

# Report on the 2011 Geological, Geophysical and Geochemical Exploration Work on the Rivier Property

Watson Lake Mining District, Yukon Territory  
NTS Sheets 105G/06 and 105G/11  
61° 29' N 131° 10' W  
September 7 - 10, 2011

## **Claims:**

Rivier 1 (YD58798)  
Rivier 2-18 (YD58799 – YD58815)  
Rivier 19-22 (YD61450 – YD61453)  
Rivier 23-40 (YD58820 – YD58837)  
Rivier 41-44 (YD61454 – YD61457)  
Rivier 45-62 (YD58842 – YD58859)  
Rivier 63-66 (YD61458 – YD61461)  
Rivier 67-112 (YD58864 – YD58909)  
Rivier 113-116 (YD61462 – YD61465)

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## SUMMARY

The Rivier Property consists of 116 quartz claims covering 2,404 hectares, located in the Watson Lake Mining District 80 kilometres southeast of Ross River, Yukon. Voyager Gold Corp. has an option to acquire a 60% interest in the Property from Rackla Metals Inc. The Property is a gold target.

The Rivier Property lies on a slab of allochthonous Slide Mountain Terrane that was accreted onto the margins of Ancestral North America in Mesozoic time, and then displaced by the regional-scale Cretaceous/Tertiary Tintina Fault. A three square kilometre ultramafic body of serpentinite and listwanite lies unconformably on rocks of the schistose Nasina assemblage of the Yukon Tanana Terrane (YTT). Cretaceous intrusions occur throughout the YTT.

An exploration program completed by Voyager Gold in 2011 consisted of 472 line kilometres of airborne multi-sensor geophysics, collection of 587 grid soil samples, six silt samples and 20 rock samples and reconnaissance geological mapping.

Geochemical results from soil sample programs have identified favourable anomalous results over the ultramafic body that indicate the potential for gold mineralization. The exploration target is a listwanite-associated lode gold mineralization of the Motherlode type. Pathfinder elements match the signature for this type of deposit.

The geophysical data shows a very strong and distinctive aeromagnetic high closely coincident with the serpentinite phase of the ultramafic body, and a surrounding strong magnetic low defines its contact with the listwanite alteration assemblage. Three zones of anomalous gold values are defined from geochemical data, all of which flank the magnetic high.

Further exploration including helicopter supported exploration and a diamond drilling program is recommended to explore the gold-in-soil anomalies associated with the magnetic high anomaly on the Property.

## INTRODUCTION

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This report was prepared for Voyager Gold Corp. (“Voyager”). Its purpose is to satisfy assessment requirements of the Yukon *Quartz Mining Act* through a description of exploration work carried out to September 10, 2011 (inclusive) and an assessment of the exploration potential of the Rivier Property.

The Rivier Property is located in southeastern Yukon Territory (Figure 1). Exploration work completed on the Property consists of geological mapping, geochemical sampling, and geophysical surveys. Work programs completed to date had the overall objective of identifying potential bedrock gold mineralization.

## PROPERTY DESCRIPTION AND LOCATION

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The Rivier Property<sup>1</sup> is situated 80 kilometres southeast of Ross River in southeastern Yukon Territory on NTS map sheet 105G/06 and 105G/11, and is centered at 61° 29’N and 131° 10’W (UTM coordinates 384000E 6819000N; NAD 83, Zone 9N) about 12 kilometers northeast of the Tintina Trench (Figure 2). The 116 claims total an area of 2,404 hectares which were staked under the Yukon Quartz Mining Act and are registered in the Watson Lake Mining District.

**Table 1.** *Rivier Property Claims.*

Claim Name	Grant Number	Registered Owner	Expiry Date
Rivier 1	YD58798	Rackla Metals Inc.	Apr 22/2015
Rivier 2-18	YD58799 – YD58815	Roger W. Hulstein	Apr 22/2015
Rivier 19-22	YD61450 – YD61453	Rackla Metals Inc.	Apr 22/2015
Rivier 23-40	YD58820 – YD58837	Roger W. Hulstein	Apr 22/2015
Rivier 41-44	YD61454 – YD61457	Rackla Metals Inc.	Apr 22/2015
Rivier 45-62	YD58842 – YD58859	Roger W. Hulstein	Apr 22/2015
Rivier 63-66	YD61458 – YD61461	Rackla Metals Inc.	Apr 22/2015
Rivier 67-112	YD58864 – YD58909	Roger W. Hulstein	Apr 22/2015
Rivier 113-116	YD61462 – YD61465	Rackla Metals Inc.	Apr 22/2015

On April 22, 2010, Roger Hulstein (“Hulstein”) staked 100 of the claims (the “Hulstein Claims”) comprising the Rivier Property. In accordance with an Agreement between Radius Gold Inc. (“Radius”) and Hulstein dated July 18, 2010, Radius was granted the option to earn a 100 % interest in the Hulstein claims. On September 10, 2010, Radius acquired the other 16 Rivier claims by staking. Table 2 summarizes the payment schedule due under the Hulstein Option.

**Table 2.** *Summary of Hulstein-Radius option agreement.*

Date	Cash	Shares
On Signing	\$ 25,000 (paid)	25,000 (issued)
July 18, 2011	\$ 10,000 (paid)	25,000 (issued)
July 18, 2012	\$ 20,000	25,000
July 18, 2013	\$ 40,000	25,000
July 18, 2014	\$ 80,000	25,000
Total:	\$175,000	200,000

<sup>1</sup> Nothing in this report is intended to guarantee security of mineral title.

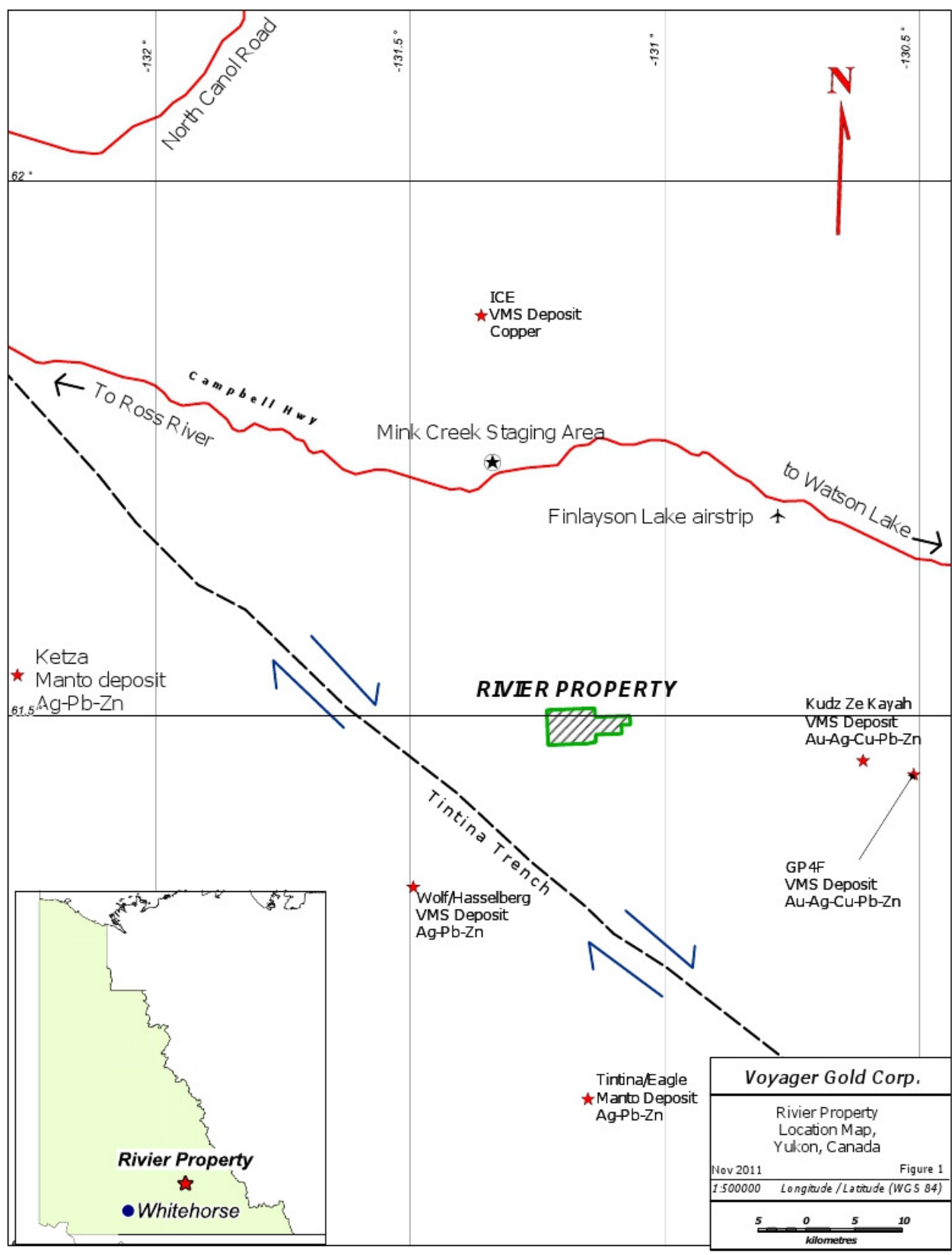


FIGURE 1: Rivier Property Location Map

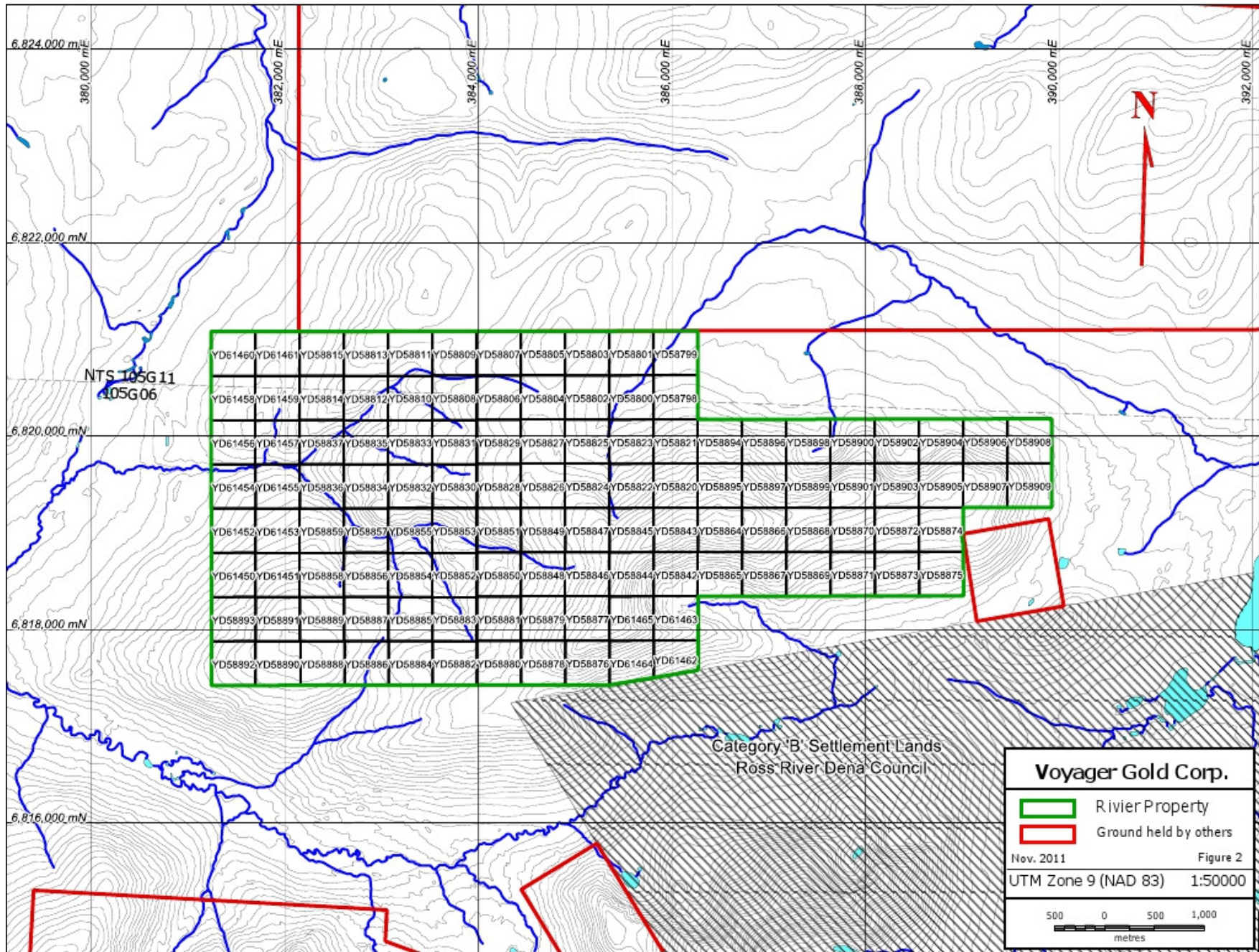


FIGURE 2: Rivier Property claims map, Watson Lake Mining District. Modified from Yukon Mining Recorder shapefile data at <ftp://ftp.geomatics Yukon.ca/Mining/>

As part of an asset spinout transaction, Radius assigned (the "Assignment") all of its rights and obligations under the Hulstein Option to Rackla Metals Inc. ("Rackla"). Voyager and Radius agreed to the Assignment to Rackla Metals Inc. on October 13, 2011.

