013 sample number sites are provided in Figure 10 in Appendix A.

9.2 GEOLOGICAL MAPPING

Mapping was conducted mostly during the 2013 program but also in 2010 and 2011. The 2010 and 2011 exploration program consisted of refining units and unit contacts outlined in Yukon Geological Survey (YGS) maps and furthering structural measurements from the 2010 program. The objective in 2013 was to better define the contact relation and general distribution of the serpentinized peridotite and the extent of listwanite alteration. Geological units mapped on the property (Figure 4) show the Nasina Assemblage (DMN) of foliated layered metaclastic and metavolcanics rocks with minor limey lenses in more pellitic units, an ultramafic body consisting of serpentinized peridotite (PPa_s) with strong marginal listwanite altered zones (PPa_l) and Cretaceous granodiorite (Kg).

Outcrop of the very resistant (listwanitized) ultramafic unit is abundant near topographic highs, and combined with geomagnetic data, some contacts between the ultramafic and schistose Nasina Assemblage units were mapped. Structural measurements denoted a possible east-west structural control for quartz veining in the area, potentially following an east-west trend in the bedding of the schistose unit observed by the general trend of a large series of topographic lineaments.

9.3 GEOCHEMICAL SAMPLING

Voyager Gold Corp expanded on geochemical reconnaissance and grid soil sampling work done in the 2010 program for Radius Gold Inc. reported by MacGrailt (2010) with follow-up work in 2011 and 2013 consisting of further soil silt and rock geochemical sampling. Results for gold in soil samples are plotted on geology and magnetics in Figures 5 and clearly show the well-

developed anomalies on the northwest and southeast margins of the listwanite alteration apron around the central serpentinized peridotite.

9.3.1 SOIL AND SILT SAMPLING

Soil samples were initially collected from a grid with 100 metre line spacing oriented east-west, and 50 metre north-south sample spacing, with coordinates obtained using Garmin 60CSx and 62S GPS units. The grid covered in 2013 was an extension of previous gridding on the southwest and northeast side of the previous 2011 grid. A total of 142 soil samples and 6 silt samples were collected in 2013. Plots of Au, Ag, As, and Sb for soil, silt and rock geochemistry are shown on Figures 6-9.

A centimeter-scale ash layer was observed during geochemical sampling in the 2011 exploration program. This likely coincides with regional-scale ash layers deposited during geologically Recent Plinian eruptions in eastern Alaska which blanketed much of the Yukon. Many of the north facing moderate slopes show signs of active solifluction lobes producing concentric terraces of displaced colluvium. The ash layer and more importantly surficial transportation of colluvium by solifluction and freeze-thaw processes should be considered when interpreting soil sample results. The areas along the margins of the listwanitized serpentine are abruptly anomalous compared to soils collected directly over the mapped ultramafic complex.

Two consecutive soil samples collected in 2011 on the west side of the north zone returned 1115 ppb Au and 863 ppb Au. The sample sites were relocated and re-sampled. The samples were split in half and analyses were done on both the -80 and -150 fractions. The higher 1115.8 sample site was not reproduced and the 863 ppb Au site was anomalous but at 164.3 ppb Au in the -80 mesh fraction and 173.1 ppb Au in the -150 mesh fraction. The decrease may be related to sampling method in that the repeat samples were collected using a geo-tool and original samples with a soil auger. There is not a significant difference between the -80 and -150 mesh samples Table 2.

A 2011 soil sample site 1299505 on the North Zone returned 2625 ppb Au. The sample site is in a patch of finer grained talus below a 30 m listwanite scarp. The site was re-sampled in both 2012 (Hulstein, 2012)) and in 2013 as reported here. Values are very repeatable except in the sample collected by Hulstein 2012 which was treated as a rock sample and analysed by Fire Assay methods.

TABLE 2. FIELD DUPLICATE SAMPLES

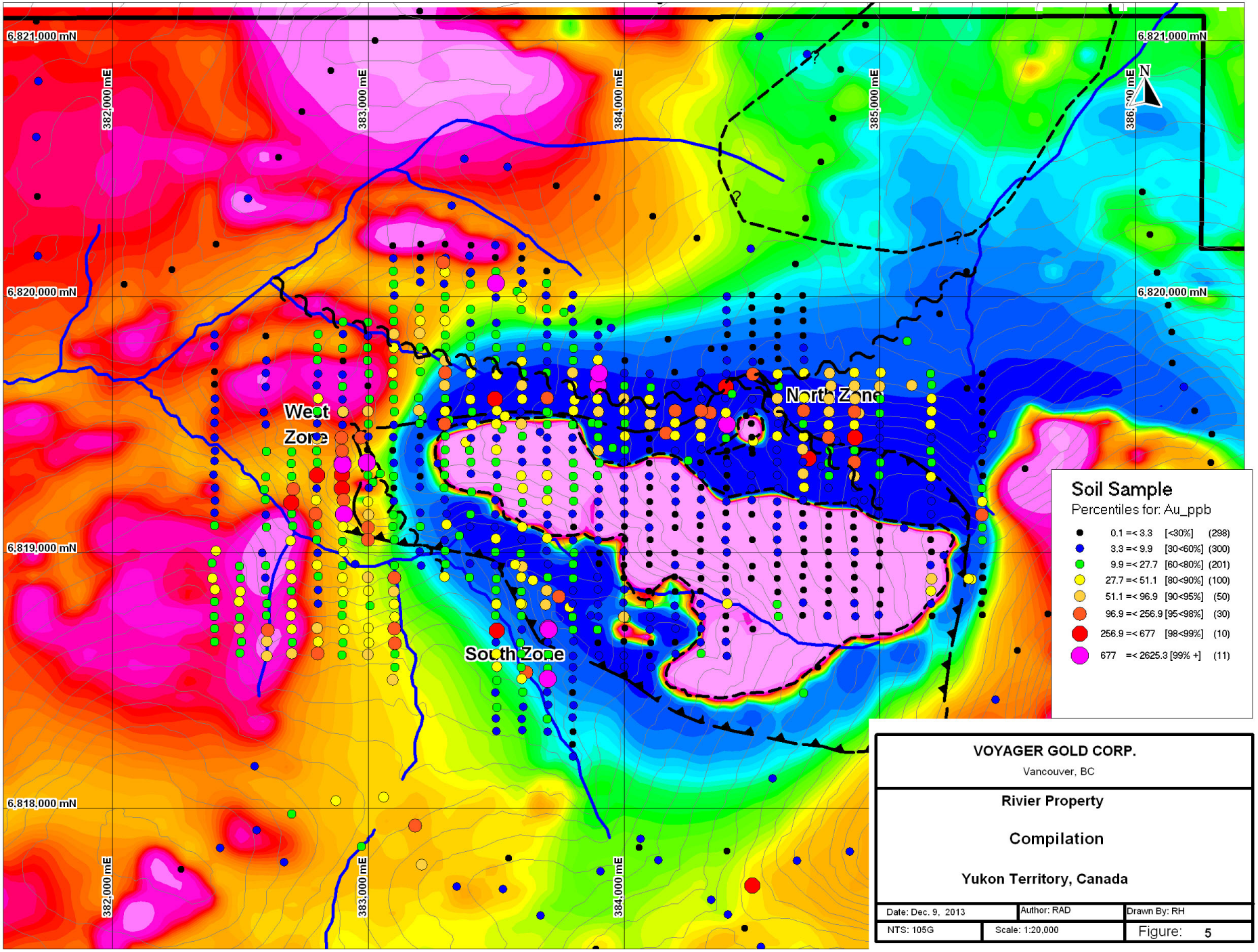
Sample_No	Type	Easting	Northing	Ag_ppb	As_ppm	Au_ppb	Sb_ppm	Mesh	ACME CERT	Year
1299831	Soil	383898	6819653	694	465.7	1115.8	25.47	-80	WHI11001713.1	2011
REP 1115	Soil	383898	6819653	465	308.7	25.6	18.95	-150	WHI13000430.1	2013
REP 1115	Soil1	383898	6819660	489	343.3	26.0	19.37	-80	WHI13000410	2013
1299832	Soil	383902	6819701	4611	4629.6	863.3	19.59	-80	WHI11001713.1	2011
REP 863	Soil	383902	6819701	1839	857.3	164.3	7.53	-80	WHI13000410	2013
REP 863	Soil	383902	6819701	1872	889.5	173.1	8.13	-150	WHI13000430.1	2013
1299505	Soil	384401	6819500	9298	10000	2625.3	85.57	-80	WHI11001712.1	2011
122503	Soil	384401	6819500	2900	4975.0	453.0	13.00	FA	WHI12000836.1	2012
REP 1299505	Soil	384401	6819500	9085	>10000.0	2262.4	89.40	-80	WHI13000410.1	2013
REP 1299505	Soil	384401	6819500	10772	>10000.0	2500.8	98.95	-150	WHI13000430.1	2013
1299862	Soil	382899	6819348	2129	6342	2266	212.00	-80	WHI11001713.1	2011
122507	Soil	382899	6819348	14152	8842	1476	120.00	-80	WHI12000835.1	2012

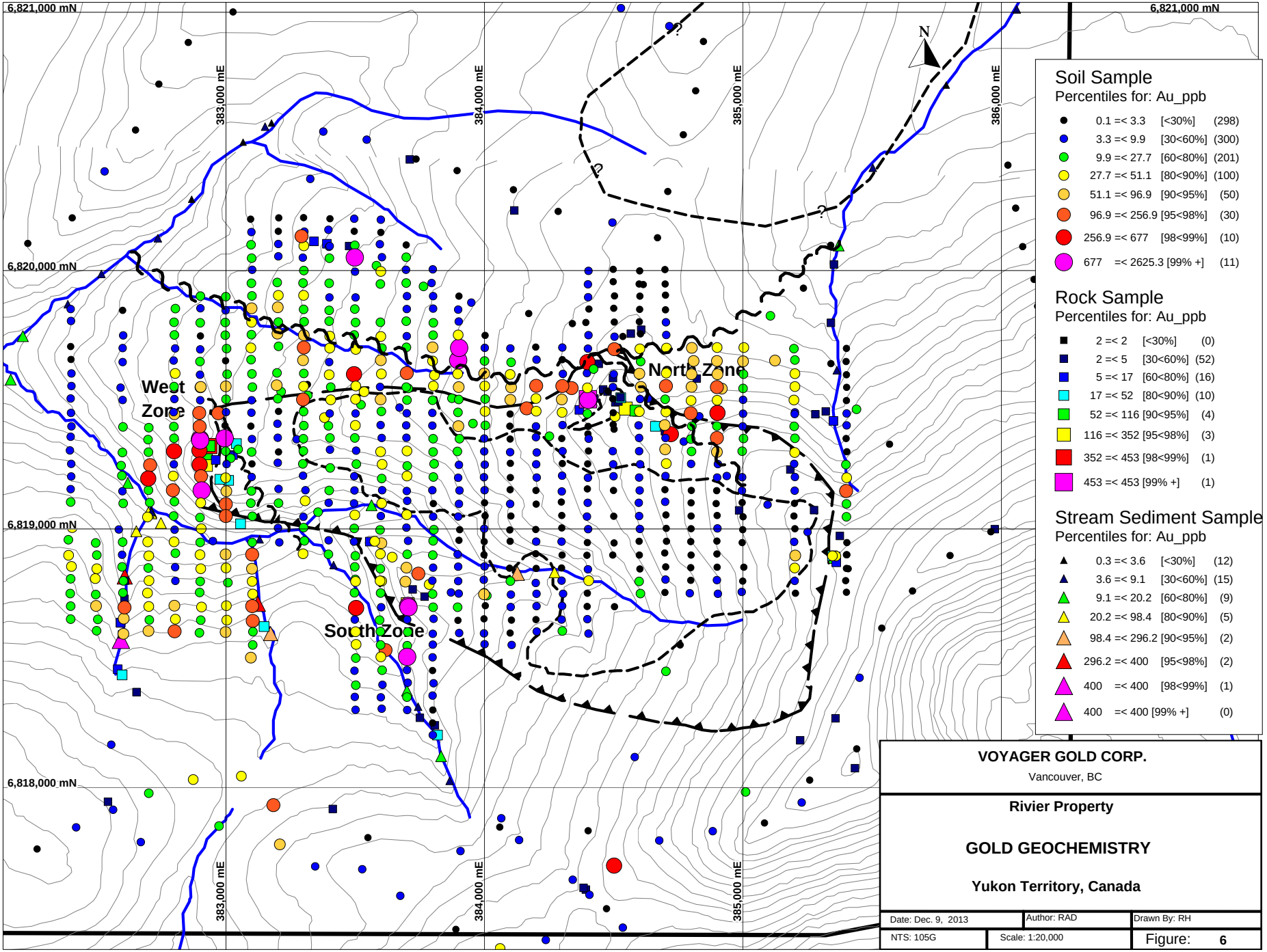
9.3.1 SILT SAMPLING

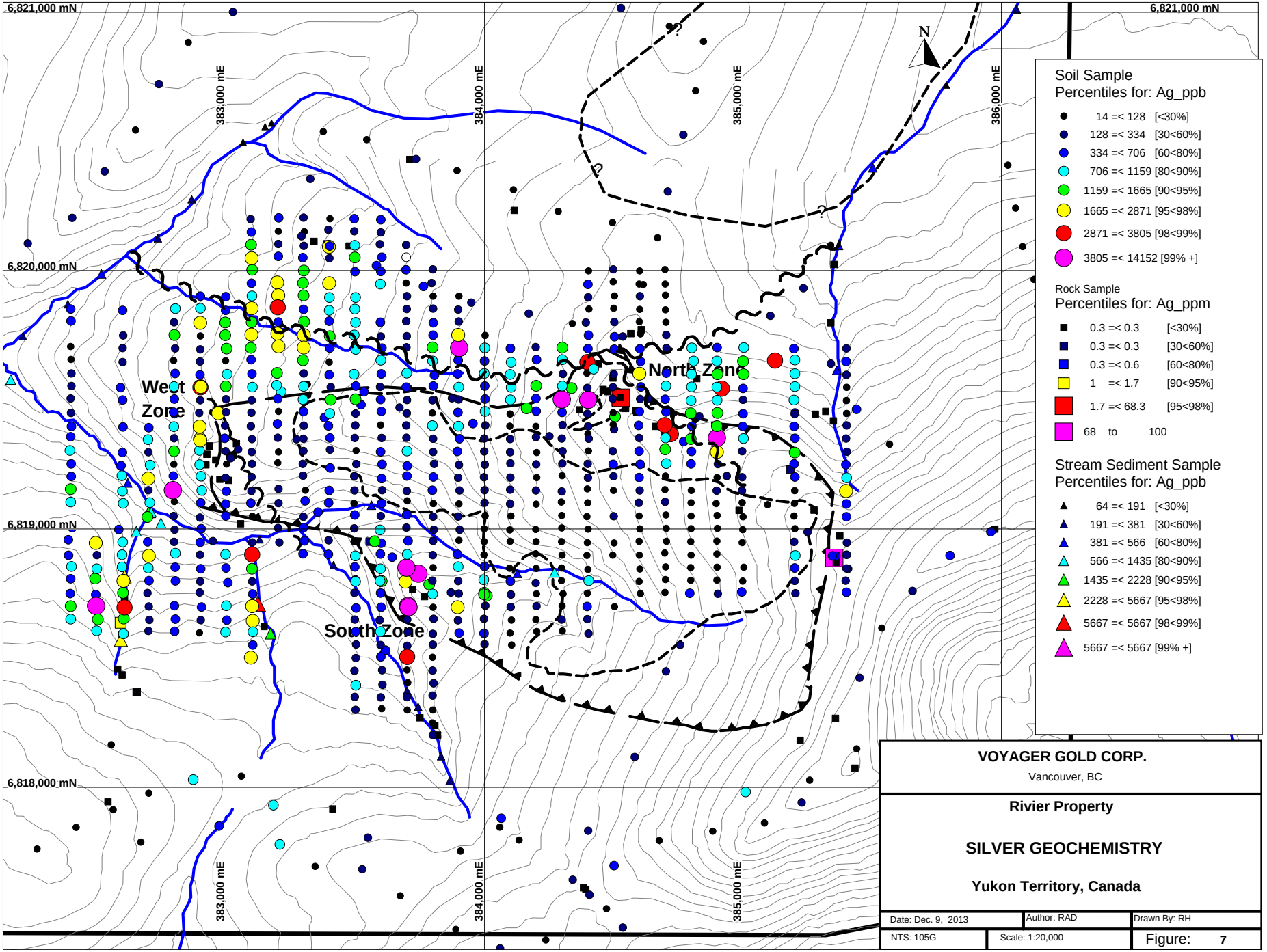
2011 silt sampling took place on streams in the southwest corner of the claim block surrounding the 2010 geochemical anomaly that were not sampled during the 2010 program. Values of 296 ppb Au and 2,228 ppb silver were obtained from a sample taken from a stream on the west side of the property that coincides with a magnetic high. Values of 87.5 ppb gold and 1,304 ppb silver were obtained from a second silt sample 175 metres downstream. An additional 8 silt samples were collected in 2013. Three silts (1348602, 1348615 and 1348616 all collected on the two southwesterly creeks between the West and South zone returned 400, 356.3 and 100.6 ppb Au respectively. These results suggest that the West and South zones may be one continuous zone and more soil sampling and rock sampling should be completed in this area.

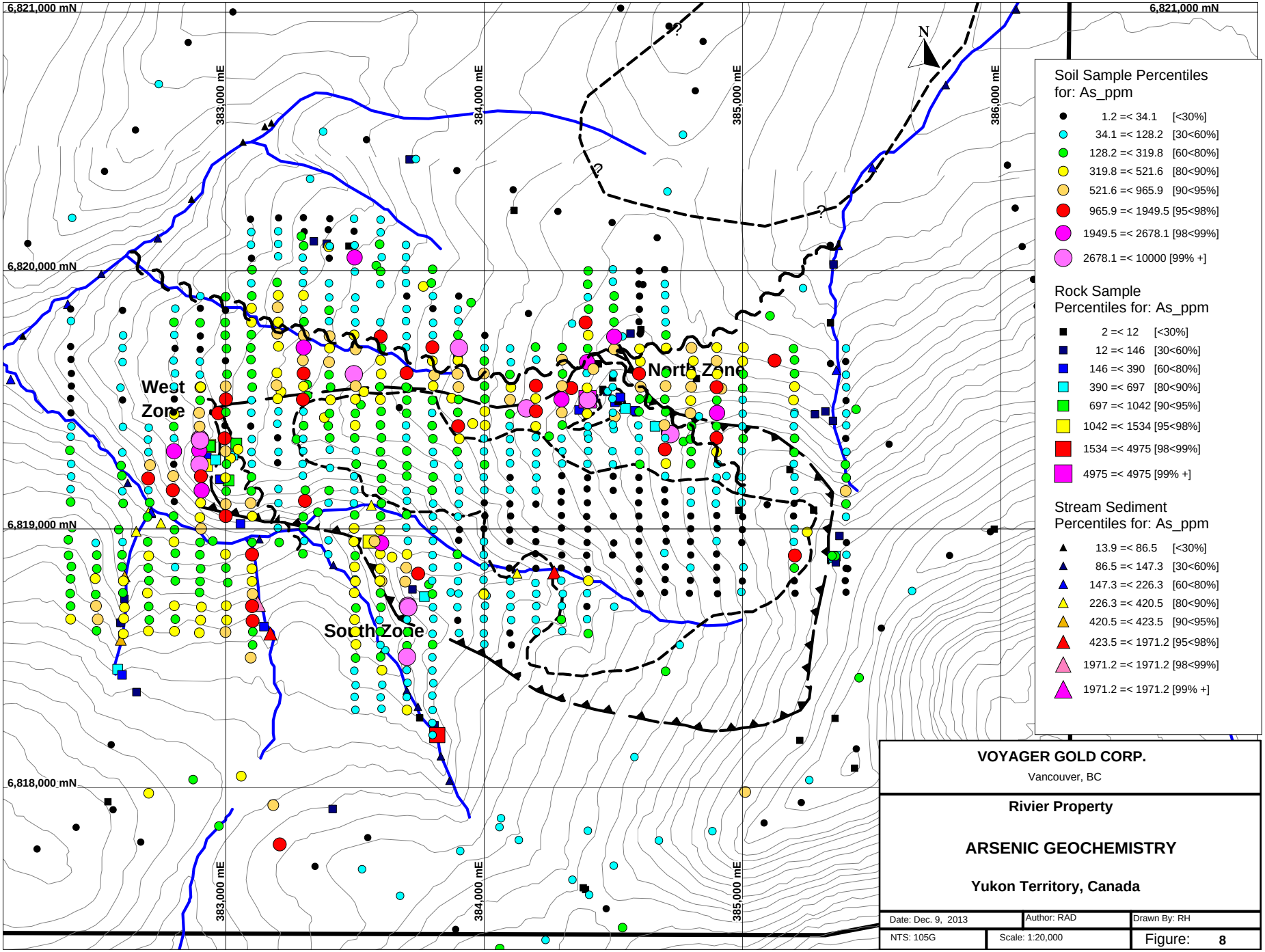
9.3.2 ROCK SAMPLING

Representative specimens of locally-derived quartz in float from a small area near the center of the North Zone were collected as a sample and analyzed. Geochemical values obtained from the sample 1299009 include 21 ppb gold, 154 ppm As, 8,712 ppm lead, 2,336 ppm zinc and 68.3 ppm silver. The quartz is milky white and contains sub-millimeter, parallel to sub-parallel oxidized fractures. No other notably anomalous values were obtained from any other rock samples during the various programs.


6,821,000 mN
6,820,000 mN
6,819,000 mN
6,818,000 mN
382,000 mE
383,000 mE
384,000 mE
385,000 mE
386,000 mE
N
West Zone
North Zone
South Zone
Soil Sample
Percentiles for: Au_ppb
0.1 =< 3.3 [<30%] (298)
3.3 =< 9.9 [30<60%] (300)
9.9 =< 27.7 [60<80%] (201)
27.7 =< 51.1 [80<90%] (100)
51.1 =< 96.9 [90<95%] (50)
96.9 =< 256.9 [95<98%] (30)
256.9 =< 677 [98<99%] (10)
677 =< 2625.3 [99% +] (11)
VOYAGER GOLD CORP.
Vancouver, BC
Rivier Property
Compilation
Yukon Territory, Canada
Date: Dec. 9, 2013
Author: RAD
Drawn By: RH
NTS: 105G
Scale: 1:20,000
Figure: 5


6,821,000 mN
6,820,000 mN
6,819,000 mN
6,818,000 mN
383,000 mE
384,000 mE
385,000 mE
386,000 mE
N
West Zone
North Zone
South Zone
?
?
?
Soil Sample
Percentiles for: Au_ppb
0.1 =< 3.3 [<30%] (298)
3.3 =< 9.9 [30<60%] (300)
9.9 =< 27.7 [60<80%] (201)
27.7 =< 51.1 [80<90%] (100)
51.1 =< 96.9 [90<95%] (50)
96.9 =< 256.9 [95<98%] (30)
256.9 =< 677 [98<99%] (10)
677 =< 2625.3 [99% +] (11)
Rock Sample
Percentiles for: Au_ppb
2 =< 2 [<30%] (0)
2 =< 5 [30<60%] (52)
5 =< 17 [60<80%] (16)
17 =< 52 [80<90%] (10)
52 =< 116 [90<95%] (4)
116 =< 352 [95<98%] (3)
352 =< 453 [98<99%] (1)
453 =< 453 [99% +] (1)
Stream Sediment Sample
Percentiles for: Au_ppb
0.3 =< 3.6 [<30%] (12)
3.6 =< 9.1 [30<60%] (15)
9.1 =< 20.2 [60<80%] (9)
20.2 =< 98.4 [80<90%] (5)
98.4 =< 296.2 [90<95%] (2)
296.2 =< 400 [95<98%] (2)
400 =< 400 [98<99%] (1)
400 =< 400 [99% +] (0)
VOYAGER GOLD CORP.
Vancouver, BC
Rivier Property
GOLD GEOCHEMISTRY
Yukon Territory, Canada
Date: Dec. 9, 2013
Author: RAD
Drawn By: RH
NTS: 105G
Scale: 1:20,000
Figure: 6


6,821,000 mN
6,820,000 mN
6,819,000 mN
6,818,000 mN
383,000 mE
384,000 mE
385,000 mE
386,000 mE
N
West Zone
North Zone
South Zone
Soil Sample
Percentiles for: Ag_ppb
14 =< 128 [<30%]
128 =< 334 [30<60%]
334 =< 706 [60<80%]
706 =< 1159 [80<90%]
1159 =< 1665 [90<95%]
1665 =< 2871 [95<98%]
2871 =< 3805 [98<99%]
3805 =< 14152 [99% +]
Rock Sample
Percentiles for: Ag_ppm
0.3 =< 0.3 [<30%]
0.3 =< 0.3 [30<60%]
0.3 =< 0.6 [60<80%]
1 =< 1.7 [90<95%]
1.7 =< 68.3 [95<98%]
68 to 100
Stream Sediment Sample
Percentiles for: Ag_ppb
64 =< 191 [<30%]
191 =< 381 [30<60%]
381 =< 566 [60<80%]
566 =< 1435 [80<90%]
1435 =< 2228 [90<95%]
2228 =< 5667 [95<98%]
5667 =< 5667 [98<99%]
5667 =< 5667 [99% +]
VOYAGER GOLD CORP.
Vancouver, BC
Rivier Property
SILVER GEOCHEMISTRY
Yukon Territory, Canada
Date: Dec. 9, 2013
Author: RAD
Drawn By: RH
NTS: 105G
Scale: 1:20,000
Figure: 7



VOYAGER GOLD CORP.

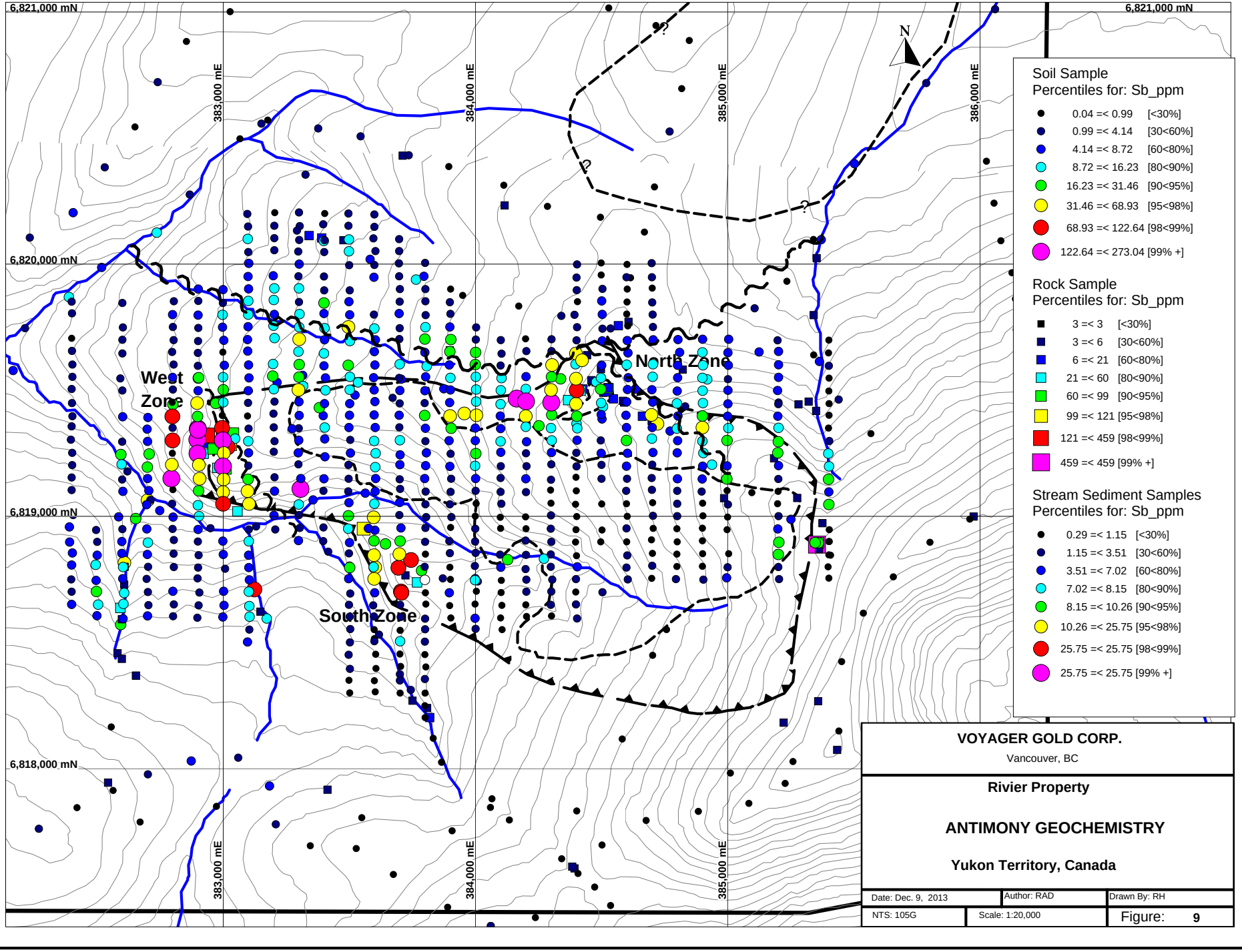
Vancouver, BC

Rivier Property

ARSENIC GEOCHEMISTRY

Yukon Territory, Canada

Date: Dec. 9, 2013	Author: RAD	Drawn By: RH
NTS: 105G	Scale: 1:20,000	Figure: **8**


6,821,000 mN
6,820,000 mN
6,819,000 mN
6,818,000 mN
383,000 mE
384,000 mE
385,000 mE
386,000 mE
N
West Zone
North Zone
South Zone
Soil Sample
Percentiles for: Sb_ppm
0.04 =< 0.99 [<30%]
0.99 =< 4.14 [30<60%]
4.14 =< 8.72 [60<80%]
8.72 =< 16.23 [80<90%]
16.23 =< 31.46 [90<95%]
31.46 =< 68.93 [95<98%]
68.93 =< 122.64 [98<99%]
122.64 =< 273.04 [99% +]
Rock Sample
Percentiles for: Sb_ppm
3 =< 3 [<30%]
3 =< 6 [30<60%]
6 =< 21 [60<80%]
21 =< 60 [80<90%]
60 =< 99 [90<95%]
99 =< 121 [95<98%]
121 =< 459 [98<99%]
459 =< 459 [99% +]
Stream Sediment Samples
Percentiles for: Sb_ppm
0.29 =< 1.15 [<30%]
1.15 =< 3.51 [30<60%]
3.51 =< 7.02 [60<80%]
7.02 =< 8.15 [80<90%]
8.15 =< 10.26 [90<95%]
10.26 =< 25.75 [95<98%]
25.75 =< 25.75 [98<99%]
25.75 =< 25.75 [99% +]
VOYAGER GOLD CORP.
Vancouver, BC
Rivier Property
ANTIMONY GEOCHEMISTRY
Yukon Territory, Canada
Date: Dec. 9, 2013
Author: RAD
Drawn By: RH
NTS: 105G
Scale: 1:20,000
Figure: 9

10.0 CONCLUSIONS, AND RECOMMENDATIONS

The Rivier Property is a gold-quartz vein lode-gold type prospect within a listwanite alteration system. Anomalous gold geochemical values occur around an associated serpentinized and subsequently carbonatized ultramafic body. The listwanite alteration coincides with the shallow dipping thrust fault that juxtaposes the block of Slide Mountain Terrane over the rocks of the Yukon Tanana Terrane. The lithology and tectonic environment is favourable for the development of gold deposits, and a series of structural conduits as well as faulting at the base of the unconformity represent the possibility of structural controls for a deposit. The favourable location for development of the gold quartz veins is within or adjacent to second or third order structures related to the regional Tintina Fault system.

The carbonization of serpentine into listwanite consumes magnetite (Hansen, 2005). Therefore the magnetic data can be correlated with geochemical results to help delineate the ultramafic body into a unit of serpentinite and a separate unit of listwanite. Geochemical values for nickel and chromium are elevated within the magnetic high, which represents the serpentine fraction of the ultramafic body. Gold values over both the serpentine and listwanite are not considered significant and anomalous zones A continuation of the magnetic low to the northeast beyond where the ultramafic unit is present at surface may indicate extension of the listwanite body underneath the schistose unit.

Geochemical results have yielded anomalous gold-silver-antimony-arsenic-nickel within the Rivier Property boundary. The suite of metals is typical of gold with pathfinder elements in listwanite settings. Figure 5 shows a compilation of geology, magnetics and gold geochemistry exploration results to date and the locations of the North, South and West anomalies.

Elevated values for gold-silver-arsenic are associated with magnetic lows at the flanks of the magnetic high. Three anomalous zones have been identified, currently called North Zone, South Zone and West Zone, within which gold values above 2,000 ppb have been obtained. The Rivier Property represents an excellent early-stage gold prospect on which further exploration is warranted.

The following work is recommended:

Detailed geological mapping at a scale of 1:2000 or better in prospective areas. Further subdivide the listwanite unit into differing alteration assemblages based on mineralogy and by identifying alteration fluid fronts.

Investigate and map the physical properties of subsurface rocks with geophysics to identify any structures and alteration zones favorable for hosting gold mineralization. Electrical methods such as Horizontal Loop Electromagnetics (HLEM) and induced polarization (IP) need to be considered.

It is suggested that the Geoprobe tool developed and tested by GroundTruth Exploration be considered to further explore the flanks of the listwanitized ultramafic. This is estimated to cost in the range of $50-70 thousand all in cost.

11.0 YMIP 2013-012 EXPENDITURES

Voyager Resources Corp.

CONTRIBUTION AGREEMENT 2013-102 2013-012

Direct property exploration costs

Vertical Air Ltd.	Helicopter, Geol and Assistant	$18,803.02
Rackla Metals Inc	Mapinfo Figures	$78.65
Kel Sax	Geologist	$2,520.00
Acme Labs	Analytical costs	$5,462.12
Aurum Geological	Geologist ,Field work, report	$5,040.00
Total		**$31,903.79**

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CERTIFICATE

To Accompany the Report titled "A TECHNICAL REVIEW OF THE RIVIER PROPERTY WATSON LAKE MINING DISTRICT, YUKON TERRITORY"

for Voyager Gold Corp dated January ** 15, 2013

I, R. Allan Doherty, hereby certify that:

1. I reside at 106A Granite Road, Whitehorse, Yukon, Y1A 2V9.

2. I am a graduate of the University of New Brunswick, with a B.Sc. Degree in Geology (Honours, 1977). I have been involved in geological mapping and mineral exploration primarily in the Yukon continuously since 1980.

3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, Registration No. 20564, and have been registered as a Professional Geologist since 1993.

4. I am the owner of Aurum Geological Consultants Inc. a firm of consulting geologists and I am authorized to practice professional geology by The Association of Professional Engineers and Geoscientists of British Columbia.

5. I am a "Qualified Person" as defined in Sec 1.2 of National Instrument 43-101.

6. I am independent of the Issuer, and I am the author of this report on the Rivier Property, The report is based on exploration programs completed by Voyager Gold Corp in 2010, 2011 and 2012 and on property work supervised by the author September 7-10, 2013.

7. I am not aware of any material fact or material change with respect to the subject matter of this technical report, which is not reflected in the technical report; where such omission to disclose makes the technical report misleading.

8. I have had direct involvement with the exploration programs conducted on the areas discussed in this report under contract to Voyager Gold Corp in September 2013.

9. Neither I, nor any affiliated entity of mine, is at present, under an agreement, arrangement or understanding or expects to become, an insider, associate, affiliated entity or employee of Voyager Gold Corp., or any associated or affiliated entities.

10. Neither I, nor any affiliated entity of mine own, directly or indirectly, nor expect to receive, any interest in the properties or securities that may be issued by Voyager Gold Corp, or any associated or affiliated companies.

11. Neither I, nor any affiliated entity of mine, have earned the majority of our income during the preceding three years from the current Claim holders or any associated or affiliated companies.

12. I have read NI 43-101 and Form 43-101F1 and have prepared the technical report on the Rivier property in compliance with NI 43-101 and Form 43-101F1; and in conformity with generally accepted Canadian mining industry practice, and as of the date of the certificate, to the best of my knowledge, information and belief, the technical report contains all scientific and technical information that is required to be disclosed to make the technical report not misleading.

R. Allan Doherty, P.Geo.
January 15, 2014

RIVIER PROJECT NTS 105G-06, 11
2013 rock samples NAD 83 Zone 9 V
Acme WHI1300409

SAMPLE #	EAST	NORTH	ELV	Type	
582470	383027	6819286	1527	OC Grab	Orange listwanite with qtz veins, brecciated, trace Py, no calcite (on old trench)
582471	383014	6819282	1528	OC Grab	Quartz vein in listwanite, diss Py <0.05%
582472	382976	6819192	1527	OC Grab	Massive Listwanite with some quartz-FeCarb veins
582473	390594	6818274	1450	OC Grab	Quartz-cal vein in dark phyllite
582474	390595	6818275	1450	OC Grab	Quartz vein with minr pyritein black-grey argillite phyllite (old trench est side of property off claims)
582475	390428	6818209	1482	OC Grab	Vuggy quatz-vein from long trench in black argillite-phyllite on extreme east side of claims (off claims)
582476	385352	6820024	1599	OC	black fissile shale/argillite, carbonaceous shale, vfg. Pyrite, no qtz veins
582477	385340	6819798	1635	OC	qtz sweat boulder in creek. Perfect euhedral qtz crystals to 4mm in vugs. Rusty in pockets, otherwise white to cream. Just above 1299022.
582478	385350	6819418	1712	OC	Black graphytic phyllite with quartz veins pods (Melange?) High graphite content Py to 2%. Slickenside and pyrite FEOx coated slip surfaces. Nurley quarts rusty Photos
582479	385280	6819444	1724	OC	Black phyllitic shale, Pyrite casts to >1cm, crenulated, some cery hard round to oblong carbonate cemented concretions.
582480	385320	6819455	1731	Float	Quartz vein, bull white qtz with minor MnO lined vugs.
582481	384821	6819582	1704	Float	Quartz vein float, crystalline saccaroidal Qtz, some greyish areas, no Sx
582482	384497	6819584	1728	OC	Quartz and MG carbonate veinets with net textures typical of listwanite. Very little Sx
582483	385974	6818999	1988	OC	Quartz vein in listwanite
582484		6818888	1869	OC	White Quartz vein, listwanite
582485	385375	6818973	1870	OC	?? Qtz vein
582486	384401	6819500	1747	OC	Samples of Quartz vein bx, with limonite stain on fractures from above (1299505, 2625ppb Au)
582487	384402	6819501	1746	OC	Quartz vein with green mica Mariposite. Fractured, fg. Highly silicified
582488	384402	6819501	1746	OC	Listwanite
582489	384402	6819501	1746	OC	listwanite
582490	383898	6819658	1614	float	Possible intrusive, quartz rich with K'spar crystals to 2 x 3 mm.
582491	383722	6818766	1550	OC	Qtz vein in listwanite
582492	385559	6818041	1918	OC	
582493	385433	6818074	1992	Float	Rusty weathering Qtz-Bio schist, fg pyrite
582494	385358	6818267	1931	float	Quartz-Magnesite-Dol-veins in Listwanite by bear dig. Photos 1961-1964.
582495	384985	6819072	1798	Float	Green well slickensided serpentinite. Collected from gopher burrough. Probably den in friable faulted serpentinite.
1348601	382609	6818800	1433	Float	vuggy qtz sweat boulder in creek. Perfect euhedral qtz crystals to 4mm in vugs. Rusty in pockets, otherwise white to cream. Just above 1299022.
1348603	382598	6818592	1482	float	white qtz vein boulder with clots and streaks rust, minor distinct py pits to 1mm. East side of creek.
1348604	382592	6818637	1468	OC	from otcp KS-1 talus. 4mm cross cut qtz vein barren, qtz stringers with 20% py pits along foliation.
1348605	382592	6818637	1468	OC	3cm qtz vein/sweat, approx 30% rust py pits and streaks.
1348606	382607	6818729	1454	OC	dark grey phyllite, dominant foliation 286-80 to 90, perpendicular to bedding or previous foliation. Otcp-KS-2
1348607	382581	6818457	1537	Float	top of creek: several orange to rusty boulders listwanite with prominent white qtz vein swarms with stringers very fine gr py and aspy.
1348610	383750	6818269	1519	Float	white qtz boulder in creek, rusty patches and streaks to 20%, local breccia and minor carbonate.
1348611	383808	6818240	1530	Float	white qtz boulder in talus slope east of creek. Rusty streaks, laminations and clots
1348612	383818	6818202	1531	Float	orange to rusty weathering, white to pale grey, weakly laminated quartzite(?), lens pale orange carbonate rosettes.
1348613		6818435	1546	Float	listwanite with faint fuschite
1348614	384606	6819771	1700	subcrop	rock grab, qtz vein in finely laminated schist striking east dipping moderately south. Vein rubble also striking east. White qtz to 40cm wide, locally rusty with minor vugs.
Total 41					
OtcpKS-1	382593	6818639	1471		dull dark grey weathering, black fine grained graphitic phyllite, dominant foliation 290-20, lineation 106-14. small cliffs west side of creek
OtcpKS-2	382607	6818729	1454		dark grey phyllite, dominant foliation 286-80 to 90, perpendicular to bedding or previous foliation. Otcp in creek bed.

RIVIER PROJECT NTS 105G-06, 11

NAD 83 Zone 9 V

SAMPLE #	Type	EAST	NORTH	ELV	ppb AU	SLOPE	PHYSIO
KS-1	Soil	362400	6818600	1533		NE mod	subalpine
KS-2	Soil	382399	6818651	1518		NE mod	subalpine
KS-3	Soil	382399	6818701	1510		NE mod	subalpine
KS-4	Soil	382397	6818750	1503		NE mod	treeline
KS-5	Soil	382399	6818807	1494		NE mod	spruce and buckbr
KS-6	Soil	382402	6818855	1486		NE mod	spruce and buckbr
KS-7	Soil	382391	6818898	1482		NE mod	spruce and buckbr
KS-8	Soil	382390	6818958	1471		NE mod	spruce and buckbr
KS-9	Soil	382496	6818946	1466		NE mod	spruce and buckbr
KS-10	Soil	382500	6818899	1465		NE mod	spruce and buckbr
KS-11	Soil	382500	6818846	1467		NE mod	spruce and buckbr
KS-12	Soil	382494	6818808	1471		NE mod	spruce and buckbr
KS-13	Soil	382496	6818746	1482		NE mod	treeline
KS-14	Soil	382497	6818702	1495		NE mod	subalpine
KS-15	Soil	382504	6818650	1506		NE mod	subalpine
KS-16	Soil	382499	6818606	1519	173.5	NE mod	subalpine
KS-17	Soil	382603	6818594	1491		NW steep	subalpine
KS-18	Soil	382604	6818653	1468		NW steep	treeline
KS-19	Soil	382607	6818696	1459		NE mod	spruce and buckbr
KS-20	Soil	382601	6818753	1448		E steep	spruce and buckbr
KS-21	Soil	382603	6818799	1437		E steep	spruce and buckbr
KS-22	Soil	382598	6818853	1427		E steep	spruce and buckbr
KS-23	Soil	382598	6818900	1416		E mod	spruce and buckbr
KS-24	Soil	382600	6818949	1414		E mod	spruce and buckbr
KS-25	Soil	384402	6819750	1701		N gentle	alpine
KS-26	Soil	384392	6819799	1692		NW gentle	alpine
KS-27	Soil	384404	6819851	1687		NW gentle	alpine
KS-28	Soil	384401	6819897	1680		NW gentle	alpine
KS-29	Soil	384400	6819947	1674		W gentle	alpine
KS-30	Soil	384402	6819999	1672		NW gentle	alpine
KS-31	Soil	384498	6820005	1679		NW gentle	alpine
KS-32	Soil	384498	6819957	1682		NW gentle	alpine
KS-33	Soil	384503	6819902	1690		NW gentle	alpine
KS-34	Soil	384500	6819854	1692		NW gentle	alpine
KS-35	Soil	384502	6819801	1696		NW gentle	alpine
KS-36	Soil	384503	6819744	1703		NW gentle	alpine
KS-37	Soil	384603	6819755	1705		NW gentle	alpine
KS-38	Soil	384599	6819802	1705		NW gentle	alpine
KS-39	Soil	384600	6819850	1698		flat	alpine
KS-40	Soil	384601	6819901	1696		flat	alpine
KS-41	Soil	384598	6819948	1695		flat	alpine
KS-42	Soil	384600	6819999	1696		flat	alpine
KS-43	Soil	384698	6820004	1688		E gentle	alpine
KS-44	Soil	384699	6819948	1690		E gentle	subalpine