**Table 3.** Summary of Voyager-Rackla option agreement.

Date	Cash	Shares	Expenditures
On Signing	---	200,000 (issued)	---
December 31, 2011	---	---	\$ 100,000 (spent)
On public listing of Voyager	---	200,000	---
November 30, 2012	\$ 50,000	200,000	\$ 200,000
November 30, 2013	\$ 50,000	200,000	\$ 300,000
November 30, 2014	\$100,000	200,000	\$ 400,000
Total:	\$200,000	1,000,000	\$1,000,000

Assuming Voyager has completed its cash and share payments and exploration expenditures, Voyager and Rackla will enter into a 60/40 joint venture to further explore and develop the Property.

Mineral claims within the Yukon Territory are covered by the *Quartz Mining Act* and are physically staked by placing two claim posts at each end of the location line for the claim. Mineral claims cannot measure more than 1500 feet by 1500 feet (457.2 x 457.2 meters) and are valid for one year from the date of staking. Assessment work such as geological mapping, geochemical or geophysical surveys, trenching or diamond drilling, must be completed each year to maintain title, or alternatively cash in lieu of assessment may be paid to the mining recorder. A minimum annual work commitment of \$100 per claim is required to keep claims in good standing. Expenditures exceeding the minimum requirements can be credited to future years and adjoining claims can be grouped together (to a maximum of 750 mineral claims) so that work done on one claim may be filed onto adjoining ground.

The *Quartz Mining Land Use Regulations* classify exploration activities based on increased potential for adverse environmental impact. No notification, assessment, or permit approval is required for Class 1 operations, which covers grassroots-type exploration. The work programs carried out meet MLUR class I thresholds and therefore did not require a Permit. Potential mine development on the property will require a Yukon Mining Licence and Lease issued by the Yukon Territorial Government. There are no other impediments to the Company's surface rights of the Property.

There are no known environmental liabilities on the Property and no formally designated parks or special management zones within the Property.

## **ACCESS, CLIMATE, INFRASTRUCTURE, AND PHYSIOGRAPHY**

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 at Mink Creek approximately 30 kilometres north of the property, and alternatively from the nearby Finlayson Lake airstrip. A tote road extends from the Campbell Highway to the south and west of the property. The 2010 exploration team noted the presence of hunters on ATVs, indicating the road is usable (MacGearailt, 2010).

From Whitehorse (population 26,000) there is daily jet airplane service to Vancouver, British Columbia 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 asl at valley bottoms to 2,000 meters asl at the top of the highest peak, with much of the Property above the approximately 1,500 m tree line. Permafrost is present on north-facing slopes.

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  $-30^{\circ}\text{C}$  to  $-45^{\circ}\text{C}$  are common) and short summers with daily highs of  $10^{\circ}\text{C}$  to  $25^{\circ}\text{C}$ . 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 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.

## HISTORY

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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 Kudze 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 20<sup>th</sup> 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 20<sup>th</sup> 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.

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 As 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 spacings and 20 metre sample spacings, 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 reported (1995) 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. 40 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 (MacRobbie, 1995). Moyle & Wesa reported (1998) 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 (Moyle and Wesa, 1998).

Burgert reported (1997) a 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 spacings 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).

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

## **GEOLOGICAL SETTING AND MINERALIZATION**

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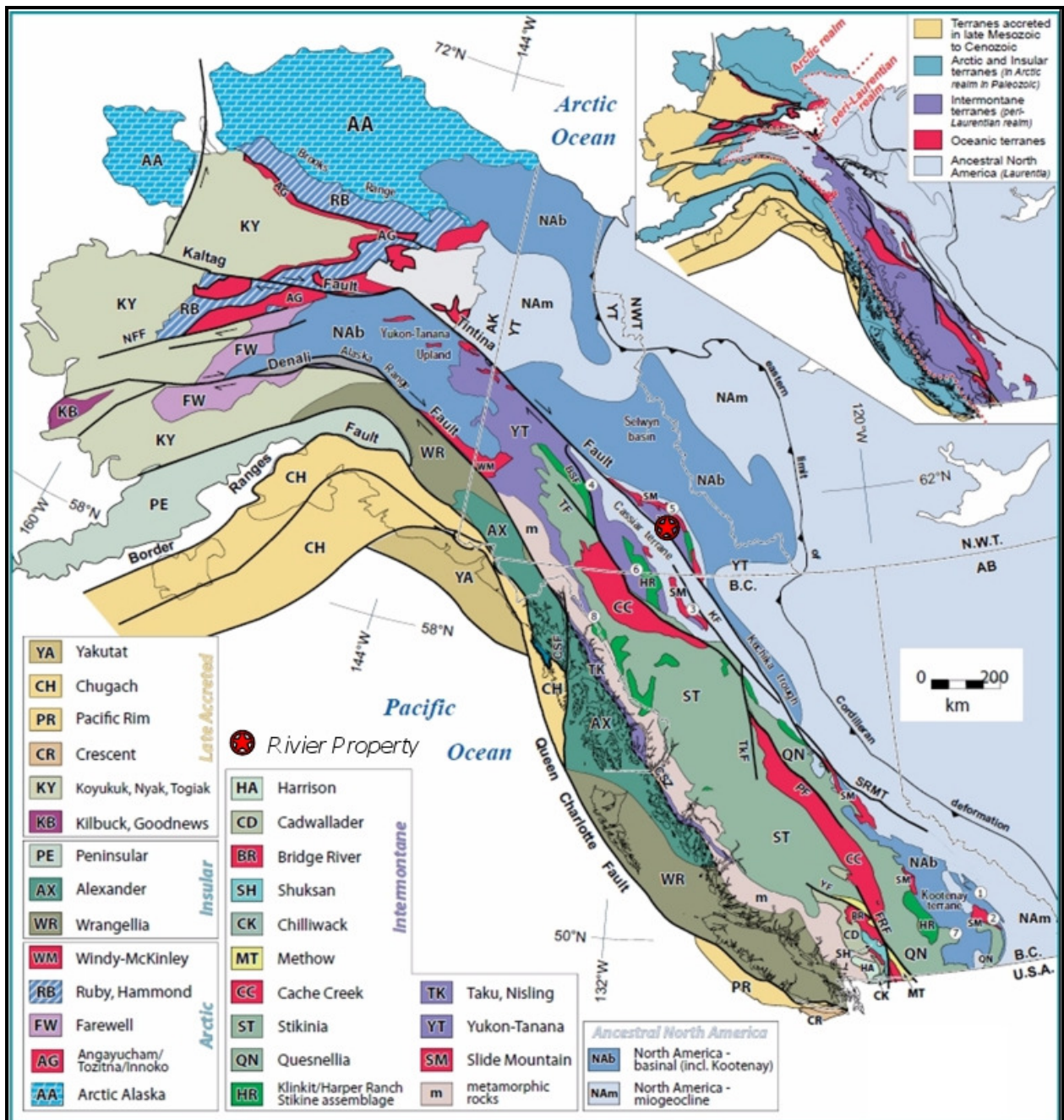
### **Regional Geology**

The Rivier Property lies in the Yukon Tanana Terrane (YTT) underlain by units of the Nasina assemblage (Colpron et al, 2006). This assemblage represents a Late Devonian to Early Mississippian arc/back-arc paleo-environment within the YTT of the Canadian Cordillera. 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 exhibits 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 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 (Anvil Assemblage) overlie the pericratonic rocks of YTT and are preserved as klippen. Figure 4 displays the Regional Geology. 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.

Cretaceous granitoid intrusions are exposed throughout the district and the district hosts important VMS deposits and occurrences (Colpron et al, 2006).



Modified from Nelson and Colpron, 2007

<b>VOYAGER GOLD CORP.</b>	
Rivier Property Tectonic Setting	
Nov. 2011	Figure 3

FIGURE 3: Regional tectonic setting

## Property Geology

The Rivier Property lies chiefly over various schistose meta-sediments of the Nasina Assemblage, a mostly Devonian unit of the pericratonic YTT, as well as being the oldest rocks on the Property. This assemblage was dextrally displaced along with other lithologies of the YTT by the Tintina Fault, with the larger portion of corresponding Nasina lithology currently located in the Klondike/Dawson area of the Yukon. 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.

A unit of Slide Mountain Terrane (Anvil Assemblage) altered ultramafic rock occupies the center of the property and unconformably overlies the Nasina assemblage. This ultramafic unit is a displaced, fault-bounded lithological unit from an ophiolitic protolith. Brecciated rocks were found by the 2011 exploration crew, and sampled by the author. Other 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 complicit in the development of intrusive bodies have not been identified on the 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 ultramafic unit is more resistant to weathering than the schist unit and represents a significant percentage of the outcrop on the Property.

Structure on the Property is dominated by at least three trends. Regional-scale depressions visible on topo maps in concordance with bedding measurements denote a high-angled, northwest dipping, northeast/southwest orientation, and a fracture set in the ultramafic unit trends perpendicularly with dip to the northeast. Steeply dipping, east-west trending quartz veining observed within the Nasina assemblage on the Property are potentially related to steep, north dipping, east-west trending embankments that appear to reflect bedding of the relatively poorly exposed Nasina lithology, and thus may provide structural control for emplacement of the veins. 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).

The Property geology, as currently interpreted, is shown on Figure 5. An updated, more detailed outline of the central ultramafic unit is pending a geophysical analysis of aeromagnetics data acquired during the 2011 exploration program.