KS-45	Soil	384700	6819905	1693		E gentle	subalpine
KS-46	Soil	384700	6819848	1691		E gentle	subalpine
KS-47	Soil	384702	6819800	1692		NE gentle	subalpine
KS-48	Soil	384703	6819751	1696		NE gentle	subalpine
Sv1	Soil	382700	6818605	1508		NE mod	
SV2	Soil	382703	6818648	1491		NE mod	
SV3	Soil	382701	6818700	1475		NE mod	
SV4	Soil	382696	6818752	1469		NE mod	
SV5	Soil	382702	6818800	1458		NE mod	
SV6	Soil	382699	6818849	1441		NE mod	
SV7	Soil	382701	6818896	1425		NE mod	
SV8	Soil	382804	6818906	1414		NE mod	
SV9	Soil	382803	6818852	1424		NE mod	
SV10	Soil	382804	6818799	1441		NE mod	
SV11	Soil	382798	681875	1467		NE mod	
SV12	Soil	382800	6818703	1487		NE mod	
SV13	Soil	382804	6818651	1499		NE mod	
SV14	Soil	382801	6818604	1505	171.9	NE mod	
SV15	Soil	382897	6818598	1514		NE mod	
SV16	Soil	382902	6818647	1502		NE mod	
SV17	Soil	382905	6818698	1481		NE mod	
SV18	Soil	382898	6818754	1460		NE mod	
SV19	Soil	382900	6818797	1440		NE mod	
SV20	Soil	382902	6818846	1425		NE mod	
SV21	Soil	382899	6818900	1410		NE mod	
SV22	Soil	382998	6818902	1411		NE mod	
SV23	Soil	383000	6818849	1421		NE mod	
SV24	Soil	383007	6818792	1416		NE mod	
SV25	Soil	383998	6818747	1449		NE mod	
SV26	Soil	383001	6818703	1465		NE mod	
SV27	Soil	383003	6818647	1480		NE mod	
SV28	Soil	382998	6818601	1501		NE mod	
SV29	Soil	382697	6818950	1412			
SV30	Soil	382799	6818950	1404			
SV31	Soil	382801	6818997	1395			
SV32	Soil	32894	6818997	1405			
SV33	Soil	382900	6818948	1398			
SV34	Soil	382949	6818953	1405			
SV35	Soil	383101	6818948	1414			
SV36	Soil	383101	6818901	1424	176.5		
SV37	Soil	383100	6818846	1435			
SV38	Soil	383101	6818797	1450			
SV39	Soil	383103	6818748	1469			
SV40	Soil	383101	6818701	1484	162.5		
SV41	Soil	383103	6818644	1505	170.9		
SV42	Soil	383104	6818602	1512			
SV43	Soil	383103	6818551	1523			

SV44	Soil	383096	6818502	1532			
SV45	Soil	383501	6818300	1542			
SV46	Soil	383498	6818350	1534			
SV47	Soil	383502	6818395	1523			
SV48	Soil	383497	6818451	1514			
SV49	Soil	383502	6818500	1504			
SV50	Soil	383503	6818553	1494			
SV51	Soil	383501	6818602	1489			
SV52	Soil	383498	6818649	1485			
SV53	Soil	383503	6818694	1475	571.8		
SV54	Soil	383497	6818753	1461			
SV55	Soil	383501	6818797	1445			
SV56	Soil	383596	6818799	1476			
SV57	Soil	383598	6818752	1480			
SV58	Soil	383600	6818697	1469			
SV59	Soil	383594	6818647	1468			
SV60	Soil	383597	6818603	1472			
SV61	Soil	383598	6818551	1476			
SV62	Soil	383599	6818505	1487			
SV63	Soil	383604	6818453	1498			
SV64	Soil	383605	6818397	1513			
SV65	Soil	383599	6818348	1523			
SV66	Soil	383602	6818304	1534			
SV 67	Soil	383701	6818649	1510			
SV68	Soil	383703	6818601	1506			
SV69	Soil	383701	6818548	1515			
SV70	Soil	383701	6818505	1515	1107.3		
SV71	Soil	383700	6818454	1506			
SV72	Soil	383703	6818405	1504			
SV73	Soil	383700	6818349	1509			
SV74	Soil	383701	6818299	1519			
SV75	Soil	383800	6818202	1530			
SV76	Soil	383799	6818249	1529			
SV77	Soil	383800	6818299	1542			
SV78	Soil	383799	6818355	1550			
SV79	Soil	383803	6818403	1547			
SV80	Soil	383799	6818452	1539			
SV81	Soil	383799	6818503	1550			
SV82	Soil	383800	6818552	1542			
SV83	Soil	383800	6818594	1535			
SV84	Soil	382696	6819046	1386			
SV85	Soil	382705	6819102	1381			
SV86	Soil	382700	6819150	1379			
SV87	Soil	382699	6819195	1389	256.9		
SV88	Soil	382706	6819247	1398			
SV89	Soil	382700	6819297	1404			
SV90	Soil	382698	6819346	1407			

SV91	Soil	382701	6819392	1425			
1348602	Silt	382593	6818571	1494	400.0	stream sed	
1348608	Silt	383599	6818515	1484	3.6	stream sed	
1348609	Silt	383700	6818374	1503	10.1	stream sed	
1348615	Silt	383123	6818710	1473	356.3	stream sed	
1348616	Silt	383172	6818595	1507	100.6	stream sed	
SV92	Silt	382700	6819064	1373	22.5	stream sed	
SV93	Silt	382711	6819065	1375	9.7	stream sed	
SV94	Silt	382711	6819065	1396	7.9	stream sed	

DEPTH cm	HORIZ	COLOUR	GRADE	NOTES
10	B	light brown	silt-clay	micro-gully bench, dark grey schist boulders
10	B/C	light brown	clay	solifluction pan with schist cobbles
20	B/C	light brown	silt-clay	below distinct 5cm ash layer
20	B	light brown	silt-clay	below distinct 5cm ash layer
15	B	light brown	silt-cobbles	schist cobbles
15	B	light brown	silt-cobbles	schist cobbles
15	B	light brown	silt-cobbles	schist cobbles
20	B	light brown	silt-cobbles	schist cobbles
20	B	dark gray	clay-cobbles	schist cobbles
20	B	dark gray	clay-cobbles	schist cobbles
20	B	dark gray	clay-cobbles	schist cobbles
20	B	dark gray	clay-cobbles	schist cobbles
25	B	light brown	silt-cobbles	schist cobbles
20	C	dark blue grey	clay-gravel	schist cobbles
15	B	light brown	clay-cobbles	schist cobbles
15	B	light brown	clay-cobbles	schist cobbles
20	B/C	dark brown	clay-cobbles	schist cobbles in solipan, E bank NNE creek
25	B	dark brown	clay-cobbles	schist cobbles in solipan, E bank NNE creek
15	fluvial	brown	silt-sand	next to dark blue grey subcrop schist
20	B/C	dark blue grey	clay-cobbles	W bank creek
20	B/C	dark brown grey	clay-cobbles	W bank creek
25	B/C	grey brown	clay-cobbles	W bank creek
20	B/C	brown black	clay-cobbles	W bank creek
25	B/C	blue black	clay-cobbles	W bank creek
25	B	brown black	silt-cobbles	graphitic phyllite frags
15	B	brown black	silt-cobbles	graphitic phyllite frags
10	B	buff	clay-cobbles	graphitic phyllite frags
15	B	buff	silt-cobbles	muscovite rich phyllite, solipan
15	B	green grey	clay-gravel	chlorite schist, solipan
25	B	green brown	clay-sand	buckbrush swale
15	B	light green brown	clay-silt	solifluction pan
15	B	buff grey	clay-sand	solifluction pan
20	B	light brown	silt-cobbles	solifluction pan
20	B	buff grey	clay-cobbles	
15	B	light brown	clay-cobbles	solifluction pan
15	B	grey black	clay-gravel	graphitic phyllite frags
15	C	light brown	clay-silt	schist otcps
20	C	dark brown grey	silt-cobbles	rubblecrop graphitic schist
20	B	light brown grey	clay-cobbles	
10	B	grey brown	clay-gravel	solifluction pan
15	B	light yellow grey	clay-gravel	
15	B	light brown	clay-gravel	solifluction pan
20	B	yellow brown	clay-cobbles	
15	B	light brown	clay-sand	

20	B	light brown	clay-cobbles	
15	B	light brown	clay-gravel	solifluction pan
15	B	light brown	clay-cobbles	
20	B	yellow brown	clay	solifluction pan
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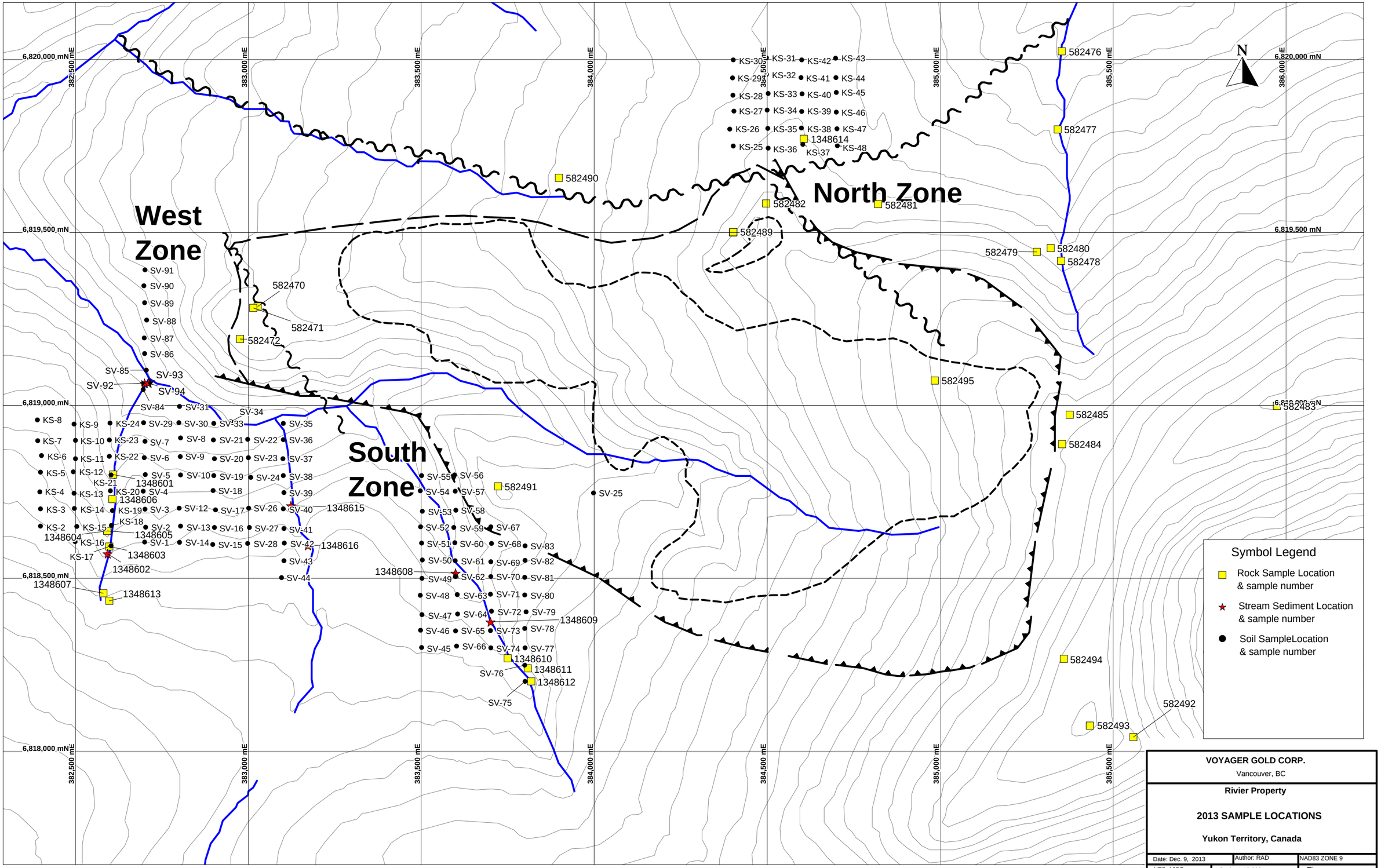
40		dark gray		
35		Light Brown		
45		Light Brown		

45		Light Brown		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West Zone
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Symbol Legend
Rock Sample Location & sample number
Stream Sediment Location & sample number
Soil SampleLocation & sample number
VOYAGER GOLD CORP.
Vancouver, BC
Rivier Property
2013 SAMPLE LOCATIONS
Yukon Territory, Canada
Date: Dec. 9, 2013
Author: RAD
NAD83 ZONE 9
NTS: 105G
Scale: 1:10,000
Figure:

APPENDIX B

RIVIER PROJECT

2013 ANALYTICAL CERTIFICATES

CERTIFICATE	NUMBER	DATE
WH113000409.1	37 ROCK	SEPT 13, 2013
WH113000410.1	142 SOIL, 8 SILT	SEPT 24, 2013
WH113000430.1	3 SOIL	SEPT 13, 2013

Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

www.acmelab.com

Client: **Aurum Geological Consultants Inc.**
106A Granite Road
Whitehorse YT Y1A 2V9 CANADA

Submitted By: Al Doherty
Receiving Lab: Canada-Whitehorse
Received: September 13, 2013
Report Date: September 26, 2013
Page: 1 of 3

CERTIFICATE OF ANALYSIS WHI13000409.1

CLIENT JOB INFORMATION

Project: RIVIER
Shipment ID: 13-1.2
P.O. Number
Number of Samples: 37

SAMPLE DISPOSAL

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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	37	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B01	37	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1D01	37	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Voyager Gold Corp.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
RAYMOND CHAN
CHIEF ASSAYER

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

Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

www.acmelab.com

Client: **Aurum Geological Consultants Inc.**
106A Granite Road
Whitehorse YT Y1A 2V9 CANADA

Project: RIVIER
Report Date: September 26, 2013

CERTIFICATE OF ANALYSIS WHI13000409.1

	Method	WGHT	3B	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001
582470	Rock	1.73	13	<1	11	<3	9	0.4	1391	66	416	3.41	659	<2	7	<0.5	99	<3	17	0.13	<0.001
582471	Rock	1.77	11	<1	6	<3	<1	<0.3	1282	48	399	2.83	553	<2	5	<0.5	118	<3	10	0.20	0.002
582472	Rock	1.16	30	<1	9	<3	<1	<0.3	1038	42	430	2.64	322	<2	47	<0.5	23	<3	9	0.66	0.001
582473	Rock	1.45	<2	<1	2	5	4	<0.3	6	<1	791	0.51	3	<2	570	0.5	<3	<3	<1	11.01	<0.001
582474	Rock	1.64	4	<1	16	<3	19	<0.3	6	1	122	0.68	26	<2	<1	<0.5	<3	<3	<1	0.01	0.003
582475	Rock	1.12	<2	<1	11	13	43	<0.3	5	2	266	0.42	6	<2	<1	<0.5	<3	<3	15	0.02	0.013
582476	Rock	0.87	3	<1	6	26	34	<0.3	15	4	914	1.89	14	<2	82	<0.5	<3	<3	3	4.23	0.014
582477	Rock	1.20	<2	<1	7	<3	48	<0.3	8	5	276	1.65	<2	12	92	<0.5	<3	<3	3	2.62	0.060
582478	Rock	2.27	11	18	100	34	105	0.9	27	3	36	2.89	109	2	29	<0.5	<3	<3	42	0.18	0.265
582479	Rock	1.11	3	2	111	5	144	0.4	37	9	129	6.76	15	<2	15	<0.5	<3	<3	70	0.21	0.186
582480	Rock	1.22	<2	<1	5	13	16	<0.3	7	1	202	0.37	17	6	3	<0.5	<3	<3	<1	0.04	0.009
582481	Rock	1.29	<2	<1	6	<3	11	<0.3	6	<1	150	0.86	7	<2	9	<0.5	<3	<3	16	0.12	0.002
582482	Rock	1.95	<2	<1	3	<3	<1	<0.3	932	14	73	0.80	4	<2	140	<0.5	<3	<3	6	6.93	<0.001
582483	Rock	1.24	<2	<1	3	5	3	<0.3	5	<1	451	0.45	<2	<2	146	<0.5	<3	<3	<1	5.31	0.058
582484	Rock	1.67	112	<1	308	65	113	>100	16	<1	63	0.53	596	<2	19	2.4	459	<3	<1	0.35	<0.001
582485	Rock	1.93	3	<1	2	<3	1	0.5	75	2	90	0.40	16	<2	213	<0.5	4	<3	2	5.50	<0.001
582486	Rock	0.71	10	<1	10	<3	13	0.9	13	4	837	1.56	313	<2	124	<0.5	5	<3	4	2.40	0.024
582487	Rock	1.13	8	<1	33	<3	8	0.4	1114	52	567	3.79	224	<2	37	<0.5	21	<3	16	0.87	<0.001
582488	Rock	1.40	5	<1	20	<3	<1	<0.3	862	35	616	3.13	146	<2	140	<0.5	19	<3	15	3.10	<0.001
582489	Rock	1.27	3	<1	16	28	6	0.3	10	2	653	0.72	44	<2	34	<0.5	<3	<3	1	1.24	0.007
582490	Rock	1.41	2	<1	117	<3	62	<0.3	1058	101	899	6.73	180	<2	114	<0.5	4	<3	83	2.06	0.026
582491	Rock	1.28	4	<1	6	<3	4	<0.3	1192	54	999	2.84	117	<2	13	<0.5	<3	<3	11	0.11	<0.001
582492	Rock	1.54	<2	<1	3	13	38	<0.3	6	8	2535	2.76	9	<2	500	1.1	<3	<3	56	13.89	0.083
582493	Rock	1.31	<2	2	1	8	134	<0.3	6	30	1266	7.85	5	<2	148	<0.5	<3	<3	139	4.07	0.227
582494	Rock	1.32	2	<1	3	19	17	<0.3	4	4	749	1.41	6	<2	584	<0.5	<3	<3	11	11.21	0.019
582495	Rock	1.86	<2	<1	8	<3	<1	<0.3	2511	117	737	6.24	<2	<2	<1	<0.5	<3	<3	31	0.04	0.002
1348601	Rock	0.79	<2	<1	3	<3	34	<0.3	11	2	197	0.62	4	<2	1	<0.5	<3	<3	<1	0.08	0.002
1348603	Rock	0.60	<2	<1	7	<3	6	<0.3	12	<1	96	0.50	9	<2	1	<0.5	<3	<3	<1	0.04	0.007
1348604	Rock	0.58	10	4	22	16	66	1.0	9	<1	30	1.40	64	3	171	<0.5	10	<3	41	1.95	1.148
1348605	Rock	0.45	16	9	41	22	14	16.2	3	<1	37	1.16	78	<2	27	<0.5	44	<3	19	0.08	0.182

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Project: RIVIER
Report Date: September 26, 2013

CERTIFICATE OF ANALYSIS WHI13000409.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
582470	Rock	1	421	15.50	44	<0.001	<20	0.04	<0.01	0.02	<2	0.41	<1	<5	<5	9
582471	Rock	1	247	12.39	28	<0.001	<20	0.03	<0.01	0.02	<2	0.09	<1	<5	<5	<5
582472	Rock	1	231	12.19	43	<0.001	<20	0.03	<0.01	0.02	<2	0.12	<1	<5	<5	<5
582473	Rock	4	4	0.13	10	<0.001	<20	0.07	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
582474	Rock	<1	9	0.04	23	<0.001	<20	0.03	<0.01	0.02	<2	<0.05	<1	<5	<5	<5
582475	Rock	<1	6	0.01	23	<0.001	<20	0.03	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
582476	Rock	2	6	0.68	57	<0.001	<20	0.10	<0.01	0.04	<2	0.13	<1	<5	<5	<5
582477	Rock	34	3	0.09	189	<0.001	<20	0.34	<0.01	0.28	<2	0.15	<1	<5	<5	<5
582478	Rock	8	9	0.03	854	<0.001	<20	0.25	<0.01	0.13	<2	0.09	<1	<5	<5	<5
582479	Rock	8	54	1.30	142	0.003	<20	2.42	<0.01	0.11	<2	0.27	<1	<5	9	<5
582480	Rock	9	9	0.03	94	0.001	<20	0.09	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
582481	Rock	1	11	0.28	29	0.001	<20	0.28	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
582482	Rock	1	41	21.46	13	<0.001	<20	0.02	<0.01	<0.01	5	<0.05	<1	<5	<5	<5
582483	Rock	<1	5	0.06	7	<0.001	<20	0.03	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
582484	Rock	<1	7	0.36	19	<0.001	<20	0.02	<0.01	0.01	<2	<0.05	<1	<5	<5	<5
582485	Rock	2	3	24.84	12	<0.001	<20	0.01	<0.01	<0.01	6	<0.05	<1	<5	<5	<5
582486	Rock	1	4	0.96	67	<0.001	<20	0.09	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
582487	Rock	1	315	17.36	19	<0.001	<20	0.03	<0.01	0.02	<2	0.12	<1	<5	<5	7
582488	Rock	2	267	14.23	43	<0.001	<20	0.07	<0.01	0.02	<2	0.06	<1	<5	<5	<5
582489	Rock	<1	6	0.56	36	<0.001	<20	0.03	<0.01	0.02	<2	<0.05	<1	<5	<5	<5
582490	Rock	3	987	8.98	31	0.004	<20	2.15	<0.01	0.02	<2	<0.05	<1	<5	9	13
582491	Rock	1	565	17.77	59	<0.001	<20	0.06	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
582492	Rock	8	6	0.62	25	0.004	<20	0.98	<0.01	0.02	<2	<0.05	<1	<5	7	12
582493	Rock	21	7	1.15	237	0.402	<20	2.76	<0.01	2.38	<2	<0.05	<1	<5	5	10
582494	Rock	2	4	0.33	21	0.008	<20	0.35	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
582495	Rock	2	1893	22.64	3	0.004	31	0.42	<0.01	<0.01	<2	<0.05	<1	<5	<5	6
1348601	Rock	<1	8	0.05	15	<0.001	<20	0.02	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1348603	Rock	<1	6	0.02	10	<0.001	<20	0.03	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1348604	Rock	4	11	0.03	100	0.001	<20	0.46	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
1348605	Rock	3	5	0.02	39	<0.001	<20	0.16	<0.01	0.06	<2	<0.05	<1	<5	<5	<5

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Project: RIVIER
Report Date: September 26, 2013

CERTIFICATE OF ANALYSIS WHI13000409.1

	Method	WGHT	3B	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001
1348606	Rock	1.14	<2	<1	40	9	139	0.3	50	15	466	4.09	86	7	48	0.7	<3	<3	3	1.48	0.046
1348607	Rock	2.20	9	<1	13	8	74	<0.3	171	36	1568	6.02	408	<2	732	<0.5	<3	<3	8	9.76	0.184
1348610	Rock	0.74	<2	<1	1	6	<1	<0.3	1	<1	1515	1.11	<2	<2	180	<0.5	<3	<3	<1	11.54	<0.001
1348611	Rock	0.80	2	<1	2	<3	5	<0.3	4	1	205	0.65	13	<2	9	<0.5	<3	<3	<1	0.91	0.010
1348612	Rock	1.34	23	<1	140	8	121	0.7	2316	403	1625	9.49	1534	<2	198	0.5	6	<3	7	8.00	0.125
1348613	Rock	1.37	25	<1	2	19	36	<0.3	119	26	1651	5.25	300	<2	472	0.6	<3	<3	6	8.25	0.237
1348614	Rock	1.65	<2	<1	4	8	11	<0.3	7	3	248	1.02	5	<2	24	<0.5	<3	<3	8	0.50	0.192

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Project: RIVIER
Report Date: September 26, 2013

CERTIFICATE OF ANALYSIS WHI13000409.1

		Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1348606	Rock		18	6	0.73	95	<0.001	<20	0.34	0.02	0.21	<2	<0.05	<1	<5	<5	<5
1348607	Rock		6	61	4.04	83	0.001	<20	0.23	<0.01	0.14	<2	0.22	<1	<5	<5	16
1348610	Rock		3	3	0.58	29	<0.001	<20	0.02	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1348611	Rock		<1	6	0.05	11	<0.001	<20	0.02	<0.01	0.01	<2	<0.05	<1	<5	<5	<5
1348612	Rock		3	44	3.55	83	0.003	<20	0.33	<0.01	0.21	<2	0.15	<1	<5	<5	<5
1348613	Rock		4	26	2.75	80	0.002	<20	0.19	<0.01	0.12	<2	0.23	<1	<5	<5	14
1348614	Rock		1	9	0.02	52	0.003	<20	0.10	<0.01	0.07	<2	<0.05	<1	<5	<5	<5

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Project: RIVIER
Report Date: September 26, 2013

QUALITY CONTROL REPORT WHI13000409.1

		Method	WGHT	3B	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
		Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001
Pulp Duplicates																						
582475	Rock		1.12	<2	<1	11	13	43	<0.3	5	2	266	0.42	6	<2	<1	<0.5	<3	<3	15	0.02	0.013
REP 582475	QC			<2																		
582476	Rock		0.87	3	<1	6	26	34	<0.3	15	4	914	1.89	14	<2	82	<0.5	<3	<3	3	4.23	0.014
REP 582476	QC				<1	6	29	34	<0.3	16	4	928	1.92	14	<2	83	<0.5	<3	<3	3	4.24	0.015
1348614	Rock		1.65	<2	<1	4	8	11	<0.3	7	3	248	1.02	5	<2	24	<0.5	<3	<3	8	0.50	0.192
REP 1348614	QC			<2	<1	4	7	10	<0.3	7	3	250	1.03	4	<2	25	<0.5	<3	<3	8	0.50	0.193
Core Reject Duplicates																						
582481	Rock		1.29	<2	<1	6	<3	11	<0.3	6	<1	150	0.86	7	<2	9	<0.5	<3	<3	16	0.12	0.002
DUP 582481	QC			<2	<1	6	<3	12	<0.3	6	1	159	0.93	8	<2	9	<0.5	<3	<3	16	0.12	0.002
Reference Materials																						
STD DS9	Standard				13	108	126	324	2.3	39	7	593	2.39	29	3	73	2.5	5	7	40	0.73	0.085
STD DS9	Standard				13	113	127	327	2.1	41	7	589	2.38	28	3	69	2.2	5	7	40	0.71	0.083
STD OREAS45EA	Standard				2	653	12	28	1.1	364	47	384	23.80	10	6	4	1.0	<3	<3	290	0.03	0.029
STD OREAS45EA	Standard				3	691	11	31	1.2	394	50	402	25.39	12	6	4	<0.5	<3	<3	313	0.01	0.030
STD OXC109	Standard			203																		
STD OXC109	Standard			202																		
STD OXC109	Standard			197																		
STD OXI96	Standard			1817																		
STD OXI96 Expected				1802																		
STD DS9 Expected					12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
STD OREAS45EA Expected					1.39	709	14.3	30.6	0.26	357	52	400	22.65	9	10.7	3.5				295	0.036	0.029
STD OXC109 Expected				201																		
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001
BLK	Blank			<2																		
BLK	Blank			<2																		
BLK	Blank			2																		
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001
BLK	Blank			<2																		

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Project: RIVIER
Report Date: September 26, 2013

QUALITY CONTROL REPORT WHI13000409.1

		Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
Pulp Duplicates																	
582475	Rock		<1	6	0.01	23	<0.001	<20	0.03	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
REP 582475	QC																
582476	Rock		2	6	0.68	57	<0.001	<20	0.10	<0.01	0.04	<2	0.13	<1	<5	<5	<5
REP 582476	QC		2	6	0.69	58	<0.001	<20	0.10	<0.01	0.04	<2	0.14	<1	<5	<5	<5
1348614	Rock		1	9	0.02	52	0.003	<20	0.10	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
REP 1348614	QC		1	8	0.02	50	0.003	<20	0.10	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
Core Reject Duplicates																	
582481	Rock		1	11	0.28	29	0.001	<20	0.28	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
DUP 582481	QC		1	10	0.28	30	0.001	<20	0.29	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
Reference Materials																	
STD DS9	Standard		12	116	0.62	329	0.108	<20	0.95	0.09	0.41	3	0.16	<1	6	<5	<5
STD DS9	Standard		11	120	0.62	320	0.103	<20	0.94	0.08	0.40	2	0.16	<1	6	5	<5
STD OREAS45EA	Standard		7	844	0.09	138	0.089	<20	3.10	0.02	0.05	<2	<0.05	<1	<5	<5	82
STD OREAS45EA	Standard		8	908	0.09	146	0.095	<20	3.26	0.02	0.06	<2	<0.05	<1	<5	<5	88
STD OXC109	Standard																
STD OXC109	Standard																
STD OXC109	Standard																
STD OXI96	Standard																
STD OXI96 Expected																	
STD DS9 Expected			13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.1615	0.2	5.3	4.59	2.5
STD OREAS45EA Expected			6.57	849	0.095	148	0.0875		3.32	0.02	0.053		0.044			11.7	78
STD OXC109 Expected																	
BLK	Blank		<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank																
BLK	Blank																
BLK	Blank																
BLK	Blank		<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank																

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106A Granite Road
Whitehorse YT Y1A 2V9 CANADA

Project: RIVIER
Report Date: September 26, 2013

QUALITY CONTROL REPORT WHI13000409.1

		WGHT Wgt kg 0.01	3B Au ppb 2	1D Mo ppm 1	1D Cu ppm 1	1D Pb ppm 3	1D Zn ppm 1	1D Ag ppm 0.3	1D Ni ppm 1	1D Co ppm 1	1D Mn ppm 2	1D Fe % 0.01	1D As ppm 2	1D Th ppm 2	1D Sr ppm 1	1D Cd ppm 0.5	1D Sb ppm 3	1D Bi ppm 3	1D V ppm 1	1D Ca % 0.01	1D P % 0.001
Prep Wash																					
G1-WHI	Prep Blank		<2	<1	2	<3	46	0.6	3	4	587	1.98	<2	3	54	<0.5	<3	<3	38	0.50	0.075
G1-WHI	Prep Blank		<2	<1	2	<3	44	0.5	3	4	569	1.98	<2	3	52	<0.5	<3	<3	38	0.53	0.074

Acme Analytical Laboratories (Vancouver) Ltd.
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		1D La ppm 1	1D Cr ppm 1	1D Mg % 0.01	1D Ba ppm 1	1D Ti % 0.001	1D B ppm 20	1D Al % 0.01	1D Na % 0.01	1D K % 0.01	1D W ppm 2	1D S % 0.05	1D Hg ppm 1	1D Tl ppm 5	1D Ga ppm 5	1D Sc ppm 5
Prep Wash																
G1-WHI	Prep Blank	13	8	0.52	167	0.121	<20	0.98	0.09	0.51	<2	<0.05	<1	<5	6	<5
G1-WHI	Prep Blank	11	6	0.53	166	0.123	<20	0.98	0.08	0.52	<2	<0.05	<1	<5	7	<5

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Submitted By: Al Doherty
Receiving Lab: Canada-Whitehorse
Received: September 13, 2013
Report Date: September 24, 2013
Page: 1 of 6

CERTIFICATE OF ANALYSIS WHI13000410.1

CLIENT JOB INFORMATION

Project: RIVIER
Shipment ID: 13-1.1
P.O. Number
Number of Samples: 150

SAMPLE DISPOSAL

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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	150	Dry at 60C			WHI
SS80	150	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	150	Saving all or part of Soil Reject			WHI
1F05	150	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Voyager Gold Corp.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
Country Manager - Canada

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

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106A Granite Road
Whitehorse YT Y1A 2V9 CANADA

Project: RIVIER
Report Date: September 24, 2013

CERTIFICATE OF ANALYSIS WHI13000410.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1348602	Silt	3.54	54.86	61.15	171.9	2942	77.9	25.8	972	5.57	421.7	2.1	400.0	9.4	28.9	1.45	9.41	0.46	36	0.38	0.212
1348608	Silt	0.65	10.80	18.29	188.2	215	32.4	10.1	307	2.34	68.0	0.8	3.6	4.7	20.3	1.93	0.73	0.24	17	0.37	0.145
1348609	Silt	1.33	31.59	35.52	180.2	339	66.3	21.7	694	4.09	136.0	2.2	10.1	7.7	27.3	2.17	1.58	0.48	26	0.45	0.201
1348615	Silt	2.22	82.04	49.02	191.2	5667	80.8	31.2	928	6.09	1971	2.4	356.3	9.1	36.5	1.52	25.75	0.55	14	0.33	0.103
1348616	Silt	1.35	42.23	27.25	178.8	1449	93.7	19.4	1102	4.00	610.7	1.2	100.6	2.3	37.1	1.79	7.02	0.28	17	0.68	0.136
SV-92	Silt	5.94	115.2	80.12	269.9	1435	120.8	32.4	1276	6.23	328.8	3.2	22.5	6.2	36.5	2.74	10.26	0.31	32	0.42	0.215
SV-93	Silt	1.19	29.05	52.55	144.2	381	204.0	23.0	775	3.73	153.4	1.4	9.7	6.0	22.3	1.53	2.68	0.35	23	0.35	0.117
SV-94	Silt	1.63	32.70	41.47	147.2	566	214.7	21.5	745	3.95	147.3	1.3	7.9	5.8	21.4	1.49	2.76	0.24	24	0.38	0.120
KS-1	Soil	1.22	69.52	97.72	207.3	4168	115.8	36.3	2102	7.31	1074	1.9	74.4	1.9	18.1	0.94	10.59	0.28	64	0.25	0.207
KS-2	Soil	1.27	91.61	37.32	180.5	987	212.7	71.6	3628	8.24	422.5	1.7	26.9	6.1	31.9	0.86	7.99	0.12	116	0.59	0.268
KS-3	Soil	0.74	28.56	24.05	56.7	1428	52.0	16.9	1090	3.18	218.3	1.1	10.5	0.2	8.9	0.17	3.10	0.09	47	0.09	0.123
KS-4	Soil	2.31	34.55	28.23	117.7	569	46.0	15.0	570	4.95	220.7	1.1	11.4	2.9	11.6	0.41	3.80	0.35	50	0.06	0.061
KS-5	Soil	1.40	34.39	37.25	115.9	419	49.9	19.2	543	4.78	263.5	1.3	20.9	8.1	10.9	0.37	4.22	0.31	33	0.07	0.057
KS-6	Soil	1.54	47.91	43.92	117.8	1070	73.3	23.8	1097	4.41	283.8	1.4	28.1	8.4	22.5	0.50	7.66	0.27	36	0.30	0.148
KS-7	Soil	1.48	44.57	42.48	126.3	591	63.3	20.0	693	4.44	270.6	1.5	28.2	6.8	17.7	0.53	6.00	0.31	35	0.20	0.122
KS-8	Soil	2.49	48.22	33.36	124.5	380	78.5	21.9	846	4.34	229.9	1.8	26.9	8.0	27.6	0.61	7.62	0.22	46	0.38	0.183
KS-9	Soil	1.60	14.77	16.33	24.6	1939	11.2	3.2	65	1.30	73.4	0.7	20.5	0.5	8.0	0.12	1.26	0.21	24	0.03	0.064
KS-10	Soil	2.55	14.90	18.09	41.5	314	17.1	5.3	143	2.32	181.1	0.6	15.2	1.1	10.0	0.12	2.61	0.26	31	0.03	0.044
KS-11	Soil	3.56	31.98	30.69	82.5	815	42.6	12.2	341	3.95	279.1	1.1	50.9	2.1	14.4	0.25	4.93	0.27	36	0.09	0.096
KS-12	Soil	3.36	53.13	34.50	134.8	1526	63.0	18.9	624	4.99	421.1	1.6	34.3	5.3	25.1	0.54	9.78	0.34	29	0.18	0.145
KS-13	Soil	1.30	30.08	27.35	96.9	569	60.4	18.4	865	3.83	266.6	1.1	15.7	0.8	12.5	0.51	4.63	0.25	35	0.13	0.106
KS-14	Soil	7.21	91.40	36.78	229.5	3981	78.6	25.7	721	6.78	906.4	2.7	66.9	9.9	25.4	1.10	23.67	1.13	14	0.09	0.150
KS-15	Soil	1.59	51.08	63.31	151.8	1166	80.6	27.5	1510	5.41	622.6	1.9	21.5	1.1	10.6	0.64	9.15	0.38	36	0.08	0.124
KS-16	Soil	1.67	47.67	63.28	135.9	1011	59.5	26.1	1164	4.74	296.1	1.6	21.2	4.7	10.6	0.56	5.67	0.43	28	0.07	0.075
KS-17	Soil	3.22	50.65	27.60	128.3	891	72.0	28.1	1539	4.07	385.2	2.2	88.0	9.5	27.5	0.70	6.08	0.28	35	0.29	0.148
KS-18	Soil	2.92	53.58	49.73	142.3	1399	54.4	20.5	882	4.32	319.8	1.7	55.8	4.9	24.8	1.04	8.72	0.33	33	0.16	0.119
KS-19	Soil	7.11	122.7	56.52	237.1	3263	97.2	36.9	1532	6.15	479.7	4.7	173.5	3.4	36.8	2.21	13.83	0.38	31	0.26	0.226
KS-20	Soil	14.03	83.08	41.31	101.3	1465	42.0	14.6	524	4.24	312.2	5.1	20.5	6.5	54.1	0.73	8.48	0.42	30	0.24	0.408
KS-21	Soil	11.02	151.9	28.64	288.7	2841	134.6	32.8	822	6.47	424.8	3.7	17.8	10.5	39.8	3.31	9.12	0.48	27	0.42	0.302
KS-22	Soil	3.79	114.2	28.66	138.4	889	108.6	36.0	1087	4.88	292.4	4.5	21.4	7.1	34.1	1.17	6.71	0.24	51	0.49	0.256

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		Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1348602	Silt		23.9	69.1	0.58	121.9	0.020	<1	0.87	<0.001	0.04	2.1	3.8	0.04	0.03	26	0.8	0.04	3.1	2.06	<0.1	<0.02
1348608	Silt		22.6	27.1	0.30	78.5	0.005	<1	0.68	0.002	0.08	0.3	1.8	0.04	0.02	19	0.5	<0.02	2.1	2.46	<0.1	0.03
1348609	Silt		20.9	54.9	0.49	83.1	0.009	<1	0.78	<0.001	0.09	0.3	3.3	0.06	0.10	16	0.4	0.02	2.8	2.47	<0.1	0.02
1348615	Silt		26.3	19.8	0.21	104.1	0.005	1	0.57	0.004	0.05	1.2	4.7	0.07	0.04	48	1.3	0.07	1.6	3.23	<0.1	0.04
1348616	Silt		17.5	36.1	0.39	110.3	0.004	3	0.83	0.006	0.06	0.8	2.6	0.07	0.08	71	2.1	0.02	2.1	2.95	<0.1	0.04
SV-92	Silt		23.3	70.3	0.61	146.9	0.016	1	0.94	0.003	0.06	0.9	4.8	0.05	0.04	39	2.4	0.07	2.7	2.36	<0.1	0.02
SV-93	Silt		20.3	119.3	1.19	143.4	0.006	3	0.95	0.002	0.14	0.8	3.6	0.05	0.03	35	0.9	<0.02	2.9	3.73	<0.1	0.03
SV-94	Silt		19.0	131.7	1.19	116.0	0.006	2	0.95	0.003	0.14	0.5	3.9	0.05	0.04	32	0.9	<0.02	3.0	3.49	0.1	0.05
KS-1	Soil		28.3	129.4	1.07	255.0	0.004	<1	1.73	0.005	0.07	3.8	9.4	0.08	0.04	92	0.5	0.03	6.0	7.42	<0.1	0.03
KS-2	Soil		38.1	214.3	1.76	400.8	0.016	<1	2.31	<0.001	0.04	3.5	17.2	0.14	<0.02	53	0.5	<0.02	8.3	6.61	0.1	0.04
KS-3	Soil		16.1	84.4	0.66	102.8	0.006	<1	1.62	0.020	0.03	1.3	2.0	0.10	0.05	23	0.3	<0.02	5.4	3.30	<0.1	<0.02
KS-4	Soil		34.8	61.5	0.40	103.8	0.040	<1	1.26	0.003	0.04	0.5	2.6	0.08	0.02	17	0.2	0.03	5.6	3.90	<0.1	<0.02
KS-5	Soil		38.4	49.7	0.43	49.1	0.032	<1	1.08	0.002	0.04	0.4	2.7	0.05	<0.02	15	0.3	0.04	3.9	2.76	<0.1	0.02
KS-6	Soil		35.0	63.4	0.60	116.1	0.031	<1	0.98	0.004	0.07	0.8	4.4	0.05	<0.02	43	0.3	0.03	3.7	3.17	<0.1	<0.02
KS-7	Soil		36.1	64.9	0.54	71.6	0.028	<1	1.04	0.002	0.04	0.6	3.4	0.05	<0.02	26	0.4	0.03	4.0	2.54	<0.1	<0.02
KS-8	Soil		29.2	86.3	0.78	139.2	0.045	<1	1.22	0.002	0.05	1.3	5.4	0.06	<0.02	46	0.6	<0.02	4.2	2.00	<0.1	0.03
KS-9	Soil		23.5	20.0	0.10	59.0	0.005	<1	0.95	0.005	0.04	0.2	0.5	0.12	<0.02	91	0.3	0.04	5.1	1.98	<0.1	<0.02
KS-10	Soil		30.9	23.7	0.16	45.9	0.009	<1	0.89	0.002	0.03	0.4	0.9	0.08	<0.02	21	0.3	0.03	4.6	2.01	<0.1	<0.02
KS-11	Soil		27.6	41.6	0.32	68.7	0.010	<1	1.16	0.002	0.04	0.8	2.0	0.09	<0.02	32	0.7	0.03	4.4	2.52	<0.1	<0.02
KS-12	Soil		30.9	44.6	0.34	71.4	0.014	<1	0.80	0.003	0.06	0.8	3.7	0.05	<0.02	36	1.0	0.10	2.8	2.38	<0.1	<0.02
KS-13	Soil		25.4	71.1	0.49	95.9	0.008	<1	0.94	0.008	0.05	1.0	2.0	0.05	0.03	24	0.2	0.04	3.7	2.71	<0.1	<0.02
KS-14	Soil		18.2	17.8	0.10	64.9	0.003	<1	0.37	0.002	0.06	0.8	4.4	0.04	<0.02	53	5.2	0.31	1.1	4.01	<0.1	0.02
KS-15	Soil		27.1	66.3	0.41	102.5	0.006	<1	1.09	0.006	0.05	1.3	3.0	0.06	0.03	35	0.4	0.03	3.6	3.62	<0.1	<0.02
KS-16	Soil		34.9	43.2	0.39	88.3	0.018	<1	1.00	0.003	0.05	0.9	3.2	0.06	<0.02	28	0.4	0.05	3.4	3.19	<0.1	<0.02
KS-17	Soil		26.7	49.7	0.55	303.7	0.044	<1	1.01	0.005	0.07	0.4	4.5	0.09	<0.02	35	0.5	0.06	3.4	1.80	<0.1	0.05
KS-18	Soil		31.8	45.9	0.49	109.7	0.021	<1	1.04	0.003	0.06	0.4	3.4	0.06	<0.02	38	0.5	0.06	3.2	1.89	<0.1	<0.02
KS-19	Soil		30.9	48.7	0.39	159.8	0.010	<1	0.95	0.003	0.04	1.1	4.3	0.08	0.03	53	2.1	0.05	3.0	3.61	<0.1	<0.02
KS-20	Soil		22.3	29.2	0.29	101.2	0.009	<1	0.75	0.002	0.07	0.6	2.7	0.07	0.03	62	4.4	0.15	2.3	2.15	<0.1	<0.02
KS-21	Soil		22.0	50.4	0.37	79.1	0.021	<1	0.71	0.002	0.04	0.6	7.6	0.04	<0.02	36	2.2	0.07	2.0	2.85	0.1	0.03
KS-22	Soil		24.2	122.8	1.08	118.6	0.044	<1	1.50	0.002	0.05	0.8	5.4	0.05	<0.02	25	0.9	0.06	4.6	3.11	<0.1	<0.02