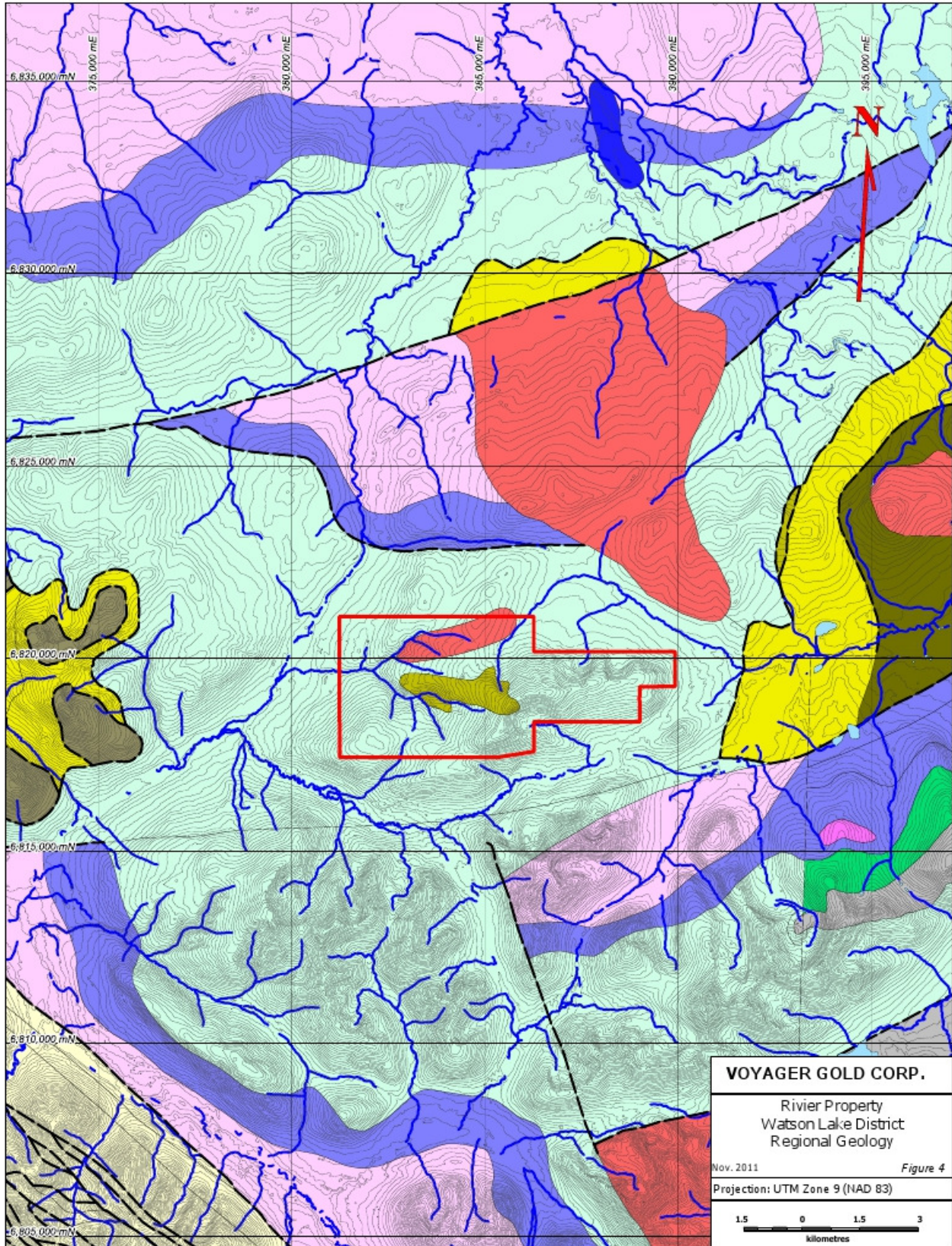















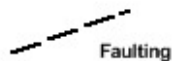


FIGURE 4: Rivier Property regional geology map (modified from Yukon Geological Survey spatial data). Accompanying legend on following page.

### Regional Geology of Rivier claims area - Legend to accompany Figure 4

<b>Tertiary</b>		<b>Basalts</b>	Locally amygdaloidal, dark grey-green olivine basalt necks and flows; subaerial and subaqueous (locally pillowed); volcanoclastic rocks; minor olivine gabbro; locally plagioclase-phyric basalt and diabase dykes; minor shale and conglomerate
<b>Cretaceous</b>		<b>Plutonic Intermediate</b>	Resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)
		<b>Plutonic Felsic</b>	Equigranular to porphyritic (K-feldspar) biotite +/- hornblende +/- muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
<b>Carboniferous to Permian</b>		<b>Oceanic Assemblage</b>	
		<b>Mafic volcanics</b>	Variably altered and foliated, locally augite-phyric basalt (local pillows), diorite and gabbro, chloritic greenstone, amphibolitic greenstone and amphibolite; minor metachert, siliceous argillite or siltstone, greywacke, tuff, and siliceous limestone
		<b>Limestone</b>	Light grey to buff weathering, massive fine crystalline, light to dark grey limestone and minor dolomite; light grey, massive, crinoidal limestone; limestone and polymictic conglomerate; sandy limestone, cherty limestone; marble, phyllite, meta-siltstone
		<b>Ultramafics</b>	Dunite, peridotite, gabbro, pyroxenite, harzburgite and minor diorite, hornblende and diabase; serpentinite, orange-weathering quartz carbonate rock with minor green chromian muscovite, talc-carbonate schist and carbonatized ultramafic rocks
<b>Devonian to Mississippian</b>		<b>Pelly Gneiss suite</b>	Variably deformed granitic rocks
		<b>Pelly Gneiss - Felsic</b>	Resistant, medium grey weathering, porphyritic (pink K-feldspar) biotite quartz monzonite; generally fresh to weakly saussuritized, locally shattered and recemented
		<b>Micaceous and/or graphitic quartzite</b>	Dark grey to black, fine grained graphitic and non-graphitic quartzite, grey micaceous quartzite and quartz muscovite (+/- chlorite; +/- feldspar augen) schist, locally garnetiferous; minor graphitic stretched metaconglomerate and metagrit (Nasina assem.)
			Quartzite, micaceous quartzite, quartz muscovite (+/- chlorite; +/- feldspar augen) schist, and minor metaconglomerate and metagrit as in DMN1, but may locally include significant Nisling Assemblage
			Quartzite, micaceous quartzite, quartz muscovite (+/- chlorite; +/- feldspar augen) schist, and minor metaconglomerate and metagrit as in DMN1, but may locally include significant Klondike Schist Assemblage
<b>Cambrian to Devonian</b>		<b>Cassiar terrane</b>	Various accreted lithologies of the Cassiar terrane, southwest of Tintina fault zone
<b>Proterozoic and Early Paleozoic</b>		<b>Amphibolite</b>	Calcareous actinolite-plagioclase-chlorite-biotite schist, plagioclase-actinolite-chlorite schist, and lesser carbonaceous phyllite and quartzite; metamorphosed ultramafic rocks including dunite and pyroxenite, locally serpentinitized
		<b>Schist</b>	Calcareous quartz psammite, marble, calcareous chlorite-biotite schist and calcsilicate; calcareous garnet-biotite-muscovite schist, rare amphibolite; biotite-quartz-muscovite schist and lesser quartz-feldspar-muscovite augen schist (assignment uncertain, could belong to DMN (Nasina))



Scale - 1:125000

Note - Contour intervals based on NTS maps are 100 ft on the north half of the map, and 20m in the south half.

Lithological information from <http://www.geology.gov.yk.ca/>

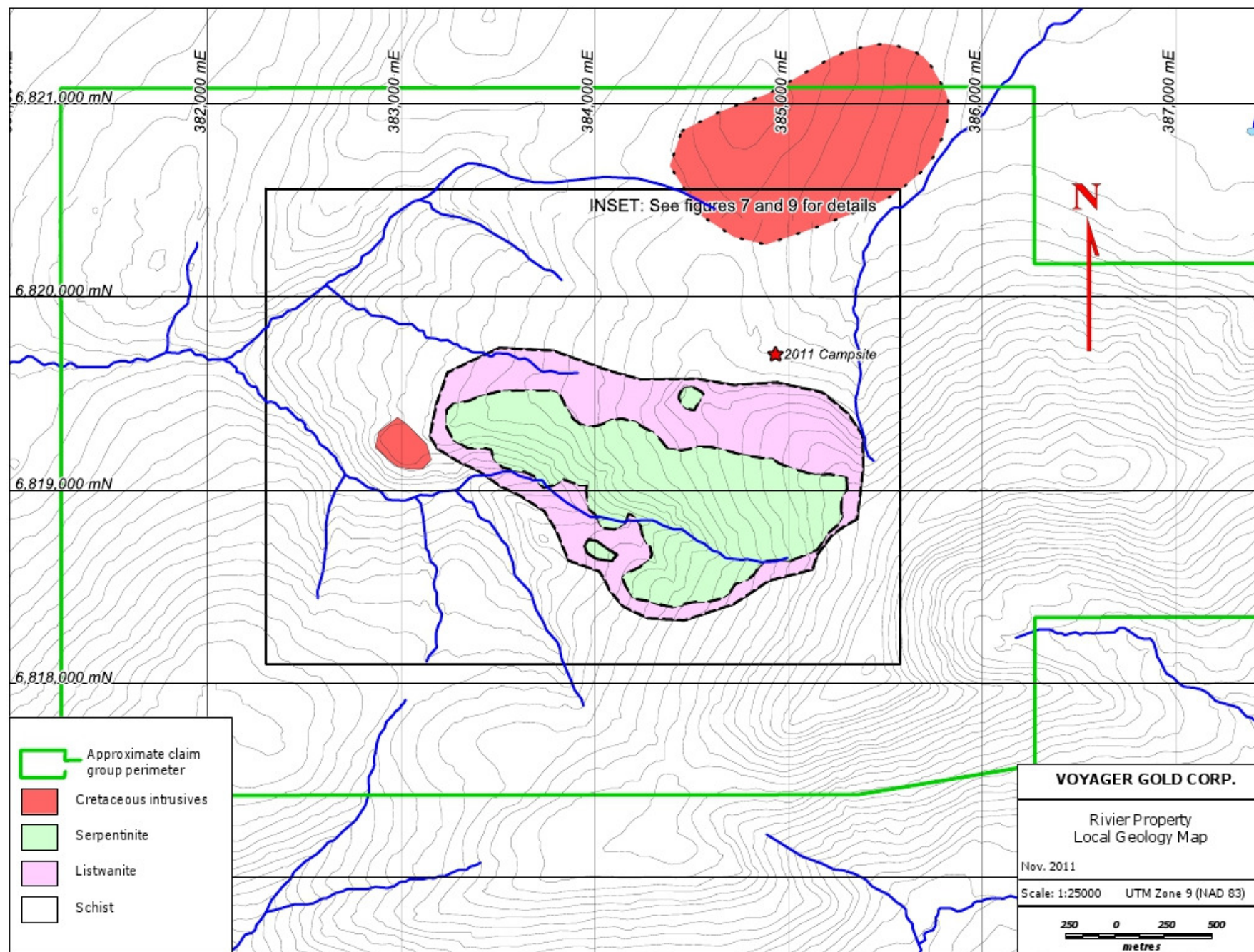


FIGURE 5: Rivier Property area of interest geology map. Modified from MacGearailt, 2010 and Yukon Geological Survey spatial data, Nov. 2011.

## 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.

Three zones of potential mineralization have been defined by the results of the soil sampling program. These zones are coincident with the margins of the geomagnetic high, and are presently labelled North Zone, West Zone and South Zone. 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, mechanized soil sampling, or drilling on the Rivier Property.

## DEPOSIT TYPES AND EXPLORATION MODEL

The Rivier Property is a gold-quartz vein type deposit exploration prospect located in a region that has historically been strongly associated with VMS deposits.

Gold-Quartz veins and veinlets with minor sulphide minerals 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 transcrustal 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<sub>2</sub> and containing Au(HS)<sub>2</sub> 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 serpentinite 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 deposits occur in Yukon at Caribou Creek (Minfile 115I 049), Venus (Minfile 105D 005) and Skukum Creek (Minfile 105D 022). There has been minor production from the Venus mine in the past. 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.

VMS deposits occur across lithologies of all ages and are formed in volcanically active seafloor environments with the formation of (commonly mafic) volcanic bodies, often with some association with explosive breccias and minor amounts of sedimentary rocks (Franklin, 1993). They continue to form at present around sulfide-rich, hydrothermal vents on the ocean floor known as 'black smokers.'

Deposits take form as massive bodies taking the form of an alteration pipe or a footwall-conformable assemblage, rich in ore-bearing iron sulfides dominated by pyrite, with an underlying 'stringer zone' containing stockworks. Typical economic mineralization in a VMS system consists of chalcopyrite, sphalerite, hematite and sometimes galena, bornite and tetrahedrite/tennantite alongside the dominant waste rock sulfides of pyrite and pyrrhotite. Strong, metasomatic, characteristically magnesium and chlorite alteration zones surround deposits, and a variety of ore zonation is typical. VMS deposits are considerably important in the Canadian Cordillera as well as worldwide in the production of copper, zinc, lead, silver and gold (Guilbert and Park, 1986).