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CERTIFICATE OF ANALYSIS WHI13000410.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1348602	Silt	0.29	4.3	4.1	<0.05	1.5	7.52	47.6	0.04	<1	0.6	14.6	<10	<2
1348608	Silt	0.15	10.8	5.8	<0.05	1.2	12.67	46.9	<0.02	<1	0.5	18.5	<10	<2
1348609	Silt	0.12	8.5	18.2	<0.05	1.6	16.80	42.5	<0.02	<1	0.8	25.0	<10	<2
1348615	Silt	0.11	8.1	1.8	<0.05	0.9	13.07	52.6	0.03	<1	0.7	7.6	<10	<2
1348616	Silt	0.18	14.2	7.1	<0.05	1.2	11.72	35.8	<0.02	<1	0.4	11.4	<10	<2
SV-92	Silt	0.42	5.7	15.3	<0.05	0.9	11.99	45.5	<0.02	1	0.4	16.0	<10	<2
SV-93	Silt	0.15	9.1	19.8	<0.05	1.7	10.98	39.0	<0.02	<1	0.4	22.6	<10	<2
SV-94	Silt	0.42	8.6	34.3	<0.05	1.6	9.60	36.3	<0.02	<1	0.2	21.1	<10	<2
KS-1	Soil	0.22	11.9	31.0	<0.05	1.2	15.12	44.8	<0.02	<1	1.0	19.6	<10	<2
KS-2	Soil	0.23	6.0	4.7	<0.05	1.5	16.31	92.1	0.07	<1	1.2	31.9	<10	<2
KS-3	Soil	0.21	7.2	6.6	<0.05	0.7	5.48	28.0	<0.02	<1	0.5	12.2	<10	<2
KS-4	Soil	1.38	8.0	3.3	<0.05	0.9	5.17	71.8	<0.02	<1	0.3	9.9	<10	<2
KS-5	Soil	0.83	7.8	4.0	<0.05	1.2	4.30	76.9	0.02	<1	0.3	12.7	<10	<2
KS-6	Soil	0.60	9.0	3.5	<0.05	1.1	6.69	71.1	0.03	<1	0.5	15.6	<10	<2
KS-7	Soil	0.57	8.8	2.3	<0.05	1.0	5.57	69.1	0.03	<1	0.5	15.5	<10	<2
KS-8	Soil	0.46	6.3	1.3	<0.05	2.5	9.37	59.6	0.02	<1	0.5	20.8	<10	<2
KS-9	Soil	0.17	8.2	4.4	<0.05	0.3	1.96	44.2	<0.02	<1	0.2	3.8	<10	<2
KS-10	Soil	0.38	8.2	1.3	<0.05	0.2	2.52	60.3	<0.02	<1	0.1	4.4	<10	<2
KS-11	Soil	0.34	10.6	2.9	<0.05	0.5	3.86	53.0	<0.02	<1	0.2	10.3	<10	<2
KS-12	Soil	0.32	7.7	1.9	<0.05	0.3	6.20	59.9	0.03	<1	0.4	9.2	<10	<2
KS-13	Soil	0.24	12.4	7.8	<0.05	0.3	4.79	50.0	<0.02	<1	0.4	10.8	<10	<2
KS-14	Soil	0.08	5.4	1.6	<0.05	2.5	7.84	34.7	0.03	1	0.5	4.1	<10	<2
KS-15	Soil	0.14	9.7	4.9	<0.05	0.2	5.84	49.8	0.03	<1	0.5	10.9	<10	<2
KS-16	Soil	0.36	8.6	2.1	<0.05	0.6	5.05	69.4	0.03	1	0.4	14.4	<10	<2
KS-17	Soil	0.34	6.6	3.6	<0.05	4.9	8.99	53.0	0.03	<1	0.3	14.1	<10	2
KS-18	Soil	0.35	6.8	1.5	<0.05	0.7	7.30	59.8	<0.02	<1	0.4	15.8	<10	<2
KS-19	Soil	0.16	6.1	1.4	<0.05	0.7	13.97	59.7	0.04	<1	0.6	13.1	<10	<2
KS-20	Soil	0.22	7.2	0.9	<0.05	0.6	8.94	43.5	0.03	2	0.5	9.7	14	5
KS-21	Soil	0.30	3.6	3.2	<0.05	3.7	19.01	39.4	0.03	<1	0.7	10.7	<10	<2
KS-22	Soil	0.47	5.7	0.9	<0.05	1.2	8.75	55.4	0.03	<1	0.5	29.6	<10	<2

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Project: RIVIER
Report Date: September 24, 2013

CERTIFICATE OF ANALYSIS WHI13000410.1

		Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
KS-23	Soil		4.40	23.25	16.04	44.1	1026	24.0	7.0	146	2.19	160.2	1.2	9.1	0.2	10.1	0.25	4.19	0.18	28	0.05	0.078
KS-24	Soil		6.28	40.68	21.76	69.8	1005	35.8	13.2	508	2.72	97.5	1.8	13.0	0.6	28.9	0.55	3.90	0.24	35	0.24	0.140
KS-25	Soil		18.37	32.97	86.07	55.8	602	73.1	7.4	134	2.56	343.9	2.6	8.0	1.4	38.2	0.46	2.23	0.87	33	0.13	0.095
KS-26	Soil		10.28	42.66	34.78	115.8	164	38.6	10.7	349	4.12	1581	2.3	1.0	4.7	15.9	0.79	1.40	0.50	22	0.12	0.074
KS-27	Soil		1.18	25.68	12.23	131.6	94	78.6	17.5	466	5.14	168.9	1.5	0.5	10.3	8.6	0.28	0.73	0.43	17	0.10	0.041
KS-28	Soil		1.53	50.62	22.97	114.8	237	111.1	35.1	1223	5.32	95.7	1.3	3.6	12.3	23.6	0.42	1.26	0.35	34	0.25	0.133
KS-29	Soil		1.30	27.19	20.96	44.9	618	72.5	13.2	433	2.62	148.3	1.3	8.8	0.8	13.9	0.25	1.56	0.23	35	0.22	0.102
KS-30	Soil		1.81	31.33	18.39	66.1	108	92.4	14.8	391	2.78	226.9	0.9	3.6	6.3	11.3	0.21	3.03	0.20	25	0.17	0.045
KS-31	Soil		1.44	18.50	41.42	51.4	143	54.4	10.0	466	1.97	36.6	1.3	1.2	14.0	19.7	0.23	0.92	0.17	21	0.24	0.078
KS-32	Soil		0.95	10.35	29.10	39.9	72	15.6	8.7	281	1.98	51.5	0.9	0.6	11.7	28.9	0.18	0.44	0.10	24	0.25	0.085
KS-33	Soil		1.72	16.46	74.94	62.1	75	46.4	10.1	329	2.84	161.5	0.8	1.9	7.1	13.9	0.36	1.24	0.13	21	0.19	0.106
KS-34	Soil		1.28	16.43	52.78	41.3	42	237.3	19.8	446	2.93	132.5	0.8	1.6	4.3	7.0	0.26	5.01	0.15	15	0.10	0.078
KS-35	Soil		1.56	21.42	48.75	66.3	226	201.8	18.1	409	3.21	134.3	1.3	1.7	9.4	18.8	0.28	5.72	0.13	18	0.20	0.089
KS-36	Soil		7.84	168.4	43.93	141.7	499	77.3	9.1	178	3.76	2434	5.4	6.0	4.9	32.3	1.44	1.44	0.53	35	0.14	0.076
KS-37	Soil		0.66	7.31	37.57	10.3	93	8.4	2.8	87	0.94	22.6	0.5	0.3	10.9	14.7	0.04	0.19	0.09	3	0.14	0.037
KS-38	Soil		1.51	9.09	13.03	16.8	27	15.9	3.1	66	1.06	32.6	0.4	0.8	3.1	4.0	0.04	0.76	0.14	16	0.05	0.027
KS-39	Soil		0.24	13.44	3.98	10.9	29	13.4	2.3	52	0.76	11.5	0.2	0.6	0.1	10.6	0.03	0.52	0.04	19	0.11	0.062
KS-40	Soil		1.15	19.80	49.30	23.0	149	15.4	5.5	194	0.88	5.7	1.1	0.9	20.7	15.5	0.10	0.35	0.13	3	0.16	0.078
KS-41	Soil		0.87	11.08	21.36	29.7	62	25.3	6.9	118	1.55	19.5	0.6	0.3	10.7	17.3	0.23	2.49	0.06	13	0.15	0.094
KS-42	Soil		1.19	13.68	29.96	48.0	52	26.5	6.7	349	2.69	14.7	0.9	0.7	11.6	14.8	0.10	0.53	0.10	26	0.24	0.081
KS-43	Soil		2.12	21.06	28.50	89.2	105	39.7	13.2	398	4.46	33.7	0.8	<0.2	2.3	9.7	0.21	1.07	0.17	72	0.12	0.077
KS-44	Soil		1.15	14.10	24.19	58.1	54	49.0	7.9	179	2.49	35.8	0.8	1.6	4.8	12.4	0.11	1.02	0.13	40	0.17	0.079
KS-45	Soil		1.45	13.75	41.09	40.8	104	46.1	12.9	498	2.35	44.7	0.7	0.8	1.8	12.2	0.23	0.96	0.15	23	0.14	0.093
KS-46	Soil		0.94	12.23	31.22	34.1	100	49.7	10.8	276	1.82	74.1	0.7	1.5	9.4	13.3	0.11	1.06	0.22	18	0.14	0.078
KS-47	Soil		1.42	18.28	69.22	106.2	89	44.6	9.9	362	2.86	103.4	1.4	3.4	6.0	15.3	0.24	1.48	0.29	22	0.17	0.082
KS-48	Soil		1.45	26.12	28.05	62.7	312	139.8	21.6	865	4.48	244.9	1.3	8.7	9.2	15.5	0.34	3.06	0.16	34	0.22	0.071
SV-1	Soil		1.66	48.17	22.68	105.4	220	64.9	20.8	981	4.59	443.1	1.4	61.0	6.7	19.0	0.32	4.84	0.29	37	0.10	0.089
SV-2	Soil		1.71	21.18	14.50	59.3	226	25.0	8.1	319	2.90	224.1	0.8	25.8	0.7	10.1	0.15	1.81	0.25	31	0.05	0.068
SV-3	Soil		1.66	38.51	20.39	97.9	209	33.9	14.4	529	3.74	236.4	1.2	34.6	6.5	8.2	0.37	2.68	0.28	23	0.07	0.071
SV-4	Soil		1.91	41.67	22.88	135.0	221	46.2	21.6	728	4.49	380.1	1.8	46.1	11.4	7.8	0.72	3.74	0.32	18	0.04	0.062

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Project: RIVIER
Report Date: September 24, 2013

CERTIFICATE OF ANALYSIS WHI13000410.1

		Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
KS-23	Soil		12.6	28.0	0.18	41.7	0.004	1	0.55	0.017	0.03	0.3	0.3	0.05	0.02	42	1.0	0.05	2.9	1.93	<0.1	0.03
KS-24	Soil		18.4	44.5	0.45	123.7	0.020	<1	0.93	0.011	0.05	0.5	1.4	0.07	0.03	45	1.2	0.04	3.5	2.30	<0.1	<0.02
KS-25	Soil		15.5	92.4	0.48	126.5	0.009	2	0.94	0.003	0.06	0.4	1.2	0.12	0.07	114	4.3	0.08	2.4	2.93	<0.1	<0.02
KS-26	Soil		21.6	49.7	0.19	105.3	0.001	<1	0.45	0.003	0.06	0.3	1.5	0.06	0.04	18	2.2	0.12	1.8	4.35	<0.1	0.03
KS-27	Soil		29.6	85.6	1.00	63.9	0.003	1	1.83	0.005	0.07	<0.1	2.7	0.03	<0.02	14	0.4	<0.02	5.6	4.62	<0.1	0.09
KS-28	Soil		55.4	52.8	0.19	223.0	0.001	1	0.58	0.003	0.10	0.2	7.7	0.11	<0.02	60	0.6	<0.02	2.3	11.19	<0.1	0.05
KS-29	Soil		13.3	75.8	0.34	253.0	0.007	<1	0.86	0.015	0.07	0.2	1.6	0.11	0.05	50	0.7	<0.02	3.1	8.58	<0.1	<0.02
KS-30	Soil		24.9	139.0	0.68	278.4	0.006	2	0.71	0.002	0.05	0.3	2.2	0.08	<0.02	16	0.2	0.03	2.2	2.78	<0.1	<0.02
KS-31	Soil		42.8	53.6	0.47	251.7	0.012	<1	0.80	0.004	0.15	0.2	2.4	0.13	<0.02	27	0.4	0.03	2.3	4.65	<0.1	<0.02
KS-32	Soil		38.6	16.7	0.22	320.8	0.018	3	0.61	0.002	0.22	0.2	2.9	0.14	<0.02	22	0.2	<0.02	2.1	11.70	<0.1	<0.02
KS-33	Soil		33.2	57.2	0.41	143.1	0.010	<1	0.69	0.002	0.12	0.3	1.9	0.13	<0.02	18	0.5	<0.02	2.3	4.15	<0.1	<0.02
KS-34	Soil		21.9	238.3	0.71	353.3	0.002	2	0.87	0.001	0.15	0.5	1.9	0.15	<0.02	27	0.4	0.03	1.6	14.23	<0.1	<0.02
KS-35	Soil		25.2	177.6	0.73	367.5	0.008	1	0.69	0.002	0.17	0.5	3.3	0.16	0.02	38	0.7	<0.02	1.7	7.19	<0.1	<0.02
KS-36	Soil		20.2	88.0	0.35	280.4	0.004	<1	0.74	0.005	0.10	0.3	2.2	0.10	0.08	67	3.9	0.13	2.3	3.75	<0.1	<0.02
KS-37	Soil		51.8	7.9	0.09	795.6	<0.001	1	0.97	<0.001	0.10	0.1	0.6	0.19	<0.02	7	<0.1	<0.02	1.7	13.32	<0.1	<0.02
KS-38	Soil		22.5	24.6	0.03	71.7	0.002	<1	0.56	0.001	0.10	0.3	0.4	0.10	<0.02	16	0.1	<0.02	1.9	4.81	<0.1	<0.02
KS-39	Soil		4.9	19.5	0.08	59.4	0.019	<1	0.48	0.033	0.04	<0.1	0.4	0.03	0.02	13	<0.1	<0.02	1.8	0.89	<0.1	<0.02
KS-40	Soil		66.7	10.9	0.05	282.3	<0.001	2	0.40	0.002	0.22	0.1	0.7	0.08	<0.02	21	0.2	<0.02	0.9	13.73	<0.1	<0.02
KS-41	Soil		35.7	33.3	0.17	205.8	0.004	<1	0.49	0.002	0.18	0.2	1.5	0.12	<0.02	27	0.2	<0.02	1.4	4.32	<0.1	<0.02
KS-42	Soil		42.7	29.7	0.32	246.6	0.009	<1	0.85	0.003	0.13	0.2	2.3	0.08	<0.02	19	0.2	<0.02	2.6	3.11	<0.1	<0.02
KS-43	Soil		29.3	63.0	0.68	162.9	0.021	<1	1.15	0.002	0.10	0.3	5.7	0.11	0.03	35	0.4	<0.02	5.6	4.64	<0.1	<0.02
KS-44	Soil		26.8	64.0	0.60	166.0	0.025	1	1.12	0.004	0.10	0.3	2.9	0.12	<0.02	24	0.2	0.02	3.7	2.80	<0.1	<0.02
KS-45	Soil		28.4	70.7	0.33	293.6	0.004	1	0.90	0.002	0.15	0.2	0.9	0.14	0.03	23	0.2	<0.02	2.4	6.39	<0.1	<0.02
KS-46	Soil		41.5	73.6	0.43	231.8	0.009	1	0.67	0.002	0.17	0.2	1.6	0.11	<0.02	14	0.2	<0.02	2.0	9.28	<0.1	<0.02
KS-47	Soil		27.5	61.7	0.38	322.6	0.004	<1	0.79	0.002	0.18	0.2	2.1	0.13	<0.02	20	0.3	0.03	2.3	36.36	<0.1	<0.02
KS-48	Soil		29.9	140.9	0.68	400.4	0.008	<1	0.93	0.002	0.12	0.4	5.1	0.11	<0.02	23	0.4	0.02	2.7	8.16	<0.1	0.03
SV-1	Soil		34.0	65.6	0.68	120.3	0.007	<1	1.34	0.002	0.05	0.3	4.8	0.05	<0.02	22	0.3	0.04	4.3	2.20	<0.1	<0.02
SV-2	Soil		25.9	29.9	0.24	68.5	0.006	<1	1.05	0.003	0.05	0.2	0.9	0.10	<0.02	22	0.2	<0.02	4.5	2.64	<0.1	<0.02
SV-3	Soil		31.0	26.4	0.31	55.3	0.011	<1	1.09	0.002	0.05	0.3	2.3	0.07	<0.02	19	0.5	<0.02	3.2	1.50	<0.1	<0.02
SV-4	Soil		35.0	24.5	0.27	63.3	0.006	1	0.89	0.003	0.07	0.4	2.8	0.06	<0.02	32	0.7	<0.02	2.2	1.55	<0.1	0.04

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Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
KS-23	Soil	0.11	5.4	2.9	<0.05	0.5	2.39	22.6	<0.02	<1	0.2	4.0	<10	<2
KS-24	Soil	0.35	7.9	2.2	<0.05	0.3	6.53	35.8	0.02	<1	0.3	11.1	<10	2
KS-25	Soil	0.32	8.1	3.7	<0.05	0.5	3.35	28.5	<0.02	<1	0.4	9.5	<10	<2
KS-26	Soil	0.11	8.1	14.1	<0.05	1.0	2.78	38.9	<0.02	<1	0.3	4.3	<10	<2
KS-27	Soil	0.08	5.5	3.2	<0.05	5.7	3.42	54.3	<0.02	<1	0.4	29.8	<10	<2
KS-28	Soil	0.06	9.8	1.6	<0.05	3.5	10.39	105.9	0.02	<1	0.4	5.3	<10	<2
KS-29	Soil	0.21	11.0	2.9	<0.05	0.5	12.93	20.8	0.02	<1	0.4	8.2	<10	<2
KS-30	Soil	0.30	7.6	0.8	<0.05	0.6	4.83	47.2	0.02	<1	0.2	8.9	<10	<2
KS-31	Soil	0.29	11.7	2.4	<0.05	0.4	12.64	75.0	<0.02	<1	0.4	9.9	<10	<2
KS-32	Soil	0.12	12.4	1.2	<0.05	0.3	11.25	74.2	<0.02	<1	0.4	6.7	<10	<2
KS-33	Soil	0.32	10.2	4.3	<0.05	0.1	9.24	62.6	<0.02	<1	0.6	8.7	<10	<2
KS-34	Soil	0.16	17.2	2.0	<0.05	0.7	4.81	44.7	<0.02	<1	1.0	8.8	<10	<2
KS-35	Soil	0.19	13.9	4.7	<0.05	0.6	12.59	48.1	<0.02	<1	0.8	9.8	<10	<2
KS-36	Soil	0.25	9.7	0.8	<0.05	1.5	9.94	33.2	0.04	1	0.5	8.3	<10	3
KS-37	Soil	0.12	16.1	2.8	<0.05	0.3	5.97	97.1	<0.02	1	0.3	5.7	<10	<2
KS-38	Soil	0.27	11.0	1.1	<0.05	0.2	2.13	44.6	<0.02	<1	<0.1	1.4	<10	<2
KS-39	Soil	0.10	3.7	1.5	<0.05	0.3	1.44	9.6	<0.02	<1	0.2	1.3	<10	<2
KS-40	Soil	0.04	12.9	1.3	<0.05	0.3	12.17	126.0	<0.02	<1	0.6	2.5	<10	<2
KS-41	Soil	0.16	9.9	1.2	<0.05	0.2	10.40	71.1	<0.02	<1	0.2	5.5	<10	<2
KS-42	Soil	0.26	9.4	0.5	<0.05	0.1	10.45	80.7	<0.02	<1	0.5	9.2	<10	<2
KS-43	Soil	0.42	12.6	6.2	<0.05	0.2	8.09	53.2	0.04	<1	0.3	9.2	<10	<2
KS-44	Soil	0.68	11.4	1.4	<0.05	0.5	6.85	49.3	<0.02	<1	0.6	14.7	<10	<2
KS-45	Soil	0.22	14.6	4.2	<0.05	0.1	6.61	54.6	<0.02	<1	0.4	7.3	<10	<2
KS-46	Soil	0.25	13.3	0.5	<0.05	0.2	7.61	76.5	<0.02	<1	0.5	6.8	<10	<2
KS-47	Soil	0.25	14.7	7.0	<0.05	0.4	9.01	54.0	<0.02	<1	0.4	9.3	<10	<2
KS-48	Soil	0.43	13.0	1.0	<0.05	1.4	11.32	57.7	0.02	<1	0.5	10.5	<10	<2
SV-1	Soil	0.17	7.9	1.3	<0.05	0.4	6.86	65.8	0.04	<1	0.3	17.1	<10	<2
SV-2	Soil	0.26	10.3	1.0	<0.05	0.3	2.90	50.5	<0.02	<1	0.2	9.2	<10	<2
SV-3	Soil	0.27	9.0	1.2	<0.05	0.8	5.09	57.9	0.02	<1	0.3	17.3	<10	<2
SV-4	Soil	0.22	8.1	0.7	<0.05	3.5	4.82	67.8	<0.02	<1	0.6	16.3	<10	<2

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Project: RIVIER
Report Date: September 24, 2013

CERTIFICATE OF ANALYSIS WHI13000410.1

		Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
SV-5	Soil		2.01	46.79	20.07	121.6	465	52.6	18.8	693	4.37	316.9	1.6	37.1	10.1	9.7	0.60	3.78	0.29	20	0.09	0.093
SV-6	Soil		10.86	190.5	21.70	116.3	844	46.8	17.4	493	4.55	273.0	3.5	19.7	10.2	23.4	0.81	7.84	0.27	25	0.16	0.195
SV-7	Soil		7.95	132.9	49.29	143.3	1929	64.8	27.3	872	5.13	492.5	2.8	38.5	10.3	42.0	1.19	8.76	0.35	19	0.39	0.167
SV-8	Soil		2.23	62.58	23.53	97.9	802	65.0	19.7	778	4.83	190.7	1.7	22.4	6.0	15.0	0.30	2.95	0.36	18	0.17	0.089
SV-9	Soil		0.93	25.12	9.70	27.1	644	23.0	6.2	323	1.63	63.3	0.7	5.8	0.2	9.0	0.08	1.01	0.14	12	0.09	0.042
SV-10	Soil		2.11	95.80	37.24	141.0	581	116.4	36.2	1532	6.74	212.5	2.4	5.6	12.7	9.3	0.55	3.72	0.51	13	0.09	0.085
SV-11	Soil		3.70	71.75	29.09	87.0	512	75.5	31.6	1553	5.81	195.1	1.6	18.5	9.1	16.6	0.18	3.65	0.57	32	0.09	0.116
SV-12	Soil		2.12	52.78	27.33	118.5	421	46.7	20.8	853	5.54	449.1	1.3	62.3	6.7	7.1	0.41	4.71	0.39	17	0.07	0.108
SV-13	Soil		1.86	36.82	19.93	101.8	508	38.4	13.7	444	3.77	296.8	1.2	47.7	2.2	8.7	0.38	3.70	0.31	21	0.05	0.070
SV-14	Soil		2.07	44.13	33.35	146.0	603	58.5	21.1	876	4.98	516.2	1.6	171.9	2.6	18.8	0.57	3.88	0.44	25	0.18	0.118
SV-15	Soil		1.12	22.21	11.94	73.7	70	42.2	16.0	843	4.06	481.6	0.7	17.6	0.8	9.6	0.23	1.69	0.27	23	0.07	0.086
SV-16	Soil		1.12	39.95	15.24	78.5	170	61.7	21.0	802	4.11	399.9	0.8	19.6	0.6	8.3	0.37	2.24	0.25	24	0.05	0.078
SV-17	Soil		1.27	43.56	15.79	73.9	603	53.9	18.1	600	3.85	367.2	0.9	40.3	0.7	10.2	0.29	2.63	0.33	19	0.07	0.095
SV-18	Soil		1.13	31.80	17.82	72.1	329	40.2	18.8	757	3.45	216.5	0.8	22.3	0.6	5.9	0.20	2.04	0.32	15	0.05	0.070
SV-19	Soil		1.35	42.06	33.87	113.8	206	51.1	25.1	1232	5.00	195.3	1.5	18.5	7.3	8.4	0.27	2.84	0.42	15	0.07	0.074
SV-20	Soil		1.57	48.99	23.41	95.5	581	51.5	19.6	1599	4.17	238.6	1.4	36.4	2.9	9.6	0.41	3.45	0.37	18	0.09	0.076
SV-21	Soil		1.44	45.28	29.36	94.0	300	49.9	24.7	898	4.44	205.6	1.3	32.0	2.8	8.7	0.25	2.57	0.41	18	0.07	0.083
SV-22	Soil		1.59	42.06	23.98	113.1	1018	63.3	22.6	1517	4.36	475.7	1.4	71.5	4.6	14.1	0.50	6.08	0.33	25	0.16	0.093
SV-23	Soil		1.43	49.96	34.42	129.2	428	63.6	28.4	941	4.97	301.1	1.6	40.9	10.5	14.0	0.62	5.49	0.43	19	0.15	0.071
SV-24	Soil		2.34	47.17	36.63	121.6	464	72.0	30.3	1835	4.12	185.0	1.3	22.7	2.7	15.9	1.74	3.35	0.42	15	0.15	0.093
SV-25	Soil		3.74	66.93	29.84	127.5	1221	49.7	17.4	538	4.68	389.5	1.6	51.6	3.4	11.7	0.61	9.13	0.40	23	0.11	0.099
SV-26	Soil		2.69	39.83	22.21	86.3	1104	31.4	10.7	373	3.75	411.6	1.1	51.0	1.1	9.0	0.33	5.80	0.34	18	0.05	0.089
SV-27	Soil		2.05	43.47	21.71	100.7	641	53.3	21.8	806	4.98	323.1	1.3	50.1	3.1	7.2	0.29	4.19	0.36	20	0.06	0.087
SV-28	Soil		1.82	58.21	28.33	135.1	1016	69.0	26.7	990	5.14	532.8	1.3	65.7	11.3	10.6	0.54	7.66	0.36	15	0.11	0.094
SV-29	Soil		2.53	64.16	21.49	127.6	676	88.4	26.6	1122	5.01	266.6	1.6	28.0	9.8	25.6	0.68	6.24	0.30	29	0.27	0.142
SV-30	Soil		1.78	43.08	20.78	119.0	292	52.2	18.9	640	4.41	321.3	1.9	37.6	3.9	17.8	0.60	3.62	0.32	24	0.22	0.120
SV-31	Soil		1.22	22.92	17.32	111.2	244	206.6	29.0	811	3.66	193.1	1.3	7.6	4.7	22.9	0.84	5.26	0.21	22	0.36	0.122
SV-32	Soil		1.24	30.27	17.99	75.6	473	120.8	17.3	486	3.20	280.5	1.0	31.4	3.6	22.9	0.35	10.89	0.22	37	0.36	0.087
SV-33	Soil		1.23	23.91	18.73	100.0	551	191.5	23.8	543	3.35	208.6	1.6	18.0	2.9	16.9	0.76	4.93	0.22	23	0.26	0.115
SV-34	Soil		0.97	16.19	16.26	86.9	132	236.5	28.3	593	3.40	149.5	1.0	4.3	2.5	15.6	0.59	3.61	0.17	25	0.21	0.114

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CERTIFICATE OF ANALYSIS WHI13000410.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
SV-5	Soil	35.4	25.9	0.28	74.3	0.006	<1	0.90	0.003	0.08	0.4	3.8	0.06	<0.02	27	0.7	<0.02	2.7	1.60	<0.1	<0.02
SV-6	Soil	28.0	22.7	0.22	72.1	0.008	<1	0.69	0.002	0.06	0.5	3.7	0.07	<0.02	46	5.5	0.06	1.9	2.54	<0.1	<0.02
SV-7	Soil	24.5	18.6	0.23	103.0	0.006	1	0.56	0.005	0.07	0.5	6.2	0.08	0.03	36	2.0	0.15	1.6	3.31	<0.1	<0.02
SV-8	Soil	18.5	32.9	0.36	99.0	0.003	<1	0.91	0.007	0.06	0.3	3.3	0.05	0.02	29	0.5	0.05	2.7	2.71	<0.1	<0.02
SV-9	Soil	6.4	14.4	0.12	55.0	0.004	<1	0.48	0.025	0.03	0.1	0.6	0.03	<0.02	24	0.3	<0.02	2.1	1.95	<0.1	<0.02
SV-10	Soil	30.2	43.7	0.39	68.1	0.002	1	0.84	0.004	0.05	0.4	4.7	0.04	<0.02	21	0.5	0.05	2.4	2.90	<0.1	0.04
SV-11	Soil	29.2	62.3	0.66	75.2	0.004	<1	1.13	0.002	0.04	0.3	6.2	0.06	<0.02	17	0.9	0.09	4.5	2.59	<0.1	<0.02
SV-12	Soil	28.8	23.9	0.26	55.2	0.005	<1	0.88	0.002	0.05	0.6	2.6	0.06	<0.02	29	0.8	0.06	2.7	1.52	<0.1	<0.02
SV-13	Soil	32.5	25.8	0.25	60.9	0.007	<1	0.90	0.002	0.05	0.7	1.4	0.08	<0.02	31	0.5	0.05	2.7	2.22	<0.1	0.06
SV-14	Soil	29.1	34.1	0.35	156.7	0.007	<1	1.04	0.003	0.07	0.4	3.1	0.07	<0.02	26	0.7	0.05	3.0	3.80	<0.1	0.03
SV-15	Soil	24.5	31.0	0.23	116.8	0.006	<1	0.90	0.003	0.06	0.3	1.2	0.08	0.02	19	0.3	0.02	3.3	2.51	<0.1	<0.02
SV-16	Soil	18.2	30.6	0.27	108.8	0.007	<1	0.91	0.007	0.05	0.3	1.2	0.07	0.03	21	0.3	0.04	3.1	2.17	<0.1	<0.02
SV-17	Soil	20.3	26.1	0.24	106.0	0.004	<1	0.94	0.008	0.05	0.4	1.4	0.08	<0.02	38	0.4	0.04	3.0	2.45	<0.1	0.02
SV-18	Soil	18.8	19.9	0.22	61.6	0.005	<1	0.78	0.010	0.04	0.3	0.9	0.07	<0.02	19	0.2	0.04	2.6	2.03	<0.1	<0.02
SV-19	Soil	30.6	25.9	0.41	68.9	0.005	<1	1.11	0.005	0.05	0.4	2.5	0.04	<0.02	14	0.3	0.05	3.4	1.83	<0.1	<0.02
SV-20	Soil	26.9	25.4	0.31	107.1	0.006	1	0.97	0.004	0.06	0.4	2.0	0.05	<0.02	35	0.6	0.04	2.7	2.29	<0.1	<0.02
SV-21	Soil	26.7	26.4	0.34	61.5	0.005	2	1.02	0.005	0.05	0.3	1.7	0.05	<0.02	25	0.3	0.04	3.1	2.57	<0.1	<0.02
SV-22	Soil	29.1	31.6	0.38	241.6	0.006	2	1.24	0.003	0.06	0.7	3.9	0.10	<0.02	52	0.5	0.02	3.6	3.07	<0.1	0.02
SV-23	Soil	37.3	27.1	0.50	140.1	0.007	2	1.35	0.004	0.06	0.4	3.4	0.05	<0.02	24	0.4	0.04	3.7	3.11	0.2	0.02
SV-24	Soil	23.2	24.0	0.49	117.2	0.005	1	1.35	0.009	0.04	0.3	1.5	0.07	0.02	24	0.4	0.04	4.0	3.54	<0.1	0.03
SV-25	Soil	28.8	25.7	0.28	88.8	0.009	<1	0.86	0.003	0.05	0.7	2.2	0.06	<0.02	28	1.0	0.09	2.6	1.90	<0.1	<0.02
SV-26	Soil	23.4	20.8	0.19	61.3	0.004	<1	0.83	0.004	0.04	0.9	0.9	0.08	<0.02	32	1.1	0.02	2.7	2.21	<0.1	<0.02
SV-27	Soil	27.0	31.0	0.37	61.8	0.005	<1	1.25	0.001	0.04	0.6	2.0	0.07	<0.02	25	0.9	0.05	3.6	2.68	<0.1	0.04
SV-28	Soil	30.7	23.2	0.34	103.3	0.005	1	0.89	0.002	0.08	0.5	3.7	0.04	<0.02	26	0.5	0.02	2.7	1.98	<0.1	0.03
SV-29	Soil	34.2	43.2	0.43	136.5	0.020	2	0.92	0.005	0.07	0.4	6.8	0.06	<0.02	35	0.6	0.03	2.8	1.56	<0.1	0.04
SV-30	Soil	30.6	31.5	0.34	96.3	0.008	1	0.99	0.003	0.05	0.4	2.6	0.05	<0.02	34	0.8	0.02	2.8	1.84	<0.1	0.02
SV-31	Soil	18.0	213.6	1.82	94.0	0.007	3	0.72	0.004	0.09	0.7	3.4	0.06	0.03	28	0.4	<0.02	2.0	1.93	<0.1	0.04
SV-32	Soil	20.8	76.6	0.78	371.0	0.012	2	1.17	0.005	0.07	0.6	4.4	0.10	<0.02	46	0.4	<0.02	3.4	2.58	<0.1	0.03
SV-33	Soil	21.6	145.6	1.37	98.2	0.008	3	0.78	0.004	0.08	0.4	2.9	0.06	<0.02	25	0.2	0.02	2.3	2.17	<0.1	<0.02
SV-34	Soil	17.5	312.1	2.48	109.9	0.006	4	0.86	0.003	0.09	0.3	2.8	0.07	<0.02	21	0.2	0.05	2.4	2.01	<0.1	<0.02

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Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
SV-5	Soil	0.38	9.8	0.9	<0.05	1.3	9.00	66.7	0.02	<1	0.4	15.3	<10	<2
SV-6	Soil	0.19	6.4	0.8	<0.05	1.8	9.60	54.1	0.04	<1	0.4	9.1	<10	<2
SV-7	Soil	0.15	5.7	3.9	<0.05	1.5	12.84	46.2	0.03	2	0.4	5.7	<10	<2
SV-8	Soil	0.15	7.0	1.1	<0.05	1.3	8.09	32.1	<0.02	<1	0.4	15.5	<10	<2
SV-9	Soil	0.07	4.3	1.6	<0.05	0.3	3.68	10.6	<0.02	<1	<0.1	5.3	<10	<2
SV-10	Soil	0.23	4.3	2.1	<0.05	2.7	11.30	51.3	0.02	<1	0.5	17.8	<10	<2
SV-11	Soil	0.11	5.6	3.0	<0.05	1.0	5.47	53.1	0.04	<1	0.4	18.9	<10	<2
SV-12	Soil	0.25	8.9	0.9	<0.05	0.6	5.50	53.8	0.02	<1	0.5	11.5	<10	2
SV-13	Soil	0.13	9.0	2.2	<0.05	0.7	4.00	61.5	0.02	<1	0.4	11.4	15	<2
SV-14	Soil	0.58	14.9	1.7	<0.05	0.5	8.57	55.2	0.03	1	0.4	16.0	<10	<2
SV-15	Soil	0.11	17.1	2.2	<0.05	0.4	3.38	49.5	<0.02	<1	0.5	10.8	<10	<2
SV-16	Soil	0.11	9.4	1.2	<0.05	0.2	3.57	35.2	<0.02	<1	0.1	10.0	<10	<2
SV-17	Soil	0.13	10.5	2.5	<0.05	0.6	4.58	38.7	0.03	<1	0.3	11.8	<10	<2
SV-18	Soil	0.10	7.9	0.8	<0.05	0.5	2.93	36.6	<0.02	<1	0.3	10.5	<10	<2
SV-19	Soil	0.12	4.9	8.0	<0.05	8.9	4.67	61.5	<0.02	<1	0.3	23.3	<10	<2
SV-20	Soil	0.13	8.2	0.7	<0.05	0.5	5.72	49.7	<0.02	<1	0.4	17.9	<10	<2
SV-21	Soil	0.11	7.1	3.1	<0.05	0.7	4.35	53.3	0.02	<1	0.3	18.5	<10	<2
SV-22	Soil	0.21	10.7	1.0	<0.05	1.2	9.57	55.3	<0.02	<1	0.7	18.4	<10	<2
SV-23	Soil	0.14	6.3	2.4	<0.05	1.3	7.39	73.3	<0.02	<1	0.5	26.5	<10	<2
SV-24	Soil	0.13	7.7	0.9	<0.05	1.3	4.16	44.3	<0.02	<1	0.4	24.7	<10	<2
SV-25	Soil	0.16	8.7	0.4	<0.05	0.5	7.34	54.9	0.03	1	0.5	11.4	<10	<2
SV-26	Soil	0.09	9.9	1.7	<0.05	0.5	3.85	46.0	<0.02	<1	0.5	8.2	<10	<2
SV-27	Soil	0.18	8.8	0.3	<0.05	1.2	4.53	53.2	0.03	<1	0.4	18.4	<10	<2
SV-28	Soil	0.10	6.3	1.0	<0.05	2.8	9.55	58.8	0.02	<1	0.6	16.4	<10	<2
SV-29	Soil	0.26	5.9	0.5	<0.05	2.8	10.78	61.7	0.03	<1	0.2	14.2	<10	<2
SV-30	Soil	0.22	8.9	0.7	<0.05	1.2	7.15	60.7	0.02	<1	0.4	16.0	<10	<2
SV-31	Soil	0.18	10.4	0.2	<0.05	1.3	8.04	35.9	<0.02	<1	0.4	15.2	<10	<2
SV-32	Soil	0.61	9.8	2.8	<0.05	0.9	10.57	38.8	0.03	<1	0.6	19.5	<10	<2
SV-33	Soil	0.18	8.9	0.2	<0.05	0.8	10.50	43.6	0.02	<1	0.4	16.3	<10	<2
SV-34	Soil	0.13	8.8	2.3	<0.05	0.4	7.31	35.8	<0.02	<1	0.3	15.5	<10	<2

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Project: RIVIER
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CERTIFICATE OF ANALYSIS WHI13000410.1

		Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
SV-35	Soil		1.29	25.10	19.77	125.8	324	124.2	18.7	616	3.20	170.7	1.6	10.7	6.1	20.2	1.20	3.00	0.40	22	0.34	0.143
SV-36	Soil		1.98	60.47	33.44	150.3	2871	83.1	23.0	623	4.72	1103	2.1	176.5	6.0	32.0	0.87	14.14	0.41	16	0.46	0.116
SV-37	Soil		1.08	34.03	19.58	75.3	1277	38.9	13.1	556	3.14	511.6	0.9	72.6	1.3	20.4	0.34	5.64	0.28	17	0.31	0.080
SV-38	Soil		1.44	41.66	39.66	102.8	307	46.5	29.8	1876	4.66	479.8	0.9	33.4	5.0	9.2	0.23	4.25	0.46	20	0.05	0.059
SV-39	Soil		1.70	31.32	21.45	79.5	447	54.2	12.7	438	3.98	628.7	0.7	42.2	1.9	5.5	0.29	8.65	0.27	21	0.03	0.062
SV-40	Soil		1.47	62.31	33.22	129.6	2285	79.4	29.5	692	4.91	1232	1.3	162.5	13.7	20.0	0.65	13.64	0.34	16	0.38	0.103
SV-41	Soil		1.78	66.43	29.79	191.3	1940	68.5	30.2	841	6.00	1370	1.6	170.9	11.1	15.9	0.70	12.96	0.46	14	0.11	0.081
SV-42	Soil		6.52	73.83	15.64	147.8	1029	72.0	40.1	1500	4.32	183.6	2.2	16.4	26.0	25.6	2.32	12.21	0.22	5	0.09	0.074
SV-43	Soil		1.48	14.27	10.08	32.5	695	8.4	5.0	273	1.43	193.1	0.5	16.3	0.2	5.5	0.12	2.56	0.13	8	0.03	0.046
SV-44	Soil		3.88	69.40	31.42	109.7	1816	44.3	14.2	436	5.67	710.2	1.6	71.9	1.7	30.8	0.49	7.05	0.42	20	0.04	0.126
SV-45	Soil		0.74	13.90	18.66	92.3	204	11.8	6.7	455	1.83	55.3	1.2	4.1	1.5	18.4	0.74	0.23	0.26	15	0.34	0.120
SV-46	Soil		0.65	15.14	17.79	161.9	237	14.8	7.3	252	2.55	68.4	1.1	4.3	5.9	19.0	1.29	0.30	0.32	17	0.31	0.136
SV-47	Soil		0.83	28.58	19.16	140.0	733	38.9	10.9	344	2.81	115.9	1.4	9.9	2.1	18.4	0.97	1.49	0.32	19	0.31	0.143
SV-48	Soil		0.80	11.03	15.18	114.1	211	35.1	8.5	316	2.91	109.2	0.9	6.8	2.1	16.1	0.48	1.25	0.30	22	0.32	0.125
SV-49	Soil		1.09	14.32	13.83	81.9	316	23.9	6.4	456	2.54	171.0	1.0	10.5	1.1	14.6	0.31	1.31	0.30	19	0.22	0.137
SV-50	Soil		1.24	20.17	18.07	76.1	315	31.6	11.0	527	3.19	336.7	1.1	37.6	2.5	7.6	0.53	2.22	0.28	22	0.10	0.093
SV-51	Soil		1.38	28.04	28.27	102.7	489	34.2	13.5	741	3.54	327.9	1.7	40.3	5.4	21.3	0.75	2.36	0.30	21	0.32	0.107
SV-52	Soil		2.19	20.86	23.70	87.3	197	31.0	15.0	979	3.74	358.9	1.0	9.1	0.6	11.7	0.44	2.51	0.30	28	0.14	0.107
SV-53	Soil		1.60	42.41	24.55	140.5	482	61.6	20.6	925	3.66	278.9	1.7	571.8	9.0	14.1	1.33	3.08	0.38	22	0.23	0.137
SV-54	Soil		1.97	25.10	29.90	90.4	297	38.2	15.8	1055	4.14	485.0	1.0	12.1	0.7	7.7	0.44	4.96	0.33	22	0.06	0.108
SV-55	Soil		1.37	58.00	15.12	69.7	944	347.5	26.8	465	3.60	484.1	1.0	28.2	12.7	86.2	0.32	25.26	0.21	19	2.61	0.095
SV-56	Soil		1.12	42.03	22.76	81.1	716	227.8	24.1	641	3.93	458.8	1.2	29.3	5.0	29.0	0.19	16.19	0.33	41	0.30	0.110
SV-57	Soil		0.61	16.57	9.52	43.3	468	542.9	27.8	380	2.67	317.9	0.5	12.1	2.1	15.7	0.21	36.36	0.11	23	0.19	0.035
SV-58	Soil		0.91	25.29	16.95	65.8	457	143.3	15.8	528	2.95	195.6	1.0	7.7	3.3	38.0	0.24	8.08	0.22	22	0.56	0.127
SV-59	Soil		1.25	17.78	16.14	65.1	144	36.0	11.4	396	2.83	96.7	1.1	12.4	3.6	13.1	0.33	1.09	0.27	24	0.20	0.083
SV-60	Soil		1.19	24.57	24.47	126.7	750	56.9	13.0	501	3.03	236.2	2.2	15.2	3.1	16.1	0.60	2.58	0.26	23	0.25	0.098
SV-61	Soil		1.09	26.07	23.03	139.9	277	48.1	15.7	725	3.10	87.3	2.1	27.2	2.5	34.0	1.47	0.95	0.30	21	0.62	0.134
SV-62	Soil		2.44	55.57	26.62	153.0	470	101.2	24.2	1237	4.93	263.3	2.0	28.8	11.0	19.0	1.49	4.04	0.28	27	0.31	0.132
SV-63	Soil		1.57	24.93	31.08	287.2	244	23.6	15.4	1112	3.52	335.1	2.1	16.1	8.2	16.5	3.21	0.57	0.36	21	0.31	0.149
SV-64	Soil		1.24	16.69	30.33	125.6	171	19.8	11.4	569	2.80	92.9	1.6	6.9	0.7	18.8	1.18	0.46	0.37	24	0.34	0.136