VMS deposits located in the vicinity of the Rivier Property are associated with seafloor volcanism from the arc/back-arc paleo-environment of the Finlayson assemblage (Murphy et al, 2006).

Although the Author makes general comparisons to the above-mentioned deposit types, the reader is cautioned that the Author cannot verify that these deposits are directly comparable with the mineralization at the Rivier Property.

## **EXPLORATION**

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### **Geological Mapping**

Mapping during the 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. Two units other than the Nasina Assemblage were mapped on the Property by the YGS.

The YGS geological map shows a granitoid intrusion around the north end of the Property. Ground examination by Voyager Gold Corp. combined with the airborne geophysics did not locate the intrusion and the nature and certainty of its existence thus remains in question.

Outcrop from the resistant 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.

### **Geochemical Sampling**

Voyager Gold Corp. expanded on geochemical reconnaissance work done in the 2010 program. The field work was supervised by Chris McKnight, GIT, under the supervision of Harmen Keyser, P.Geol. Mr. McKnight and a team of four soil samplers contracted through Casselman Geological Services Ltd. in Whitehorse collected 587 soil samples, six silt samples and 20 rock samples in September 2011. Figure 6 displays the sample locations on the Property and figure 7 displays the 2011 grid soil and silt sediment sample results.

#### ***Soil sampling***

Soil samples were collected from a grid with 100 metre line spacing oriented east-west, and 50 metre north-south sample spacing, and loaded onto Garmin 60CSx and 62S GPS units. The grid covered a 3.0 x 1.7 kilometre area surrounding both the anomalous geochemistry from the 2010 program and the

ultramafic unit as portrayed on YGS maps. Line spacing was expanded to 200 metre spacing on the eastern and western sides of the grid in an effort to balance coverage with budget limitations.

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. Ash and glacial cover both have the potential to complicate exploration in the area.

### ***Silt sampling***

2011 silt sampling took place on streams 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.

### ***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 include 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 program.

## **Geophysical Surveying**

Voyager Gold Corp. contracted Precision GeoSurveys Inc. to fly a multi-sensor airborne geophysical survey over the entire Property area. The equipment used included the Airborne Geophysical Information System used for navigation and data recording, the Integrated Radiometric Information System that is the Gamma Spectrometer to detect and record the gamma radiation produced by Uranium, Thallium and Potassium in the underlying surface rocks and soils and a Precision GeoSurveys Scintrex cesium vapour CS-8 magnetometer to record the magnetic response of the underlying bedrock. The results of the surveys are digitally processed and displayed on a thematic map. The survey was conducted from October 14<sup>th</sup> to 19<sup>th</sup>, 2011 and consisted of combined magnetic and radiometric measurements over a total of 472 line kilometers at line spacings of 100 metres, with survey lines oriented north-south. The area flown covered the entire claim block as well as a variable buffer zone surrounding the claims, and covered an area of 43 square kilometres. Figure 8 displays the result of the aeromagnetic survey and the area covered in the survey.

Magnetic data shows a very strong magnetic high corresponding to the ultramafic body. The magnetic high is completely surrounded by a strong magnetic low which extends at least 200 meters in every direction with almost no visible gradient between the two. The magnetic low extends for a greater distance than listwanite is observed by mapping, particularly to the northeast. A magnetic relief of 3,700 nT between the magnetic high and low associated with the ultramafic body constitutes the most pronounced difference.

The survey was done after the assessment deadline of September 10, 2011, and is therefore not being claimed towards the assessment requirements for this date.

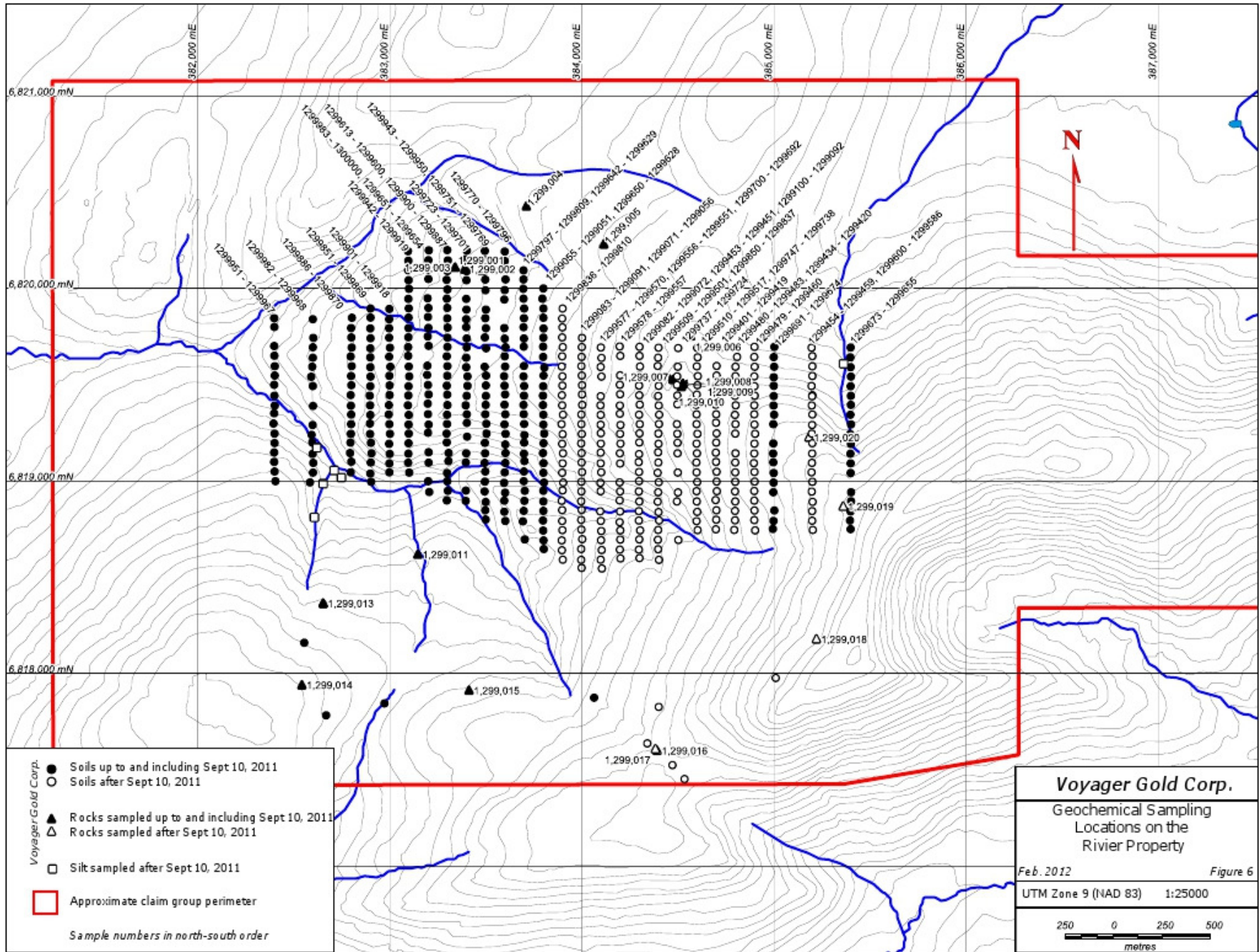


FIGURE 6: Geochemical sampling locations (Burgert, 1996; MacGearailt, 2010, and 2011 Voyager data)

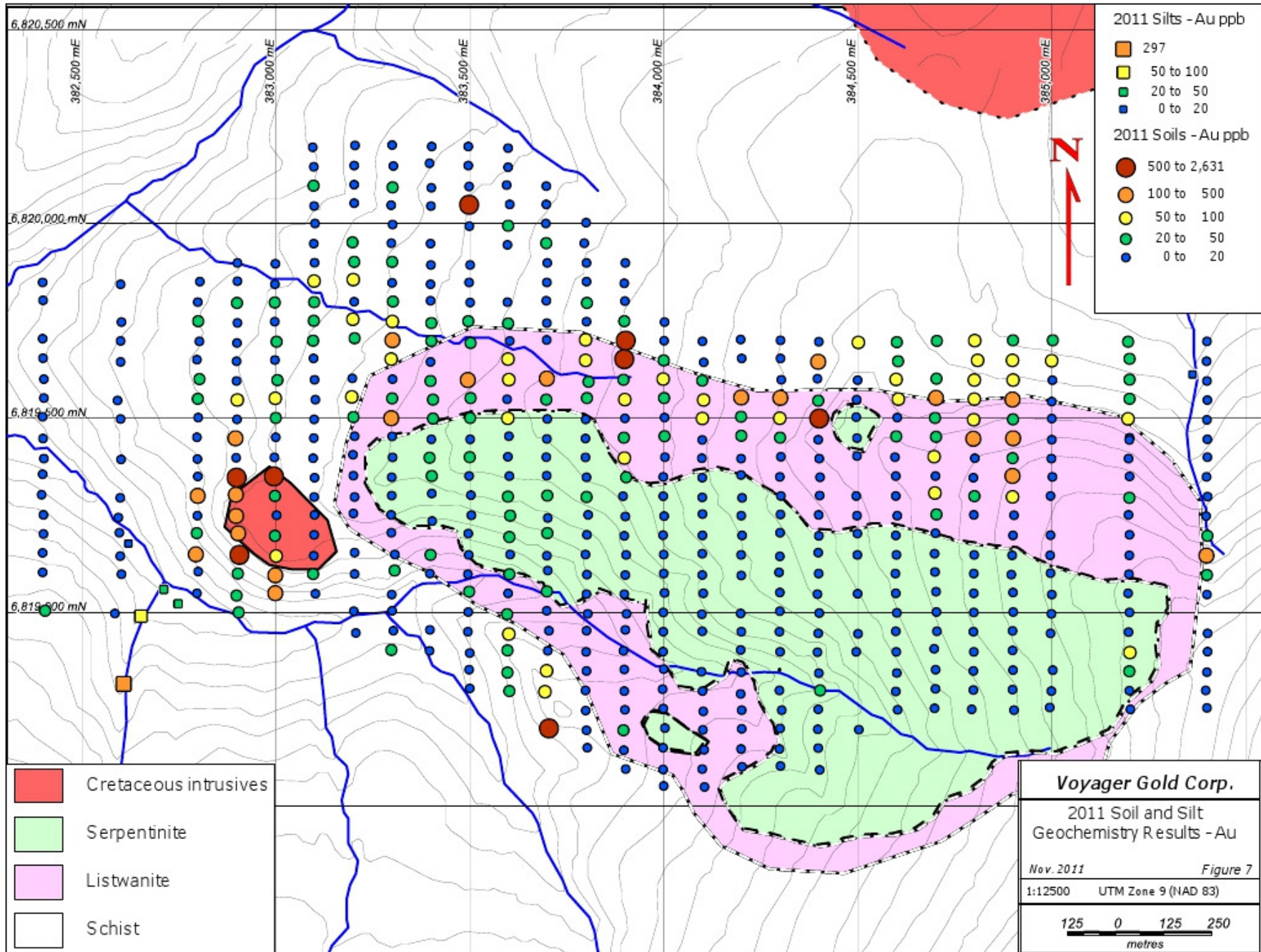


FIGURE 7: 2011 soil and silt Au geochemistry results, with background geology from Fig. 5.