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Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
SV-35	Soil	23.7	85.1	0.83	86.1	0.009	3	0.71	0.002	0.11	0.4	3.2	0.06	<0.02	22	0.2	<0.02	2.3	1.82	<0.1	0.02
SV-36	Soil	29.1	25.9	0.29	84.0	0.005	3	0.66	0.005	0.06	1.8	3.5	0.06	0.05	43	1.0	0.05	1.9	2.36	0.1	0.04
SV-37	Soil	16.7	21.4	0.27	84.2	0.006	<1	0.73	0.016	0.06	0.5	1.7	0.05	0.03	33	0.4	0.05	2.5	1.88	<0.1	<0.02
SV-38	Soil	28.2	26.5	0.43	84.9	0.005	1	1.18	0.002	0.05	0.4	1.8	0.07	<0.02	15	0.3	0.02	4.0	2.38	<0.1	<0.02
SV-39	Soil	23.3	25.3	0.16	54.1	0.004	2	0.71	0.005	0.05	1.0	2.0	0.09	<0.02	18	0.2	<0.02	2.8	2.32	<0.1	<0.02
SV-40	Soil	34.0	19.3	0.22	95.9	0.007	4	0.55	0.004	0.07	0.7	4.7	0.07	0.03	29	0.3	0.06	1.5	2.76	<0.1	0.04
SV-41	Soil	42.7	16.4	0.17	104.0	0.006	3	0.57	0.003	0.07	0.8	4.4	0.08	<0.02	28	0.6	0.05	1.7	3.09	<0.1	<0.02
SV-42	Soil	34.2	5.7	0.07	80.2	0.001	2	0.20	0.003	0.06	0.7	4.1	0.05	<0.02	28	0.3	<0.02	0.6	3.48	<0.1	0.08
SV-43	Soil	8.8	5.5	0.05	33.5	0.005	1	0.43	0.024	0.03	2.7	0.5	0.04	0.02	19	0.4	0.02	2.2	0.99	<0.1	<0.02
SV-44	Soil	20.2	26.8	0.25	128.0	0.005	1	0.94	0.007	0.09	0.6	1.4	0.09	0.15	39	2.7	0.06	2.9	2.03	<0.1	0.02
SV-45	Soil	14.1	10.9	0.23	178.4	0.004	2	0.92	0.013	0.10	0.1	1.4	0.08	0.04	20	0.3	<0.02	2.7	1.78	<0.1	0.05
SV-46	Soil	27.4	16.6	0.35	126.3	0.004	2	0.93	0.002	0.11	0.2	2.1	0.08	<0.02	18	0.2	<0.02	2.7	3.63	0.1	0.04
SV-47	Soil	16.2	28.4	0.30	157.9	0.004	2	1.23	0.009	0.08	0.2	2.1	0.09	0.07	28	0.9	<0.02	3.2	3.85	<0.1	0.08
SV-48	Soil	17.2	40.6	0.34	171.4	0.004	2	1.22	0.002	0.06	0.3	2.1	0.09	0.04	8	0.4	<0.02	3.7	4.92	<0.1	0.05
SV-49	Soil	17.6	25.4	0.31	179.1	0.003	2	1.21	0.004	0.06	0.2	1.1	0.10	0.04	12	0.3	<0.02	3.6	2.06	<0.1	0.03
SV-50	Soil	25.2	25.9	0.27	62.0	0.004	2	1.07	0.001	0.07	0.3	1.5	0.10	<0.02	21	0.3	0.02	3.3	2.23	<0.1	<0.02
SV-51	Soil	27.2	24.9	0.34	182.3	0.005	2	1.03	0.002	0.09	0.3	2.9	0.10	<0.02	28	0.2	0.03	2.8	2.15	<0.1	<0.02
SV-52	Soil	17.8	23.8	0.23	130.0	0.004	2	0.89	0.004	0.08	0.4	0.9	0.10	0.02	17	0.2	<0.02	3.7	2.21	<0.1	<0.02
SV-53	Soil	27.8	35.6	0.41	86.7	0.012	2	0.83	0.004	0.13	0.4	3.8	0.07	<0.02	26	0.3	<0.02	2.6	2.30	<0.1	<0.02
SV-54	Soil	19.2	30.4	0.20	82.7	0.003	<1	0.70	0.005	0.07	0.4	0.7	0.08	0.03	17	0.5	0.03	3.0	2.00	<0.1	0.03
SV-55	Soil	21.0	60.5	1.18	107.3	0.008	2	0.60	0.005	0.10	0.5	4.8	0.14	<0.02	56	0.2	0.02	1.9	3.26	<0.1	0.08
SV-56	Soil	17.7	106.4	0.90	374.5	0.008	2	1.46	0.009	0.10	0.5	6.4	0.23	0.05	94	0.4	0.03	4.4	3.35	<0.1	0.13
SV-57	Soil	10.3	212.1	1.28	103.3	0.014	4	0.61	0.024	0.06	0.7	4.3	0.23	<0.02	121	0.3	<0.02	2.1	1.67	<0.1	<0.02
SV-58	Soil	17.5	68.1	0.57	218.9	0.007	1	0.94	0.012	0.09	0.4	3.6	0.12	0.04	55	0.1	0.03	3.0	1.84	<0.1	0.07
SV-59	Soil	31.5	35.7	0.48	114.4	0.009	<1	1.08	0.004	0.12	0.2	2.0	0.10	<0.02	13	<0.1	<0.02	3.6	2.12	<0.1	0.02
SV-60	Soil	27.2	49.5	0.35	164.9	0.008	1	0.99	0.007	0.13	0.4	3.0	0.09	0.03	29	0.5	<0.02	2.8	5.41	<0.1	0.02
SV-61	Soil	25.2	34.2	0.52	94.9	0.007	2	0.91	0.006	0.15	0.2	2.5	0.08	0.05	25	1.2	<0.02	3.0	6.49	<0.1	<0.02
SV-62	Soil	36.7	64.0	0.50	123.5	0.010	1	0.91	0.004	0.12	0.7	7.2	0.07	<0.02	26	0.4	0.02	3.0	2.47	<0.1	0.04
SV-63	Soil	27.5	16.1	0.40	109.0	0.007	<1	0.84	0.003	0.18	0.1	4.1	0.10	<0.02	16	0.5	<0.02	2.8	2.95	<0.1	<0.02
SV-64	Soil	21.5	20.0	0.35	97.2	0.005	<1	0.86	0.007	0.15	0.2	1.1	0.11	0.02	16	0.4	0.02	2.7	2.87	<0.1	<0.02

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Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
SV-35	Soil	0.21	9.3	0.2	<0.05	1.2	13.74	49.9	<0.02	<1	0.4	19.6	<10	<2
SV-36	Soil	0.17	7.8	1.0	<0.05	1.4	10.65	53.9	0.03	<1	0.5	10.0	<10	<2
SV-37	Soil	0.17	7.5	0.6	<0.05	0.3	5.68	31.2	0.02	<1	0.6	9.5	<10	<2
SV-38	Soil	0.18	7.2	3.8	<0.05	0.8	3.55	56.2	<0.02	<1	0.2	19.3	<10	<2
SV-39	Soil	0.20	9.9	0.7	<0.05	0.6	3.91	45.5	<0.02	<1	0.3	5.2	<10	<2
SV-40	Soil	0.25	6.5	0.8	<0.05	2.9	12.41	64.9	0.02	<1	0.6	6.7	<10	<2
SV-41	Soil	0.13	7.4	0.4	<0.05	0.5	16.27	78.6	0.04	<1	0.6	6.0	<10	<2
SV-42	Soil	0.03	4.9	1.4	<0.05	8.2	8.54	60.0	0.03	<1	0.3	1.1	<10	2
SV-43	Soil	0.09	4.8	0.4	<0.05	0.1	1.35	17.5	<0.02	<1	0.1	1.7	<10	<2
SV-44	Soil	0.11	8.3	1.1	<0.05	0.9	4.76	39.4	0.02	<1	0.3	11.0	<10	<2
SV-45	Soil	0.31	13.7	0.4	<0.05	1.8	10.53	26.0	<0.02	<1	0.4	13.6	<10	<2
SV-46	Soil	0.21	16.6	2.0	<0.05	1.5	11.19	53.6	0.02	<1	0.4	20.3	<10	<2
SV-47	Soil	0.37	18.6	0.4	<0.05	2.5	15.00	29.9	0.02	<1	0.8	18.6	<10	<2
SV-48	Soil	0.39	17.5	1.2	<0.05	1.3	5.74	33.7	0.03	<1	0.8	16.7	<10	<2
SV-49	Soil	0.20	18.0	0.5	<0.05	1.2	5.16	35.2	<0.02	<1	0.5	19.3	<10	<2
SV-50	Soil	0.23	14.9	0.8	<0.05	0.4	5.67	51.9	0.02	<1	0.4	15.7	<10	2
SV-51	Soil	0.20	14.4	0.5	<0.05	0.6	11.86	57.5	0.03	<1	0.8	23.6	<10	<2
SV-52	Soil	0.13	14.4	6.5	<0.05	0.2	4.30	40.3	<0.02	<1	0.5	12.4	<10	<2
SV-53	Soil	0.24	10.8	0.8	<0.05	1.0	11.79	54.4	0.04	<1	0.7	21.1	13	<2
SV-54	Soil	0.10	12.3	5.2	<0.05	0.5	4.46	38.2	<0.02	<1	0.5	6.7	<10	<2
SV-55	Soil	0.17	8.0	1.7	<0.05	6.4	8.08	43.5	0.04	<1	0.3	8.2	<10	<2
SV-56	Soil	0.76	17.4	3.0	<0.05	3.5	10.25	35.3	0.03	<1	0.8	13.8	<10	<2
SV-57	Soil	0.39	7.2	1.3	<0.05	0.5	3.92	19.1	<0.02	<1	0.5	6.7	<10	3
SV-58	Soil	0.56	12.4	5.1	<0.05	2.1	7.26	35.1	0.02	<1	0.9	15.4	<10	3
SV-59	Soil	0.23	15.0	0.6	<0.05	0.6	6.75	63.9	<0.02	<1	0.2	21.5	<10	<2
SV-60	Soil	0.29	15.5	3.0	<0.05	0.9	15.45	55.7	<0.02	<1	0.8	22.7	<10	<2
SV-61	Soil	0.23	14.9	0.9	<0.05	0.5	14.31	50.4	<0.02	<1	0.7	23.4	<10	<2
SV-62	Soil	0.20	11.0	0.5	<0.05	2.9	15.96	69.2	0.03	<1	0.7	18.9	<10	<2
SV-63	Soil	0.18	13.0	0.9	<0.05	0.6	25.96	55.8	0.03	<1	1.0	32.4	<10	<2
SV-64	Soil	0.08	17.3	1.3	<0.05	0.4	10.84	44.9	0.02	<1	0.6	22.1	<10	<2

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Project: RIVIER
Report Date: September 24, 2013

CERTIFICATE OF ANALYSIS WHI13000410.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
SV-65	Soil	1.30	30.15	43.31	205.2	234	40.7	15.4	673	3.24	88.9	1.6	6.9	8.5	15.0	1.63	0.61	0.29	30	0.24	0.140
SV-66	Soil	1.25	14.03	23.73	96.8	105	13.2	7.2	318	2.43	104.4	1.5	6.9	1.7	10.7	0.63	0.37	0.30	21	0.19	0.120
SV-67	Soil	1.07	22.22	18.18	69.5	226	59.5	10.6	369	2.85	122.8	1.1	5.8	7.2	16.7	0.19	2.57	0.19	27	0.25	0.062
SV-68	Soil	0.83	24.07	14.26	56.1	316	33.9	10.2	355	2.56	183.7	1.0	11.6	1.7	14.2	0.25	1.02	0.19	24	0.24	0.076
SV-69	Soil	1.24	23.02	19.07	120.6	146	37.0	13.5	566	2.77	132.7	1.5	12.8	6.8	21.4	1.04	0.90	0.25	27	0.40	0.110
SV-70	Soil	0.86	85.02	22.95	161.7	3527	169.6	62.1	1290	9.49	9066	2.3	1107	10.1	65.0	0.72	14.82	0.20	23	0.94	0.112
SV-71	Soil	1.69	14.42	21.27	90.3	48	18.9	12.5	527	2.74	102.9	1.9	4.9	6.9	19.6	0.37	0.44	0.28	22	0.32	0.124
SV-72	Soil	1.33	13.31	24.59	104.2	49	26.8	13.4	560	3.03	122.5	1.7	9.5	2.5	17.4	0.91	0.90	0.32	23	0.30	0.175
SV-73	Soil	1.08	32.63	24.38	158.5	320	50.8	17.1	656	3.28	87.7	4.2	12.0	4.0	25.0	1.69	1.00	0.35	23	0.47	0.142
SV-74	Soil	1.59	19.07	34.57	228.9	106	17.4	15.0	915	3.67	330.9	1.6	5.5	3.1	15.3	2.13	0.51	0.48	23	0.28	0.115
SV-75	Soil	1.32	15.75	28.72	163.5	190	32.6	13.0	413	2.98	119.3	2.0	6.1	6.5	22.6	1.63	0.61	0.36	21	0.42	0.183
SV-76	Soil	1.48	14.99	28.83	93.5	108	22.8	12.6	883	2.95	81.0	1.6	2.0	0.7	9.7	0.99	0.45	0.35	25	0.14	0.145
SV-77	Soil	1.83	20.57	24.99	113.6	122	25.1	15.7	796	2.93	103.4	1.4	2.0	1.3	16.1	0.82	0.58	0.34	22	0.24	0.144
SV-78	Soil	1.31	22.25	20.86	92.4	252	35.9	13.5	557	3.26	99.1	1.6	6.3	7.0	13.8	0.44	1.14	0.30	30	0.22	0.099
SV-79	Soil	1.10	21.33	19.97	79.9	140	60.8	18.3	613	3.12	74.4	1.7	3.8	7.6	15.3	0.45	0.94	0.26	27	0.24	0.110
SV-80	Soil	1.09	8.41	13.37	52.7	138	14.1	6.5	212	1.93	56.1	1.0	2.4	0.9	11.9	0.24	0.40	0.38	25	0.15	0.078
SV-81	Soil	1.17	23.21	17.87	82.9	118	57.8	17.4	600	3.09	76.0	1.6	4.3	7.1	15.2	0.47	1.14	0.28	37	0.26	0.096
SV-82	Soil	1.09	22.16	19.14	80.0	170	80.8	16.4	575	2.95	139.0	1.6	8.4	5.5	16.3	0.51	2.04	0.24	31	0.25	0.082
SV-83	Soil	1.16	22.39	18.58	89.0	324	43.2	14.1	522	2.75	90.0	1.4	3.9	5.0	16.0	0.50	1.81	0.22	30	0.26	0.096
SV-84	Soil	3.56	81.10	31.11	147.1	1305	78.6	22.3	479	4.25	209.3	2.8	38.9	4.8	39.2	1.09	6.99	0.31	37	0.47	0.187
SV-85	Soil	2.31	48.33	25.69	134.3	854	136.8	22.7	835	4.11	202.0	2.0	20.0	4.2	30.9	1.31	4.98	0.29	28	0.45	0.148
SV-86	Soil	1.37	21.74	13.25	91.8	316	69.0	12.9	372	2.70	124.2	0.9	14.8	6.8	22.3	0.41	5.31	0.20	33	0.30	0.090
SV-87	Soil	1.09	60.43	21.17	75.0	1881	129.6	18.8	520	3.49	1362	1.4	256.9	1.9	53.8	0.31	30.89	0.19	31	1.08	0.086
SV-88	Soil	0.65	88.66	16.27	67.4	1116	143.4	18.2	602	2.51	651.3	1.4	96.9	1.1	85.3	0.54	22.72	0.13	23	1.68	0.106
SV-89	Soil	1.19	21.72	16.23	121.0	250	50.4	12.6	707	2.76	117.0	0.5	15.7	2.3	12.9	0.62	8.26	0.19	33	0.22	0.081
SV-90	Soil	1.41	28.90	11.96	122.9	748	55.3	8.9	310	2.02	102.8	0.9	19.4	1.2	33.5	0.82	8.62	0.17	35	0.66	0.105
SV-91	Soil	1.21	23.00	12.86	92.9	366	54.7	9.9	347	1.91	81.9	0.6	12.6	1.4	35.1	0.87	4.90	0.14	32	0.78	0.107
REP 1115	Soil	1.35	63.77	12.00	109.7	489	317.3	41.3	465	4.82	343.3	0.6	26.0	5.3	22.0	0.42	19.37	0.16	39	0.36	0.073
REP 863	Soil	1.24	64.54	18.29	148.2	1839	128.5	30.1	522	4.38	857.3	2.7	164.3	9.6	14.9	2.22	7.53	0.29	8	0.23	0.082
REP 1299505	Soil	2.47	131.5	12.00	111.7	9085	553.5	59.5	2528	12.57	>10000	0.5	2262	1.8	124.7	0.48	89.40	0.29	24	0.78	0.101

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
SV-65	Soil	32.3	41.6	0.51	92.6	0.017	1	1.03	0.003	0.13	0.2	3.7	0.08	<0.02	23	0.3	<0.02	3.4	1.96	<0.1	<0.02
SV-66	Soil	24.7	15.6	0.26	70.4	0.004	<1	0.91	0.003	0.14	0.1	1.4	0.12	<0.02	13	0.2	<0.02	2.8	2.55	<0.1	<0.02
SV-67	Soil	31.3	43.5	0.51	203.5	0.008	<1	1.06	0.005	0.09	0.3	3.3	0.10	<0.02	16	0.1	<0.02	3.3	1.79	<0.1	<0.02
SV-68	Soil	21.2	36.4	0.36	156.0	0.008	<1	1.13	0.015	0.11	0.2	2.7	0.09	<0.02	16	0.2	<0.02	3.1	2.53	<0.1	<0.02
SV-69	Soil	29.5	29.5	0.44	135.2	0.017	1	0.96	0.008	0.15	0.2	3.1	0.10	<0.02	10	0.3	<0.02	3.0	2.58	<0.1	<0.02
SV-70	Soil	27.8	39.1	0.25	279.1	0.003	3	0.48	0.005	0.13	0.9	10.5	0.12	0.03	36	0.5	<0.02	1.5	10.31	0.1	0.03
SV-71	Soil	28.7	17.1	0.30	88.5	0.009	<1	0.87	0.003	0.13	0.2	1.9	0.11	<0.02	7	0.1	<0.02	2.5	2.89	<0.1	<0.02
SV-72	Soil	29.6	34.1	0.34	56.4	0.005	<1	0.84	0.003	0.12	0.2	1.8	0.08	<0.02	12	0.3	<0.02	2.7	3.27	<0.1	<0.02
SV-73	Soil	27.8	41.7	0.53	96.0	0.008	1	0.97	0.005	0.15	0.2	3.0	0.08	0.04	31	1.0	0.03	3.3	3.70	<0.1	<0.02
SV-74	Soil	25.0	13.8	0.33	119.9	0.007	<1	0.91	0.005	0.21	0.2	2.6	0.10	0.03	9	0.4	<0.02	2.7	3.25	<0.1	<0.02
SV-75	Soil	32.6	31.5	0.34	90.8	0.007	1	0.71	0.004	0.13	0.4	2.8	0.06	0.02	7	0.4	<0.02	2.4	1.97	0.1	<0.02
SV-76	Soil	19.5	20.6	0.26	78.2	0.003	<1	0.78	0.006	0.19	<0.1	0.6	0.09	0.04	13	0.2	<0.02	2.9	3.28	<0.1	<0.02
SV-77	Soil	27.7	19.3	0.25	77.8	0.006	<1	0.72	0.004	0.14	0.2	1.3	0.09	<0.02	21	0.6	<0.02	2.9	2.71	<0.1	<0.02
SV-78	Soil	31.5	37.4	0.49	123.0	0.017	<1	1.14	0.004	0.18	0.2	3.2	0.13	<0.02	22	0.1	<0.02	3.5	3.49	<0.1	<0.02
SV-79	Soil	32.7	59.9	0.67	94.6	0.023	<1	1.06	0.004	0.15	0.2	2.9	0.11	<0.02	13	0.2	<0.02	3.4	2.99	<0.1	<0.02
SV-80	Soil	20.9	17.6	0.26	76.3	0.012	<1	0.84	0.009	0.16	0.2	1.1	0.11	<0.02	13	0.2	0.03	3.2	2.78	<0.1	<0.02
SV-81	Soil	28.3	51.0	0.57	138.0	0.022	<1	1.12	0.004	0.15	0.2	3.8	0.13	<0.02	21	0.2	0.02	3.6	2.75	<0.1	<0.02
SV-82	Soil	29.2	59.3	0.55	145.1	0.015	1	1.06	0.004	0.14	0.2	3.5	0.12	<0.02	10	0.2	<0.02	3.4	2.51	<0.1	<0.02
SV-83	Soil	28.7	40.3	0.47	130.4	0.021	<1	1.04	0.004	0.13	0.3	3.2	0.12	<0.02	12	0.1	<0.02	3.6	2.82	<0.1	0.02
SV-84	Soil	31.1	59.2	0.63	137.3	0.022	<1	1.03	0.006	0.06	0.8	4.5	0.08	0.03	68	1.4	0.06	3.5	2.43	<0.1	<0.02
SV-85	Soil	27.7	98.6	1.02	171.5	0.011	2	0.93	0.007	0.11	0.5	3.7	0.08	0.04	37	0.8	0.02	3.0	2.64	<0.1	0.17
SV-86	Soil	24.5	49.7	0.61	257.2	0.023	<1	1.00	0.007	0.07	0.3	3.1	0.10	<0.02	40	0.3	0.02	3.2	1.15	<0.1	0.02
SV-87	Soil	13.2	63.5	0.49	316.7	0.003	3	1.01	0.010	0.09	0.6	8.2	0.15	0.07	157	0.6	0.06	2.5	5.86	<0.1	0.03
SV-88	Soil	12.8	54.7	0.66	245.6	0.005	3	0.98	0.014	0.07	0.4	7.9	0.09	0.11	153	0.8	0.03	2.2	4.79	<0.1	0.04
SV-89	Soil	12.5	29.4	0.37	229.4	0.010	3	0.87	0.004	0.07	0.3	3.4	0.12	0.02	27	0.4	0.05	3.1	1.91	<0.1	<0.02
SV-90	Soil	10.9	29.8	0.41	441.6	0.013	4	1.01	0.008	0.08	0.3	2.5	0.12	0.05	90	0.5	0.04	3.1	1.19	<0.1	0.05
SV-91	Soil	10.1	33.9	0.45	472.8	0.012	2	0.90	0.009	0.06	0.3	2.1	0.07	0.05	93	0.4	0.07	2.9	0.99	<0.1	0.06
REP 1115	Soil	15.8	102.8	0.77	142.3	0.010	3	0.98	0.003	0.08	0.4	8.6	0.12	<0.02	52	0.5	<0.02	3.0	3.65	<0.1	0.04
REP 863	Soil	23.5	19.4	0.10	178.0	0.001	2	0.35	<0.001	0.09	0.5	6.8	0.08	0.04	40	1.2	0.04	0.8	4.54	<0.1	0.06
REP 1299505	Soil	5.2	73.4	0.81	727.9	0.002	7	0.49	0.001	0.10	1.3	17.9	0.35	0.09	46	0.8	0.34	1.3	18.60	<0.1	0.04