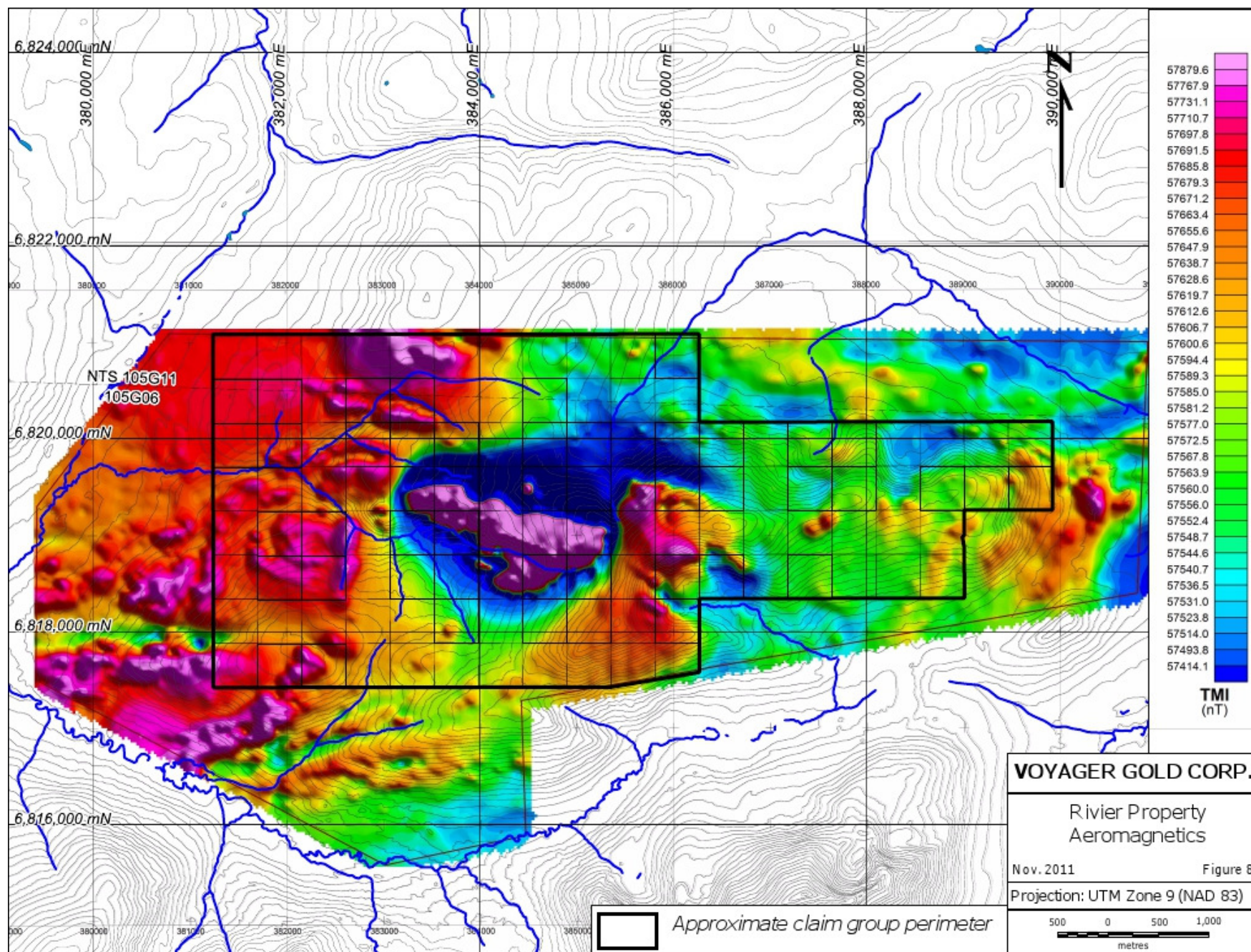


FIGURE 8: Total magnetic intensity from Precision Geosurveys Inc. Note the dramatic mag high coincident with the serpentinite body in the center of the Property.

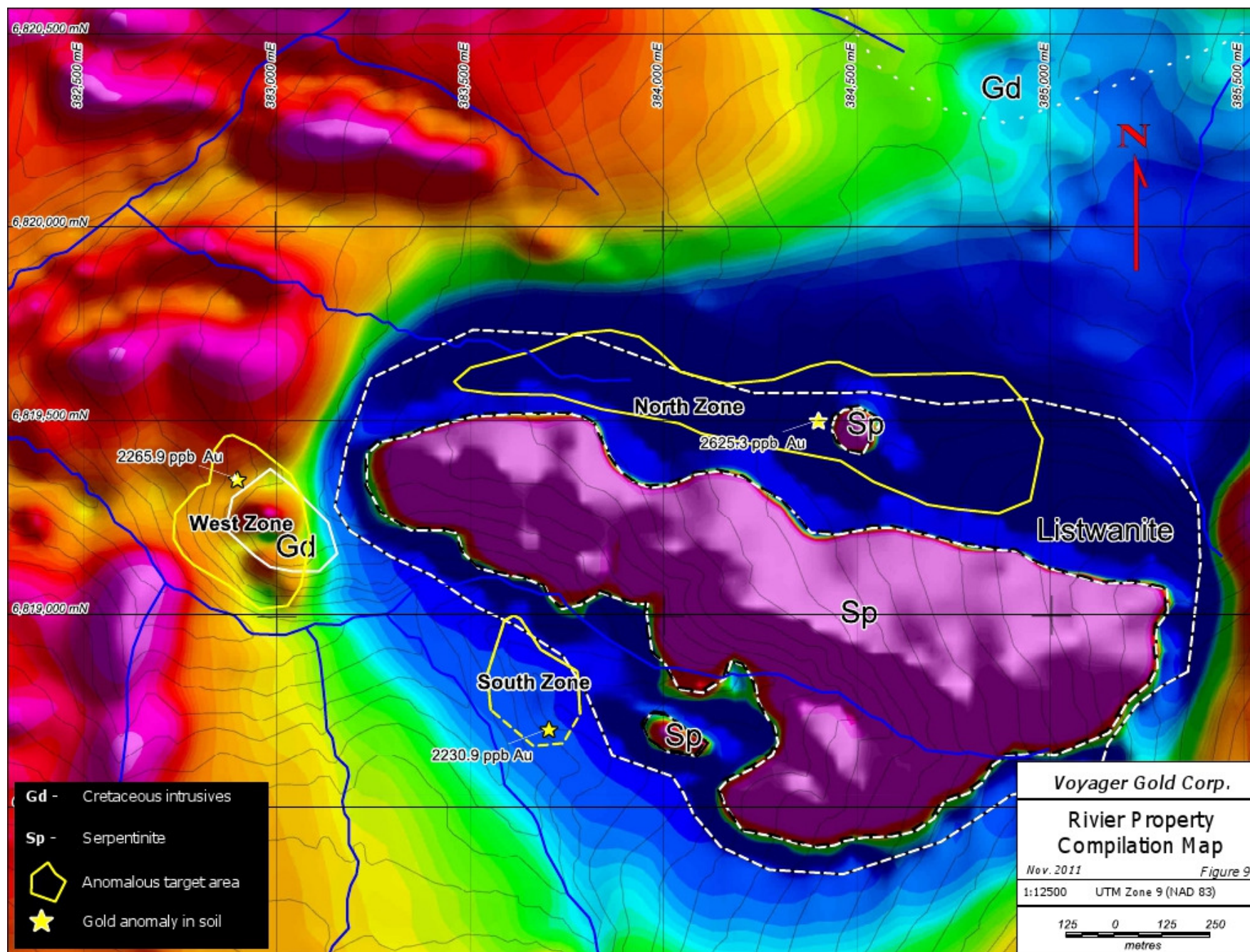


FIGURE 9: Compilation map. Background represents total magnetic intensity.

## CONCLUSIONS AND RECOMMENDATIONS

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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 serpentinitized 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 carbonatization of serpentinite 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 serpentinite fraction of the ultramafic body. 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 9 displays the compilation of the exploration to date and the locations of the three gold-in-soil anomalous zones.

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 early-stage gold prospect on which further exploration is warranted.

The risk for future exploration is that although the alteration system is widespread the mineralization may be dispersed and does not occur in economic concentrations. At this stage of exploration with no mineralization discovered in outcrop the orientation of potential mineralized zones is unknown.

The following work is recommended:

1. Acquire and integrate all available data into a digital GIS database, and maintain the database as exploration continues. Quality control and quality assurance measures to ensure data reliability appropriate to the level of exploration must be implemented and maintained.
2. Expand upon grid base geochemistry to identify areas carrying anomalous concentrations in gold and pathfinder elements. Multi-element geochemical analyses must be made.
3. Carry out 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 affinity for gold mineralization.
4. 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.
5. Conduct hand and/or mechanized trenching in anomalous zones.
6. Test exploration targets with a program of diamond drilling.
7. Acquire additional ground if necessary.

Respectfully submitted.



Harmen J. Keyser, P.Geol

February 15, 2012

Christopher McKnight, GIT

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## STATEMENT OF QUALIFICATIONS - CSM

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I, Christopher S. McKnight, hereby certify that:

1. I am a geologist in the employ of Voyager Gold with office address #520—355 Burrard Street, Vancouver, British Columbia V6C 2G8
2. I am not independent of Voyager Gold nor the Rivier property. This report is intended to satisfy assessment requirements, and may not be used in any circumstance that may require an independent report under securities regulations.
3. I am a graduate of Dalhousie University, Halifax, with a B.Sc. in earth sciences (2007).
4. I have 3 years of experience working as an exploration geologist in the Yukon and British Columbia.
5. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia.
6. I am a co-author of this report on the Rivier Property, which is based on my personal examination of the property from September 7 to 13, 2011, and on data from referenced sources.
7. This report is intended to satisfy assessment requirements, however, I consent to the use of this report by Voyager Gold Corp. for any purpose deemed necessary, including public disclosure, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

February 15, 2012

Christopher McKnight, GIT

## STATEMENT OF QUALIFICATIONS - HJK

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I, Harmen J. Keyser, hereby certify that:

1. I am a consulting geologist with office address #520—355 Burrard Street, Vancouver, British Columbia V6C 2G8
2. I am an officer, director and shareholder of Voyager Gold Corp., and a shareholder of Radius Gold Inc. Therefore, I am not independent of Voyager Gold nor the Rivier property. This report is intended to satisfy assessment requirements, and may not be used in any circumstance that may require an independent report under securities regulations.
3. I am a graduate of Saint Mary's University, Halifax, with a B.Sc. in geology (1981).
4. I have been employed as a geologist on a full-time and part-time basis continuously since 1978.
5. I am a Licensee of the Northwest Territories Association of Professional Engineers, Geologists, and Geophysicists (L1034)
6. I am a co-author of this report on the Rivier Property, which is based on my personal examination of the property in October 2011, and on data from referenced sources.
7. This report is intended to satisfy assessment requirements, however, I consent to the use of this report by Voyager Gold Corp. for any purpose deemed necessary, including public disclosure, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.



February 15, 2012

Harmen J. Keyser, P.Geol

## STATEMENT OF COSTS

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The following expenditures were incurred on the Rivier claims described in this report to qualify for assessment credits prior to and including the assessment anniversary date of September 10, 2011:

Camp and logistical support costs (Casselman Geological Services Ltd. Invoice 11-51):	\$ 11,927.21
Helicopter support (Horizon Helicopters Ltd. Invoice 311):	\$ 6,787.20
Geochemical and analytical costs* (Acme Analytical Laboratories Invoices VANI108848, VANI108849 and VANI108850):	\$ 11,612.34
<b>Total assessment valuation:</b>	<b><u>\$ 30,326.75</u></b>

\*Analytical costs for geochemical samples have been pro-rated among their respective assessment periods by sample collection date.