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Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
SV-65	Soil	0.22	12.5	0.7	<0.05	1.0	14.59	64.6	0.02	<1	0.5	22.4	<10	<2
SV-66	Soil	0.16	15.0	0.8	<0.05	0.4	8.54	47.4	<0.02	<1	0.6	19.0	<10	<2
SV-67	Soil	0.44	14.5	0.9	<0.05	0.6	7.26	56.2	<0.02	<1	0.6	20.0	<10	<2
SV-68	Soil	0.21	13.4	1.7	<0.05	0.4	8.15	42.9	0.02	<1	0.5	17.3	<10	<2
SV-69	Soil	0.42	13.9	0.9	<0.05	0.9	12.33	56.6	<0.02	<1	0.5	22.8	<10	<2
SV-70	Soil	0.15	10.6	1.2	<0.05	3.0	16.95	54.9	0.06	<1	0.8	7.2	<10	3
SV-71	Soil	0.28	12.5	0.4	<0.05	0.3	10.38	61.0	<0.02	<1	1.1	20.6	<10	<2
SV-72	Soil	0.11	12.9	0.7	<0.05	0.8	11.10	59.6	<0.02	<1	0.6	19.4	<10	<2
SV-73	Soil	0.24	14.1	0.8	<0.05	0.8	16.16	54.4	0.03	<1	0.5	23.4	<10	<2
SV-74	Soil	0.19	15.0	3.6	<0.05	0.4	15.61	51.0	<0.02	<1	0.9	30.0	<10	<2
SV-75	Soil	0.19	11.2	1.0	<0.05	0.5	16.81	63.8	0.03	<1	0.6	21.1	<10	<2
SV-76	Soil	0.10	18.8	3.6	<0.05	0.4	7.53	39.4	<0.02	<1	0.6	12.7	<10	<2
SV-77	Soil	0.18	14.8	0.5	<0.05	0.7	10.49	57.3	<0.02	<1	0.5	14.0	<10	<2
SV-78	Soil	0.36	18.0	1.5	<0.05	0.7	11.72	64.3	<0.02	<1	0.7	27.8	<10	3
SV-79	Soil	0.27	15.0	0.3	<0.05	0.6	11.73	60.0	<0.02	<1	0.7	26.5	<10	<2
SV-80	Soil	0.24	19.8	1.3	<0.05	0.2	5.76	42.7	<0.02	1	0.4	15.3	<10	<2
SV-81	Soil	0.45	15.6	0.6	<0.05	0.6	11.37	57.7	<0.02	<1	0.9	29.8	<10	<2
SV-82	Soil	0.33	14.8	1.1	<0.05	0.2	10.18	59.1	<0.02	<1	0.8	24.1	<10	<2
SV-83	Soil	0.19	16.4	0.4	<0.05	0.4	9.49	55.8	<0.02	<1	0.6	21.7	<10	<2
SV-84	Soil	0.58	8.8	1.1	<0.05	0.5	11.35	59.2	0.03	3	0.5	17.5	<10	3
SV-85	Soil	0.28	9.1	0.6	<0.05	0.4	12.97	53.2	0.03	<1	0.7	18.2	<10	<2
SV-86	Soil	0.51	7.1	1.0	<0.05	1.3	7.64	49.0	<0.02	<1	0.5	17.0	<10	2
SV-87	Soil	0.35	12.5	1.0	<0.05	1.2	9.53	24.9	0.03	<1	0.5	11.3	<10	<2
SV-88	Soil	0.46	8.5	2.1	<0.05	2.1	12.87	20.6	<0.02	<1	0.8	10.1	<10	<2
SV-89	Soil	0.38	12.1	0.6	<0.05	0.6	4.85	23.8	0.03	<1	0.4	13.8	<10	<2
SV-90	Soil	0.63	12.9	1.0	<0.05	1.6	8.17	20.6	<0.02	1	0.4	11.9	<10	<2
SV-91	Soil	0.52	7.2	0.8	<0.05	2.2	5.43	20.1	<0.02	2	0.3	13.0	<10	<2
REP 1115	Soil	0.59	9.6	0.5	<0.05	2.3	9.49	31.6	0.03	<1	1.1	12.4	11	2
REP 863	Soil	0.11	6.8	0.2	<0.05	2.6	16.21	46.3	0.04	<1	0.7	2.1	<10	<2
REP 1299505	Soil	0.06	9.2	0.5	<0.05	1.7	14.46	12.0	0.06	2	1.6	4.5	25	6

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Project: RIVIER
Report Date: September 24, 2013

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
1348608	Silt	0.65	10.80	18.29	188.2	215	32.4	10.1	307	2.34	68.0	0.8	3.6	4.7	20.3	1.93	0.73	0.24	17	0.37	0.145
REP 1348608	QC	0.70	11.74	17.65	170.1	222	35.3	9.7	316	2.36	70.9	0.9	3.7	5.0	21.6	2.03	0.82	0.23	16	0.37	0.164
1348616	Silt	1.35	42.23	27.25	178.8	1449	93.7	19.4	1102	4.00	610.7	1.2	100.6	2.3	37.1	1.79	7.02	0.28	17	0.68	0.136
REP 1348616	QC	1.39	42.17	26.36	186.9	1491	91.3	20.3	1094	3.97	624.0	1.3	142.8	2.2	37.5	1.73	6.81	0.28	17	0.69	0.136
KS-30	Soil	1.81	31.33	18.39	66.1	108	92.4	14.8	391	2.78	226.9	0.9	3.6	6.3	11.3	0.21	3.03	0.20	25	0.17	0.045
REP KS-30	QC	1.69	29.42	17.26	60.5	83	88.8	14.6	327	2.83	225.8	0.9	4.3	6.3	10.6	0.18	2.92	0.19	24	0.16	0.042
KS-33	Soil	1.72	16.46	74.94	62.1	75	46.4	10.1	329	2.84	161.5	0.8	1.9	7.1	13.9	0.36	1.24	0.13	21	0.19	0.106
REP KS-33	QC	1.74	16.05	76.51	66.2	72	45.3	9.3	350	2.86	167.2	0.8	1.8	7.2	14.1	0.35	1.23	0.13	21	0.19	0.105
SV-18	Soil	1.13	31.80	17.82	72.1	329	40.2	18.8	757	3.45	216.5	0.8	22.3	0.6	5.9	0.20	2.04	0.32	15	0.05	0.070
REP SV-18	QC	1.13	31.00	17.27	66.4	307	39.8	17.7	730	3.48	215.3	0.8	24.6	0.7	6.3	0.18	1.93	0.31	16	0.04	0.070
SV-21	Soil	1.44	45.28	29.36	94.0	300	49.9	24.7	898	4.44	205.6	1.3	32.0	2.8	8.7	0.25	2.57	0.41	18	0.07	0.083
REP SV-21	QC	1.39	43.80	28.31	96.9	284	49.5	23.8	906	4.42	206.1	1.3	34.2	2.7	8.9	0.23	2.49	0.40	18	0.08	0.080
SV-53	Soil	1.60	42.41	24.55	140.5	482	61.6	20.6	925	3.66	278.9	1.7	571.8	9.0	14.1	1.33	3.08	0.38	22	0.23	0.137
REP SV-53	QC	1.66	41.12	24.98	148.0	434	63.1	18.7	929	3.70	279.0	1.7	38.6	9.1	15.8	1.35	3.15	0.28	22	0.23	0.121
SV-57	Soil	0.61	16.57	9.52	43.3	468	542.9	27.8	380	2.67	317.9	0.5	12.1	2.1	15.7	0.21	36.36	0.11	23	0.19	0.035
REP SV-57	QC	0.67	15.63	9.93	42.2	451	544.4	30.0	354	2.66	324.2	0.6	10.8	2.3	15.5	0.21	35.84	0.10	23	0.17	0.035
SV-89	Soil	1.19	21.72	16.23	121.0	250	50.4	12.6	707	2.76	117.0	0.5	15.7	2.3	12.9	0.62	8.26	0.19	33	0.22	0.081
REP SV-89	QC	1.18	21.26	15.97	122.2	244	48.6	13.2	726	2.81	114.5	0.4	15.1	2.3	13.2	0.60	8.07	0.18	33	0.23	0.083
Reference Materials																					
STD DS9	Standard	12.91	106.4	126.9	311.3	1829	41.3	7.8	591	2.35	25.8	2.4	120.9	5.8	63.3	2.31	4.82	5.86	41	0.73	0.083
STD DS9	Standard	13.54	118.0	124.5	343.1	1940	41.5	7.4	647	2.38	28.6	3.0	122.5	7.0	78.1	2.59	5.94	6.72	41	0.74	0.087
STD DS9	Standard	14.21	114.3	127.1	312.5	1840	39.1	7.5	599	2.38	27.9	2.9	113.7	7.4	79.5	2.60	5.82	6.54	41	0.79	0.088
STD DS9	Standard	14.13	123.4	134.9	304.2	1874	40.8	7.3	617	2.37	27.7	2.9	114.9	7.8	75.1	2.53	6.00	6.96	42	0.76	0.084
STD DS9	Standard	14.57	114.5	134.0	345.7	1814	39.1	8.4	611	2.41	26.5	3.2	115.8	8.5	82.0	2.60	6.04	6.74	41	0.79	0.082
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.01	<0.01	0.03	<0.1	2	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.04	<0.1	<2	<0.1	<0.1	1	<0.01	0.5	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.06	<0.1	6	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	**La**	**Cr**	**Mg**	**Ba**	**Ti**	**B**	**Al**	**Na**	**K**	**W**	**Sc**	**Tl**	**S**	**Hg**	**Se**	**Te**	**Ga**	**Cs**	**Ge**	**Hf**
	Unit	**ppm**	**ppm**	**%**	**ppm**	**%**	**ppm**	**%**	**%**	**%**	**ppm**	**ppm**	**ppm**	**%**	**ppb**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
	MDL	**0.5**	**0.5**	**0.01**	**0.5**	**0.001**	**1**	**0.01**	**0.001**	**0.01**	**0.1**	**0.1**	**0.02**	**0.02**	**5**	**0.1**	**0.02**	**0.1**	**0.02**	**0.1**	**0.02**
Pulp Duplicates																					
1348608	Silt	22.6	27.1	0.30	78.5	0.005	<1	0.68	0.002	0.08	0.3	1.8	0.04	0.02	19	0.5	<0.02	2.1	2.46	<0.1	0.03
REP 1348608	QC	21.8	29.2	0.30	79.8	0.005	<1	0.68	0.002	0.08	0.2	1.8	0.04	0.02	13	0.4	0.02	1.9	2.49	<0.1	0.03
1348616	Silt	17.5	36.1	0.39	110.3	0.004	3	0.83	0.006	0.06	0.8	2.6	0.07	0.08	71	2.1	0.02	2.1	2.95	<0.1	0.04
REP 1348616	QC	17.2	37.7	0.39	112.1	0.004	2	0.85	0.006	0.07	0.6	2.6	0.07	0.08	72	2.1	0.06	2.3	3.01	<0.1	0.04
KS-30	Soil	24.9	139.0	0.68	278.4	0.006	2	0.71	0.002	0.05	0.3	2.2	0.08	<0.02	16	0.2	0.03	2.2	2.78	<0.1	<0.02
REP KS-30	QC	24.0	123.1	0.69	270.3	0.006	<1	0.72	0.002	0.05	0.3	2.1	0.08	<0.02	12	0.3	0.03	2.2	2.83	<0.1	<0.02
KS-33	Soil	33.2	57.2	0.41	143.1	0.010	<1	0.69	0.002	0.12	0.3	1.9	0.13	<0.02	18	0.5	<0.02	2.3	4.15	<0.1	<0.02
REP KS-33	QC	34.9	61.5	0.42	147.1	0.010	1	0.71	0.003	0.12	0.3	1.8	0.15	<0.02	18	0.4	<0.02	2.2	4.32	<0.1	<0.02
SV-18	Soil	18.8	19.9	0.22	61.6	0.005	<1	0.78	0.010	0.04	0.3	0.9	0.07	<0.02	19	0.2	0.04	2.6	2.03	<0.1	<0.02
REP SV-18	QC	18.3	19.6	0.21	56.0	0.005	<1	0.78	0.010	0.04	0.3	1.0	0.06	<0.02	17	0.3	0.02	2.7	2.01	<0.1	0.03
SV-21	Soil	26.7	26.4	0.34	61.5	0.005	2	1.02	0.005	0.05	0.3	1.7	0.05	<0.02	25	0.3	0.04	3.1	2.57	<0.1	<0.02
REP SV-21	QC	30.7	27.0	0.35	64.8	0.005	<1	1.04	0.005	0.05	0.3	1.9	0.05	<0.02	23	0.3	0.03	3.2	2.66	<0.1	<0.02
SV-53	Soil	27.8	35.6	0.41	86.7	0.012	2	0.83	0.004	0.13	0.4	3.8	0.07	<0.02	26	0.3	<0.02	2.6	2.30	<0.1	<0.02
REP SV-53	QC	28.3	35.3	0.42	85.1	0.013	<1	0.84	0.004	0.13	0.4	3.8	0.07	<0.02	29	0.3	<0.02	2.7	2.35	<0.1	0.03
SV-57	Soil	10.3	212.1	1.28	103.3	0.014	4	0.61	0.024	0.06	0.7	4.3	0.23	<0.02	121	0.3	<0.02	2.1	1.67	<0.1	<0.02
REP SV-57	QC	9.2	221.0	1.28	97.5	0.014	4	0.62	0.024	0.06	0.7	4.1	0.24	<0.02	136	<0.1	<0.02	2.2	1.53	<0.1	<0.02
SV-89	Soil	12.5	29.4	0.37	229.4	0.010	3	0.87	0.004	0.07	0.3	3.4	0.12	0.02	27	0.4	0.05	3.1	1.91	<0.1	<0.02
REP SV-89	QC	12.1	29.4	0.37	226.5	0.010	2	0.88	0.004	0.07	0.3	3.4	0.11	<0.02	31	0.3	0.05	3.0	1.82	<0.1	<0.02
Reference Materials																					
STD DS9	Standard	12.1	125.6	0.62	307.1	0.113	2	0.98	0.089	0.41	3.2	2.7	5.54	0.17	222	5.5	5.08	4.6	2.44	<0.1	0.09
STD DS9	Standard	14.0	121.6	0.63	315.6	0.110	4	0.99	0.090	0.40	3.2	2.8	5.63	0.16	204	5.8	4.94	4.8	2.53	0.1	0.10
STD DS9	Standard	16.1	123.9	0.63	325.2	0.122	2	1.03	0.097	0.42	3.2	2.8	5.39	0.16	227	5.6	5.34	5.1	2.50	<0.1	0.08
STD DS9	Standard	16.5	125.0	0.63	312.4	0.121	3	1.01	0.095	0.41	3.1	2.9	5.39	0.16	209	5.5	5.37	4.7	2.54	0.1	0.08
STD DS9	Standard	16.7	130.0	0.63	331.1	0.127	2	1.04	0.102	0.42	3.2	3.2	5.62	0.17	209	5.8	5.76	5.0	2.61	0.2	0.10
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	0.1	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
1348608	Silt	0.15	10.8	5.8	<0.05	1.2	12.67	46.9	<0.02	<1	0.5	18.5	<10	<2
REP 1348608	QC	0.15	11.1	4.5	<0.05	1.1	12.23	42.3	<0.02	<1	0.3	19.8	<10	<2
1348616	Silt	0.18	14.2	7.1	<0.05	1.2	11.72	35.8	<0.02	<1	0.4	11.4	<10	<2
REP 1348616	QC	0.18	14.4	5.0	<0.05	1.2	11.75	33.9	<0.02	<1	0.4	11.3	<10	<2
KS-30	Soil	0.30	7.6	0.8	<0.05	0.6	4.83	47.2	0.02	<1	0.2	8.9	<10	<2
REP KS-30	QC	0.40	7.2	0.8	<0.05	0.6	4.78	46.0	<0.02	<1	0.5	8.6	<10	<2
KS-33	Soil	0.32	10.2	4.3	<0.05	0.1	9.24	62.6	<0.02	<1	0.6	8.7	<10	<2
REP KS-33	QC	0.31	10.1	4.1	<0.05	0.1	9.19	65.5	<0.02	<1	0.6	9.6	<10	<2
SV-18	Soil	0.10	7.9	0.8	<0.05	0.5	2.93	36.6	<0.02	<1	0.3	10.5	<10	<2
REP SV-18	QC	0.07	7.5	0.8	<0.05	0.3	3.16	37.9	0.02	<1	0.2	11.2	<10	<2
SV-21	Soil	0.11	7.1	3.1	<0.05	0.7	4.35	53.3	0.02	<1	0.3	18.5	<10	<2
REP SV-21	QC	0.15	7.7	3.0	<0.05	0.5	4.36	57.7	<0.02	<1	0.3	18.4	<10	2
SV-53	Soil	0.24	10.8	0.8	<0.05	1.0	11.79	54.4	0.04	<1	0.7	21.1	13	<2
REP SV-53	QC	0.26	12.3	0.6	<0.05	1.1	12.63	57.2	0.02	<1	0.6	21.8	<10	<2
SV-57	Soil	0.39	7.2	1.3	<0.05	0.5	3.92	19.1	<0.02	<1	0.5	6.7	<10	3
REP SV-57	QC	0.35	5.8	1.2	<0.05	0.5	4.06	19.0	<0.02	<1	0.6	6.4	<10	<2
SV-89	Soil	0.38	12.1	0.6	<0.05	0.6	4.85	23.8	0.03	<1	0.4	13.8	<10	<2
REP SV-89	QC	0.40	11.8	0.5	<0.05	0.6	5.03	23.7	0.02	<1	0.2	13.7	<10	<2
Reference Materials														
STD DS9	Standard	1.44	34.9	6.4	<0.05	2.0	5.84	23.7	2.20	58	6.5	27.7	124	366
STD DS9	Standard	1.46	38.9	6.9	<0.05	2.2	6.70	26.1	2.41	55	5.7	25.9	114	365
STD DS9	Standard	1.44	35.8	7.1	<0.05	2.2	7.05	28.8	2.41	62	4.9	26.2	108	371
STD DS9	Standard	1.82	34.3	6.9	<0.05	2.2	7.08	30.9	2.36	69	6.4	28.2	105	361
STD DS9	Standard	1.57	36.3	6.7	<0.05	2.5	7.66	31.9	2.52	74	6.1	26.5	116	378
STD DS9 Expected		1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

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		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
BLK	Blank	<0.01	<0.01	0.02	<0.1	<2	0.1	<0.1	2	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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106A Granite Road
Whitehorse YT Y1A 2V9 CANADA

Project: RIVIER
Report Date: September 24, 2013

QUALITY CONTROL REPORT WHI13000410.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Tl ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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QUALITY CONTROL REPORT WHI13000410.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

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Submitted By: Al Doherty
Receiving Lab: Canada-Whitehorse
Received: September 13, 2013
Report Date: September 24, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS WHI13000430.1

CLIENT JOB INFORMATION

Project: RIVIER
Shipment ID: 13-1.1
P.O. Number
Number of Samples: 3

SAMPLE DISPOSAL

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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
S150	3	Sieve to 150 mesh			WHI
RJSV	3	Saving all or part of Soil Reject			WHI
RIFL	3	Split samples by riffle splitter			WHI
1F05	3	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Voyager Gold Corp.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
RAYMOND CHAN
CHIEF ASSAYER

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

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Project: RIVIER
Report Date: September 24, 2013

CERTIFICATE OF ANALYSIS WHI13000430.1

		Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
REP 1115	Soil		1.34	58.67	12.18	105.9	465	300.0	36.3	400	4.64	308.7	0.6	25.6	5.2	20.2	0.44	18.95	0.16	39	0.32	0.074
REP 863	Soil		1.23	66.97	19.22	151.7	1872	133.1	30.1	518	4.57	889.5	2.9	173.1	10.2	15.8	2.23	8.13	0.31	9	0.25	0.085
REP 1299505	Soil		2.74	142.4	13.00	115.7	10772	632.6	60.7	2801	13.83	>10000	0.5	2501	2.0	133.8	0.47	98.95	0.32	27	0.81	0.102

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Report Date: September 24, 2013

CERTIFICATE OF ANALYSIS WHI13000430.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
REP 1115	Soil	16.4	90.3	0.68	142.2	0.010	2	0.99	0.003	0.07	0.5	7.7	0.12	<0.02	65	0.7	0.03	2.8	3.64	<0.1	0.05
REP 863	Soil	23.8	20.9	0.11	183.4	0.001	2	0.36	<0.001	0.09	0.4	7.1	0.09	0.04	49	1.1	0.05	0.8	4.82	<0.1	0.05
REP 1299505	Soil	5.8	80.3	0.80	839.6	0.002	8	0.61	0.001	0.12	1.1	20.1	0.38	0.08	76	0.7	0.34	1.4	22.20	0.1	0.03

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CERTIFICATE OF ANALYSIS WHI13000430.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
REP 1115	Soil	0.58	8.4	0.4	<0.05	2.2	9.17	31.9	<0.02	2	1.3	12.7	<10	<2
REP 863	Soil	0.15	7.5	0.1	<0.05	2.6	17.35	44.9	0.04	<1	0.9	2.4	<10	<2
REP 1299505	Soil	0.14	10.7	0.2	<0.05	4.2	15.47	13.9	0.06	1	1.4	4.6	<10	4

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QUALITY CONTROL REPORT WHI13000430.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
REP 1115	Soil	1.34	58.67	12.18	105.9	465	300.0	36.3	400	4.64	308.7	0.6	25.6	5.2	20.2	0.44	18.95	0.16	39	0.32	0.074
REP REP 1115	QC	1.31	59.42	11.99	102.2	471	299.9	39.0	396	4.60	302.1	0.6	26.7	5.3	20.5	0.40	18.18	0.15	40	0.33	0.072
Reference Materials																					
STD DS9	Standard	12.91	106.4	126.9	311.3	1829	41.3	7.8	591	2.35	25.8	2.4	120.9	5.8	63.3	2.31	4.82	5.86	41	0.73	0.083
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.01	<0.01	0.03	<0.1	2	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
REP 1115	Soil	16.4	90.3	0.68	142.2	0.010	2	0.99	0.003	0.07	0.5	7.7	0.12	<0.02	65	0.7	0.03	2.8	3.64	<0.1	0.05
REP REP 1115	QC	16.4	93.0	0.69	137.3	0.011	3	1.01	0.003	0.08	0.5	7.8	0.11	<0.02	57	0.3	<0.02	2.9	3.82	<0.1	0.05
Reference Materials																					
STD DS9	Standard	12.1	125.6	0.62	307.1	0.113	2	0.98	0.089	0.41	3.2	2.7	5.54	0.17	222	5.5	5.08	4.6	2.44	<0.1	0.09
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	0.1	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
REP 1115	Soil	0.58	8.4	0.4	<0.05	2.2	9.17	31.9	<0.02	2	1.3	12.7	<10	<2
REP REP 1115	QC	0.53	9.8	0.4	<0.05	2.3	9.27	33.8	0.03	<1	1.1	13.8	<10	4
Reference Materials														
STD DS9	Standard	1.44	34.9	6.4	<0.05	2.0	5.84	23.7	2.20	58	6.5	27.7	124	366
STD DS9 Expected		1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2