# **APPENDIX A**

*Sample Locations with Selected Analytical Results*

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299021	12-Sep-11	Stream	382653	6818991	1395	87.5	3.4	83.4	29.37	203.3	1304	96.6	27	733	229.8	8.15	66.1	98.7
1299022	12-Sep-11	Stream	382608	6818816	1446	296.2	5.24	140.64	43.19	301.5	2228	126.9	34.9	1199	420.5	11.43	52.2	113.1
1299023	12-Sep-11	Stream	382620	6819178	1379	11.3	1.27	33.46	17.95	136.7	400	162.7	20.7	629	129.8	3.46	98.3	80.5
1299024	12-Sep-11	Stream	382711	6819060	1382	21	1.15	26.91	15.89	124.2	465	159.6	18.8	641	147.9	3.1	85.7	90.2
1299025	12-Sep-11	Stream	382748	6819023	1392	20.2	1.74	36.08	16.55	123.3	653	95.7	17.7	548	238.6	4.19	45.5	88.2
1299026	12-Sep-11	Stream	385363	6819614	1665	8.7	5.69	64.47	18.98	137.9	533	150.4	25.8	796	192.3	5.29	77.6	96.6
1299042	11-Sep-11	Soil	385010	6817982		10.5	3.3	45.64	98.71	160.2	868	49.1	17.4	733	637.3	0.68	15.6	178.8
1299043	11-Sep-11	Soil	384401	6817832		1.5	2.14	7.99	74.19	40	333	6.5	3.5	340	113.4	0.31	8.4	197.1
1299044	11-Sep-11	Soil	384341	6817642		7.6	1.3	18.54	26.65	188.5	171	14.7	11.1	590	119.5	0.4	10.5	127
1299045	11-Sep-11	Soil	384472	6817530		1.5	0.31	4.25	2.92	8.8	79	1.8	0.7	43	3.7	0.05	2.8	50.6
1299046	11-Sep-11	Soil	384535	6817457		9	2.51	23.72	32.67	158.1	288	19.6	17.7	2106	226.1	0.65	14.5	177.3
1299047	10-Sep-11	Soil	384065	6817880		5.2	1.25	9.43	26.99	71.8	417	11.2	7.4	411	70.8	0.25	11.6	172.8
1299048	10-Sep-11	Soil	382973	6817850		24.6	1.24	15.14	6.3	17.8	525	6.6	3.8	326	179.9	0.53	4.5	34.5
1299049	10-Sep-11	Soil	382670	6817788		3.3	1.07	38.43	15.77	90.1	84	62.6	16.3	895	19.9	0.94	72.3	153.9
1299050	10-Sep-11	Soil	382556	6818165		5.2	0.69	25.14	13.11	59.3	92	43.5	14.4	538	15.2	0.63	59.5	89.4
1299051	10-Sep-11	Soil	383802	6819798	1601	23.7	2.09	52.74	16.99	100.6	493	64.8	15.1	581	101.4	4.1	39.9	202.9
1299052	10-Sep-11	Soil	383801	6819853	1599	5.8	1.45	28.35	14.83	70.4	176	56	13.7	433	33.5	1.46	61.8	190.5
1299053	10-Sep-11	Soil	383801	6819901	1595	7	1.94	30.73	20.53	93.1	98	66	17.2	563	62.9	2.16	60.7	178.8
1299054	10-Sep-11	Soil	383795	6819952	1591	4.1	4.98	37.21	18.63	73.3	146	33.9	9.4	1071	246.1	4.48	23.5	438.5
1299055	10-Sep-11	Soil	383800	6820005	1586	6.5	1.83	35.76	20.54	87.2	163	56.4	10.3	396	143.1	2.78	38.5	356.6
1299056	11-Sep-11	Soil	384000	6818554	1565	5.3	1.74	18.82	16.77	83.5	288	70.8	10.3	8028	119.7	1.04	27.9	582.6
1299057	11-Sep-11	Soil	383998	6818596	1562	4.4	0.73	16.09	12.82	49.2	485	49.7	5.7	914	109.7	4.17	176.1	419.5
1299058	11-Sep-11	Soil	383998	6818652	1561	1.3	1.32	7.66	15.55	47.4	153	13.6	6.1	260	68.7	0.44	17.5	51.3
1299059	11-Sep-11	Soil	384003	6818703	1563	2.9	1.21	10.49	16.9	42.1	291	23.2	7.3	301	56.8	0.6	28.8	129.1
1299060	11-Sep-11	Soil	383999	6818753	1561	14	10.18	74.68	37.52	80.2	1542	67.5	11	579	154.1	7.01	26.6	136
1299061	11-Sep-11	Soil	383997	6818803	1552	7.2	2.01	35.71	22.71	85	909	47.1	9.9	439	94.5	2.07	36.8	211.5
1299062	11-Sep-11	Soil	384000	6818855	1532	6.8	1.12	31.91	15.66	71.2	354	1059.2	63.8	808	104.3	3.22	608.6	132.9
1299063	11-Sep-11	Soil	383998	6818900	1540	2.1	1.49	14.61	15.76	76.5	59	187.3	20	393	39.9	1.64	184	228.5
1299064	11-Sep-11	Soil	383999	6818951	1552	1.4	1.15	15.8	11.01	64	51	264.2	26.5	429	35.9	2.21	235.7	136.7
1299065	11-Sep-11	Soil	383999	6819001	1560	7.1	0.69	12.02	7.58	49.6	53	511.7	28.8	337	16	0.86	379.4	143.6
1299066	11-Sep-11	Soil	384002	6819051	1565	1.4	0.56	11.91	6.91	44.5	28	524.2	27.7	299	16.7	0.85	370.1	110.2
1299067	11-Sep-11	Soil	384000	6819101	1585	2.2	0.96	17.89	10.24	61.2	129	325.3	27.4	465	33.1	2.08	242.6	182.1
1299068	11-Sep-11	Soil	384000	6819150	1606	3.7	0.66	19.16	7.29	48.9	206	843.1	34.2	381	57.4	4.66	666.8	122.8
1299069	11-Sep-11	Soil	383998	6819200	1619	6.6	0.36	20.27	7.51	56.2	238	967.4	42.2	242	63.7	9.61	856.6	121.2
1299070	11-Sep-11	Soil	384001	6819249	1622	5.2	0.86	22.97	8.11	61.8	197	933.2	53.6	838	189.7	16.78	717.5	191
1299071	11-Sep-11	Soil	383999	6819300	1627	4.1	0.25	18.88	8.7	63.6	178	617.9	31.7	249	35.4	4.98	634.5	124
1299072	11-Sep-11	Soil	384300	6819206	1676	3.7	0.92	13.77	7.91	51	52	748.6	39.9	554	27.9	2.43	589.2	115.2
1299073	11-Sep-11	Soil	384301	6819253	1680	2.1	0.68	20.74	7.87	64.9	205	1098.8	72.6	1189	75.3	5.46	953.9	147
1299074	11-Sep-11	Soil	384302	6819301	1682	8	0.73	20.97	7.06	59	246	1041.7	48.2	528	89.4	9.4	666.6	121.9
1299075	11-Sep-11	Soil	384299	6819350	1685	3	0.82	17.74	8.06	54.2	176	850.9	42.3	636	94.9	12.69	396.9	110.6
1299076	11-Sep-11	Soil	384302	6819402	1688	7.4	0.81	18.69	8.28	55.4	227	1031.1	53.1	811	179.1	18.26	531.5	131.9
1299077	11-Sep-11	Soil	384300	6819451	1682	31.1	4.99	49.68	17.92	100.5	554	1015.2	37.5	532	867.5	208.56	219.3	224.4

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299078	11-Sep-11	Soil	384299	6819501	1680	56	9.69	150.52	41.52	153.2	3805	178.8	47.7	1160	2200.1	39.16	24	149.3
1299079	11-Sep-11	Soil	384301	6819553	1676	140.8	1.51	77.81	8.37	66.4	1031	251.8	21.5	692	850.2	19.25	84.4	138.1
1299080	11-Sep-11	Soil	384303	6819600	1675	8.7	2.07	35.51	11.17	77.7	303	1082.4	54.7	1059	218.1	33.82	397.5	212.3
1299081	11-Sep-11	Soil	384301	6819655	1675	2.4	24.47	85.2	27.29	184.6	917	21.5	2	24	856.4	4.07	12.3	219.7
1299082	11-Sep-11	Soil	384301	6819702	1674	7.9	13.42	106.27	20.8	46.7	1435	95.8	12.4	582	201.6	3.45	30.4	76.7
1299083	11-Sep-11	Soil	384002	6819749	1630	1.8	1.25	40.57	13.29	116.6	120	65.1	25.2	573	31.9	1.07	41.1	94
1299084	11-Sep-11	Soil	384001	6819701	1632	6	1.84	65.22	48.36	163.5	706	62.7	25.5	855	113.7	3.33	10.1	69
1299085	11-Sep-11	Soil	384000	6819650	1632	23	4.7	69.52	18.19	192.6	583	229.9	23.5	677	262.4	23.17	87.8	106.1
1299086	11-Sep-11	Soil	383999	6819602	1631	58.8	2.33	61.08	33	166.3	1157	98.6	21	921	840.8	16.23	26.3	83.7
1299087	11-Sep-11	Soil	384001	6819553	1632	33.6	1.65	48.87	19.71	123.1	623	197.8	12.7	130	152.1	9.36	114.4	219.4
1299088	11-Sep-11	Soil	384002	6819503	1633	15.6	3.11	70.31	18.41	153.4	694	169	25.9	940	178.2	9.74	64	180.3
1299089	11-Sep-11	Soil	384002	6819455	1635	49.9	4.55	73.8	19.83	119.8	1109	189.9	23	533	505.9	11.19	118.3	153.4
1299090	11-Sep-11	Soil	384003	6819401	1633	12.6	0.92	23.77	6.02	48.9	227	2073.5	85	1056	473.6	45.07	548.5	125.8
1299091	11-Sep-11	Soil	383999	6819350	1630	6.9	2.13	34.09	14.38	87.1	320	378.9	23.5	489	116.4	6.33	261.3	155.4
1299092	11-Sep-11	Soil	384301	6818605	1615	9.9	0.97	12.26	16.07	54.5	116	54.6	8.6	262	72	0.92	44.4	130.4
1299093	11-Sep-11	Soil	384298	6818649	1595	4.4	1.72	27	21.87	76.4	216	239.7	23	573	144.6	3.67	152	117.3
1299094	11-Sep-11	Soil	384300	6818702	1589	4.7	0.89	17.54	14.26	77.1	75	363.6	21.4	402	111.5	2.47	285.6	152.1
1299095	11-Sep-11	Soil	384304	6818749	1588	5.8	1.06	17.02	17.15	71.9	97	108.6	13.1	407	77.4	2.91	60.5	307
1299096	11-Sep-11	Soil	384298	6818800	1586	5.6	1.04	21.6	15.05	71.9	95	194.9	18.9	587	52.6	1.86	107.9	203.9
1299097	11-Sep-11	Soil	384298	6818849	1580	<0.2	0.8	13.14	10.52	56.1	66	479.6	31.2	455	26.3	1.26	527.9	149.2
1299098	11-Sep-11	Soil	384300	6818899	1604	2.9	0.83	13.69	7.17	49.9	69	548	28.9	377	18.7	1.2	556.1	108.6
1299099	11-Sep-11	Soil	384298	6818951	1629	3.7	0.8	14.84	7.48	47.4	93	450.2	26.6	364	19.6	1.63	428.7	107.4
1299100	11-Sep-11	Soil	384299	6819004	1649	0.7	0.79	16.79	7.36	50	72	771	43.6	498	26.2	1.54	791.1	105.6
1299401	12-Sep-11	Soil	384704	6819700	1691	46	1.48	26.5	42.72	89.2	332	51.4	12.6	423	396.6	4.25	34.1	130.5
1299402	12-Sep-11	Soil	384703	6819603	1702	38.3	0.99	61.86	30.77	91.7	481	50.9	9.1	332	226.8	10.63	55.1	252.7
1299403	12-Sep-11	Soil	384702	6819553	1704	103.2	0.95	53.31	43.41	130.9	753	76	15.8	871	638.2	11.04	64.3	192.1
1299404	12-Sep-11	Soil	384699	6819502	1713	20.9	0.57	79.38	7.56	69.5	420	59.4	21.7	1150	135.6	7.68	56.3	331.9
1299405	12-Sep-11	Soil	384702	6819453	1730	32.4	1.28	95.76	9.34	85	553	68.3	24.9	1780	201.8	6.98	55.4	360.9
1299406	12-Sep-11	Soil	384697	6819402	1735	73.6	1.06	108.38	46.43	168.7	3019	227.4	21.2	1464	595	37.54	84.2	308.4
1299407	12-Sep-11	Soil	384700	6819352	1743	9.6	0.31	70.54	6.46	54.5	882	185.3	39.5	1562	97.3	7.38	283.2	125
1299408	12-Sep-11	Soil	384699	6819308	1745	90.2	0.31	52.36	10.68	77.6	1583	174.3	33.4	1107	1146.9	11.05	189.3	121.5
1299409	12-Sep-11	Soil	384703	6819253	1745	40	0.51	22.56	6.11	37.5	918	976.6	46.1	469	428.1	7.46	920.3	89.2
1299410	12-Sep-11	Soil	384700	6819205	1751	3.3	0.95	11.59	12.99	40.9	53	452.6	43.2	566	84	2.31	901.1	108.2
1299411	12-Sep-11	Soil	384698	6819152	1746	2.5	0.4	11.86	9.14	40.8	100	349	17.6	239	16.5	1.1	423.6	138.4
1299412	12-Sep-11	Soil	384699	6819105	1744	4.9	0.45	14.66	8.91	41.4	173	558.5	17.6	301	15.9	2.55	454.5	139.6
1299413	12-Sep-11	Soil	384702	6819054	1741	3.2	0.65	14.61	22.36	38.4	108	527.1	19.5	346	17.4	0.25	484.7	113
1299414	12-Sep-11	Soil	384703	6819002	1736	2.9	0.53	14.03	5.2	46.1	98	698.4	31.5	421	13.3	1.25	744.5	113.8
1299415	12-Sep-11	Soil	384704	6818952	1731	1.9	0.64	16.03	8	46.3	119	687.6	34.4	523	16.6	0.8	758.9	181.1
1299416	12-Sep-11	Soil	384697	6818907	1728	0.8	1.58	11.92	30.41	60.5	55	154.4	21.7	802	41.6	0.55	242.7	89.1
1299417	12-Sep-11	Soil	384701	6818853	1720	0.8	0.76	16.51	10.88	47	107	620.7	25.5	452	18.7	0.87	591.3	144.3
1299418	12-Sep-11	Soil	384700	6818804	1709	5.7	1.06	12.31	10.84	48.6	61	327.1	21.7	378	19.8	2.03	346.3	126

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299419	12-Sep-11	Soil	384698	6818754	1700	1.8	0.24	9.6	9.42	39.6	92	292.7	16	260	13.3	0.87	273.7	153.3
1299420	12-Sep-11	Soil	384794	6818751	1727	7	0.2	23.29	7.99	39	364	496.5	15	146	10.2	2.25	446.8	309.7
1299421	12-Sep-11	Soil	384798	6818801	1729	1.8	0.29	11.98	10.2	38.1	101	397.2	16.6	298	16.7	0.77	345.5	140.3
1299422	12-Sep-11	Soil	384798	6818850	1741	2.6	0.21	10.21	8.15	37	64	421.9	17.7	158	35.2	0.72	400.6	142
1299423	12-Sep-11	Soil	384799	6818899	1746	0.8	0.66	13.08	8.23	43	73	480.4	26.3	458	16.9	0.62	497.1	140.4
1299424	12-Sep-11	Soil	384798	6818951	1750	1.5	0.51	11.38	6.9	38.1	50	312	16.1	259	13.6	0.53	356.4	97.3
1299425	12-Sep-11	Soil	384799	6819001	1756	0.2	0.55	11.52	6.54	33.3	45	661.7	35	360	22.5	1.09	729.4	71.3
1299426	12-Sep-11	Soil	384799	6819050	1760	1.9	0.4	14.56	5.76	32.1	96	747.3	29.9	347	21	1.14	689.8	98.3
1299427	12-Sep-11	Soil	384799	6819101	1759	0.8	0.97	14.88	13.43	49.3	60	439.1	26.2	466	49.6	0.99	671.8	112.3
1299428	12-Sep-11	Soil	384800	6819149	1762	1	0.64	14.97	10.13	40.7	120	535.5	25.2	429	48.6	4.36	590.3	174.2
1299429	12-Sep-11	Soil	384799	6819252	1762	7.6	0.67	23.1	12.32	43.1	484	985	61.6	1224	300.1	7.05	769	222.5
1299430	12-Sep-11	Soil	384801	6819300	1758	22.7	0.24	50.03	4.24	56.9	639	197.1	27.6	564	178.7	7.33	227.9	93.8
1299431	12-Sep-11	Soil	384798	6819348	1757	10.1	1.36	41.61	15.86	60.2	1176	286.2	22.4	639	169.9	11.63	313.2	194.2
1299432	12-Sep-11	Soil	384802	6819398	1753	13.8	0.92	66.24	6.94	72.6	584	188.7	27.4	959	159.6	7.78	154.5	152.4
1299433	12-Sep-11	Soil	384798	6819448	1745	151.8	2.64	48.04	38.65	166.2	1459	75.8	11.6	654	786.1	13.26	57.2	262.8
1299434	12-Sep-11	Soil	384799	6819497	1731	50.9	0.79	50.52	14.12	69.3	718	86.5	15.9	635	357.7	7.72	87.2	170.8
1299451	11-Sep-11	Soil	384299	6819052	1663	2.5	0.2	8.68	7.14	35.7	81	491	21.3	216	12.8	0.6	562.9	95.5
1299452	11-Sep-11	Soil	384297	6819104	1665	1.6	0.04	13.89	7.57	49.5	48	330.4	16.3	141	2.9	0.88	549.5	108
1299453	11-Sep-11	Soil	384299	6819145	1667	6.1	0.19	20.16	5.63	49.4	218	737.3	26.5	530	26.2	3.08	524.7	144.2
1299454	11-Sep-11	Soil	385197	6819698	1659	20.5	2.01	46.9	17.84	108.6	638	84.3	16.2	496	186	4.05	67.1	98.7
1299455	11-Sep-11	Soil	385201	6819654	1668	21.8	2.31	56.42	21.84	114.9	731	85.7	19.2	676	217.4	4.46	60.4	108.8
1299456	11-Sep-11	Soil	385201	6819601	1679	33.5	2.24	72.92	16.97	122.8	818	94.9	22.2	643	255.2	4.61	64.6	117.5
1299457	11-Sep-11	Soil	385201	6819551	1695	35.1	2.05	68.87	20.51	112.9	914	94.4	20.5	672	350.4	6.39	65.2	127.1
1299458	11-Sep-11	Soil	385197	6819499	1718	50.3	2.25	61.88	19.07	78.6	1003	83.3	17	675	477.3	6.65	55.5	153.7
1299459	11-Sep-11	Soil	385201	6819451	1736	4.4	1.07	30.64	25.62	58.1	271	106.2	10.9	396	71.2	3.6	95.7	118.1
1299460	12-Sep-11	Soil	384903	6818749	1753	7.3	0.62	20.21	6.21	46.1	178	931.8	36.8	311	24.5	1.96	692.7	85.6
1299461	12-Sep-11	Soil	384899	6818802	1754	8.3	0.54	13.01	11.53	44	66	312.1	21.4	345	31	0.77	284.6	157.6
1299462	12-Sep-11	Soil	384900	6818852	1762	2.9	0.34	15.26	10.04	46.2	54	472.5	23.4	230	18	0.72	433.2	143.1
1299463	12-Sep-11	Soil	384899	6818903	1771	1.8	0.86	14.12	7.59	48.4	34	503.2	32.3	433	19.4	0.68	498.9	108
1299464	12-Sep-11	Soil	384899	6818953	1776	1.6	0.91	12.24	18.92	56.2	62	361.1	36.5	590	45.7	0.34	419.4	123.2
1299465	12-Sep-11	Soil	384901	6819002	1779	6.3	0.88	16.61	7.03	51.7	46	585.3	27.4	356	10.6	0.68	482	98.4
1299466	12-Sep-11	Soil	384900	6819052	1780	1.4	0.67	15.77	7.23	45.5	76	1005.3	41.9	524	20	0.9	749.6	114.4
1299467	12-Sep-11	Soil	384896	6819098	1784	0.9	0.75	15.26	9.01	45.3	66	636.8	33.5	427	37.4	1.09	713	104.6
1299468	12-Sep-11	Soil	384898	6819148	1788	1.7	0.74	18.09	9.08	51.4	149	759.7	24.9	313	68.2	7.57	589.4	131
1299469	12-Sep-11	Soil	384900	6819199	1787	4.2	0.89	18.47	8.59	62.1	107	1071.4	61.8	765	51.4	6.1	654.4	143.4
1299470	12-Sep-11	Soil	384903	6819251	1785	4.1	0.39	62.43	5.14	68.6	186	193.4	29.1	580	60.5	12.34	187.2	124.9
1299471	12-Sep-11	Soil	384899	6819298	1782	72.5	0.48	67.4	28.22	86.2	2619	191.3	26.2	777	426.5	13.17	158.4	214.1
1299472	12-Sep-11	Soil	384899	6819352	1777	207.9	0.89	69.28	135.18	118.9	8713	201.8	31.5	1743	1831.4	33.36	174.8	202.3
1299473	12-Sep-11	Soil	384899	6819398	1764	23.5	1.27	109.81	14.96	106.8	1461	140.4	34.5	2817	307	17.98	85.5	363.7
1299474	12-Sep-11	Soil	384901	6819449	1748	460.4	0.85	85.31	14.6	98.9	1509	78.9	32.8	1512	2007.3	11.42	70.3	169.1
1299475	12-Sep-11	Soil	384900	6819498	1736	27.7	1.02	68.55	15.93	83.4	1124	117.6	17.6	636	269.5	9.39	121.7	209.5

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299476	12-Sep-11	Soil	384899	6819549	1715	149.2	1.84	67.02	32.15	324.4	974	66.2	17.6	1077	1383.8	11.06	55.2	276.3
1299477	12-Sep-11	Soil	384901	6819599	1701	57.2	1.41	52.96	22.01	102.3	1492	123.8	16.5	472	514.2	9.75	118.8	199.7
1299478	12-Sep-11	Soil	384899	6819650	1690	85.8	2.14	76.38	22.71	117.6	1125	97	18.6	673	786	11.18	72.5	193.7
1299479	12-Sep-11	Soil	384900	6819702	1681	31.8	1.99	53.08	22.07	97.2	607	78.4	16.6	775	357.6	5.77	48.4	189.8
1299480	12-Sep-11	Soil	384802	6819701	1689	62.2	1.96	42.1	32.84	107.8	774	77.6	19.9	676	561.2	8.6	49	240.6
1299481	12-Sep-11	Soil	384809	6819650	1694	79.4	1.09	49.91	24.06	71.2	778	62.1	13.7	885	462.8	6.03	39.5	219.7
1299482	12-Sep-11	Soil	384801	6819599	1703	52	1.42	77.54	18.95	89.8	730	65.5	18.9	832	467.6	6.11	33.4	171
1299483	12-Sep-11	Soil	384801	6819550	1717	90.8	0.76	38.17	22.58	69	917	37.7	10	373	664.4	5.33	28.6	185.5
1299501	11-Sep-11	Soil	384402	6819302	1710	2.4	0.72	18.38	8.21	64.5	89	1090.9	61.1	897	65.6	8.52	666.5	137.7
1299502	11-Sep-11	Soil	384403	6819349	1718	5.6	0.8	22.32	8.14	65.5	194	1168.2	59.7	882	85.3	12.42	613.2	111.7
1299503	11-Sep-11	Soil	384401	6819397	1727	1.9	0.92	19	7.91	56	136	898.1	56.6	967	115.1	17.88	420.1	147.6
1299504	11-Sep-11	Soil	384398	6819446	1734	12.7	1.03	19.15	7.71	65.3	207	1515.9	55.3	639	365	53.48	536.1	88.2
1299505	11-Sep-11	Soil	384401	6819500	1718	2625.3	2.99	110.52	11.09	93.1	9298	628.4	53.2	2766	>10000	85.57	83.3	885.6
1299506	11-Sep-11	Soil	384398	6819546	1708	28	1.25	22.03	9.07	65.6	182	1393.8	49.3	561	368.6	43.45	289.5	152.6
1299507	11-Sep-11	Soil	384396	6819603	1697	8	0.26	23.3	3.39	39.1	104	2180.7	112.2	867	94	16.2	1490.2	63
1299508	11-Sep-11	Soil	384398	6819646	1695	388.8	0.74	82.81	81.88	370.3	3766	569.1	54.2	808	2075.9	40.69	267.9	203.3
1299509	11-Sep-11	Soil	384400	6819698	1699	8.5	18.31	106.48	35.84	210.5	556	88.1	6.4	97	138.9	3.34	33.1	248.8
1299510	11-Sep-11	Soil	384601	6819697	1707	47	1.08	38.81	16.18	93.9	513	84	20.6	1146	367.3	4.24	56.7	172.9
1299511	11-Sep-11	Soil	384604	6819648	1715	20.9	1.54	51.72	14.89	125.2	460	249.3	36.8	2999	341.9	5.27	141.9	252.1
1299512	11-Sep-11	Soil	384599	6819601	1719	76.8	2.24	61.08	321.68	114.5	2508	121.1	27.7	1199	1004.7	14.51	74.9	173.8
1299513	11-Sep-11	Soil	384605	6819550	1725	56.9	1.37	47.91	30.4	110.4	682	154.4	19.1	867	521.6	8.29	132.7	125.2
1299514	11-Sep-11	Soil	384602	6819503	1736	6.1	0.84	42.4	11.07	64.5	174	274.3	23.7	830	317.8	5.79	327.6	360.4
1299515	11-Sep-11	Soil	384599	6819454	1746	29.5	0.54	67.51	5.45	80.6	361	378	49.8	905	202.3	7.93	230.5	265.3
1299516	11-Sep-11	Soil	384596	6819401	1750	4.9	0.87	21.23	10.24	64	342	1165.4	48.7	662	68.3	5.26	379.5	111.5
1299517	11-Sep-11	Soil	384598	6819352	1747	4.2	0.71	19.32	9.97	67.8	240	1457	58.1	802	104	5.56	575.1	128.2
1299518	11-Sep-11	Soil	384598	6819301	1743	7.4	0.6	23.35	10.46	57.6	500	1312.5	62.8	596	83.9	20.69	758.7	100.8
1299519	11-Sep-11	Soil	384602	6819250	1739	7.8	1.16	24.74	16.99	61.7	498	616.8	30.4	518	189.1	4.36	772.9	129.3
1299551	11-Sep-11	Soil	384102	6819050	1614	2.1	0.68	14.39	7.82	52.9	82	467.8	28.7	405	30.6	1.67	461.9	146.8
1299552	11-Sep-11	Soil	384099	6819097	1608	4.8	0.59	15.42	6.83	52.3	146	535.5	24.2	273	23.4	2.23	411	121.1
1299553	11-Sep-11	Soil	384099	6819152	1626	2.4	0.77	16.1	6.02	47.4	136	787.7	35.3	445	35.6	3.34	526.1	95.1
1299554	11-Sep-11	Soil	384100	6819199	1641	2.7	0.43	12.12	4.22	39.9	163	757.7	29.3	276	29.6	3.33	617	74.9
1299555	11-Sep-11	Soil	384100	6819254	1649	1.1	1.1	12.46	12.22	73.9	190	544.2	65	930	48.1	5.47	620.2	141.5
1299556	11-Sep-11	Soil	384099	6819297	1647	5	0.84	19.75	8.33	74.1	155	1103.3	63.8	963	124.9	14.36	857.4	166.7
1299557	11-Sep-11	Soil	384202	6818603	1602	4.5	0.96	13.97	13.15	57.9	69	31.4	8.1	394	108.5	0.64	30.2	96.8
1299558	11-Sep-11	Soil	384199	6818649	1595	0.6	0.75	5.55	13.48	25.5	35	17	3.5	115	35.1	0.39	28.5	59.6
1299559	11-Sep-11	Soil	384201	6818701	1587	9.2	2.08	35.36	14.47	68.8	218	331.5	26.7	471	63.2	3.49	179.8	121.4
1299560	11-Sep-11	Soil	384201	6818749	1572	5.7	1.24	21.47	14.11	66.3	113	122.6	10.4	319	62.8	2.75	67.6	158.2
1299561	11-Sep-11	Soil	384198	6818791	1559	6.9	1.3	21.03	17.33	87.3	208	82.1	10.9	471	70.5	2.28	60.9	145.8
1299562	11-Sep-11	Soil	384200	6818847	1559	2.2	0.6	11.57	6.88	46.2	58	508.7	26.5	307	21.8	1.32	434.2	88.8
1299563	11-Sep-11	Soil	384198	6818904	1589	3.1	0.73	15.82	6.43	42.3	78	805.8	39.3	319	28.9	1.57	329.4	107
1299564	11-Sep-11	Soil	384200	6818951	1615	7.4	0.71	15.24	5.97	47.9	75	561.5	35.5	355	11.5	0.85	457.1	105.6

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299565	11-Sep-11	Soil	384198	6818998	1637	2.5	0.43	10.29	7.92	44.6	64	382.5	23.6	273	16.3	0.86	419.8	97.7
1299566	11-Sep-11	Soil	384200	6819096	1649	2.7	0.3	10.17	8.15	54.8	93	369.7	21.6	273	23.1	2.01	392.8	113.6
1299567	11-Sep-11	Soil	384199	6819149	1647	2.5	0.74	15.35	8.14	52.9	210	710.7	51.6	684	70.9	5.35	617.6	123.2
1299568	11-Sep-11	Soil	384202	6819199	1657	6.5	0.58	12.77	6.32	47.5	102	881	42.3	504	45.8	3.69	759.1	91.4
1299569	11-Sep-11	Soil	384200	6819250	1662	6.6	0.53	14.65	3.56	37.3	205	1614.8	61.2	671	47.3	3.82	984.2	60.7
1299570	11-Sep-11	Soil	384099	6819348	1651	0.8	0.67	14.99	7.53	58	166	929.3	76	1094	73.3	7.17	1056.5	90.9
1299571	11-Sep-11	Soil	384098	6819398	1655	1.3	0.67	12.92	9.23	107.3	64	872.6	83.1	1530	89.4	4.58	936.9	148.6
1299572	11-Sep-11	Soil	384099	6819445	1651	2.6	0.81	18.33	10.99	62.3	88	1009.1	69.3	1086	162.3	9.72	896.5	183.9
1299573	11-Sep-11	Soil	384100	6819500		72.7	2.55	62.94	13.5	101.8	989	577.2	46.9	1381	638.9	15.93	252.9	205.2
1299574	11-Sep-11	Soil	384103	6819548	1644	55.8	2.33	56.24	17.04	99.3	820	449.2	34.1	1067	436.4	12.15	184.6	133
1299575	11-Sep-11	Soil	384099	6819598	1640	36.8	1.2	58.94	19.27	82.9	990	244.4	28.4	727	314.2	3.82	143.9	84.7
1299576	11-Sep-11	Soil	384103	6819645	1646	14.9	4.56	67.18	56.83	137.3	973	202.8	22	579	89.5	3.1	212.4	112.6
1299577	11-Sep-11	Soil	384100	6819699	1644	3.3	2.07	36.52	27.55	136.8	444	112.3	19.4	1289	36.1	1.17	109.5	74.4
1299578	11-Sep-11	Soil	384198	6819704	1658	2.1	3.98	51.9	14.03	253.9	224	51.4	30.6	1818	142.7	0.58	10.3	134
1299579	11-Sep-11	Soil	384201	6819655	1660	9.7	5.21	90.8	21.62	135.7	692	58.4	11.6	227	85.8	2.03	43.5	82.9
1299580	11-Sep-11	Soil	384200	6819554	1659	128	1.9	59.97	37.91	143.7	1197	98.7	30.7	1224	973.4	6.14	17.8	122.7
1299581	11-Sep-11	Soil	384199	6819505	1661	39.8	1.58	61.25	15.72	83.7	678	441.4	48.2	771	410.2	14.48	157.2	177.2
1299582	11-Sep-11	Soil	384200	6819456	1663	42	1.17	38.76	8.99	75.4	512	1983.1	64	631	1033.3	123.99	640.2	235
1299583	11-Sep-11	Soil	384199	6819397	1656	4	0.34	16.7	4.3	46.8	79	2549.1	106.8	1172	402.4	54.04	1308.9	128.7
1299584	11-Sep-11	Soil	384199	6819355	1666	3.6	0.85	18.63	7.38	52.8	144	934.8	43.3	684	113.4	12.38	516.2	135.7
1299585	11-Sep-11	Soil	384202	6819296	1659	3.4	0.45	23.32	4.1	36.5	83	1941.4	82.5	1132	56.8	4.75	1419.5	80.9
1299586	11-Sep-11	Soil	385203	6818751	1832	1.8	1.32	16.18	19.54	77.9	144	23.9	13.2	653	25.7	1.02	21	123.1
1299587	11-Sep-11	Soil	385200	6818799	1832	3.6	1.44	22.86	17.89	76.4	191	28.8	12.1	431	29.9	3.12	19.3	119.7
1299588	11-Sep-11	Soil	385200	6818849	1830	41.2	0.73	40.08	13.94	75.8	657	612.7	30.3	269	213.5	17.08	302.5	122.2
1299589	11-Sep-11	Soil	385202	6818897	1828	52.1	0.72	40.26	10.16	72.8	800	1169.8	52.3	879	1221.6	26.71	606.6	155.8
1299590	11-Sep-11	Soil	385198	6818950	1828	7.8	0.51	18.24	15.09	72.5	138	1086	53.3	570	88	4.83	693.8	150.6
1299591	11-Sep-11	Soil	385201	6819001	1827	2.8	0.43	15.81	3.82	35.1	58	1722	75	817	36.6	1.2	1296.4	99.4
1299592	11-Sep-11	Soil	385197	6819050	1834	3.2	0.3	10.4	6.24	42.4	41	740.4	36.8	452	11.9	0.89	580.4	110.3
1299593	11-Sep-11	Soil	385199	6819099	1830	2.3	0.67	12.95	6.05	42.2	45	1021.6	45.3	651	11.3	0.72	875.4	101.9
1299594	11-Sep-11	Soil	385200	6819148	1820	4.1	0.69	25.69	4.72	43.4	125	1129.4	51.7	527	40	2.51	795.7	79.3
1299595	11-Sep-11	Soil	385201	6819201	1819	9.5	1.01	47.28	13.62	76.5	535	400.2	26.8	849	125.2	6.59	214.8	180.3
1299596	11-Sep-11	Soil	385198	6819252	1806	9.1	0.55	60.58	7.36	88.3	484	164.2	35.8	1771	68.9	16.6	102.2	216.9
1299597	11-Sep-11	Soil	385200	6819296	1795	28.9	1.43	88.55	12.28	84.7	1513	82.8	16.8	724	203	20.99	45.5	267.1
1299598	11-Sep-11	Soil	385201	6819351	1778	15.6	1.07	57.07	12.05	82.3	611	136.6	17	819	137	10.89	94	222.3
1299599	11-Sep-11	Soil	385198	6819397	1759	11.1	1.15	51.5	23.78	99.2	398	112.3	14.9	549	122.3	8.03	92.9	187.3
1299600	11-Sep-11	Soil	385200	6819445	1741	6.9	1.38	28.14	28.57	62.2	239	74.3	9.8	363	69.7	3.14	60.3	110
1299601	9-Sep-11	Soil	383301	6819602	1546	17.2	1.68	29.18	42.6	86.1	167	136.9	20.8	541	1005	22.06	72.1	552.4
1299602	9-Sep-11	Soil	383298	6819653	1540	78.2	1.91	43.39	28.09	102.6	1477	94.3	14.3	494	815.6	14.91	72.1	398.8
1299603	9-Sep-11	Soil	383301	6819702	1538	214.3	1.48	73.65	58.24	176.6	2746	533.2	65.6	1374	2201.1	37.73	54.5	299.2
1299604	9-Sep-11	Soil	383301	6819750	1533	95.1	2.1	45.71	27.97	133.1	1819	121.4	19.9	649	714.6	9.95	60.3	301.7
1299605	9-Sep-11	Soil	383302	6819802	1535	27.5	7.76	88.26	28.51	503.3	1317	94.5	12.8	613	225.5	14.11	14.6	174.8

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299606	9-Sep-11	Soil	383300	6819850	1534	11.4	1.3	21.2	15.58	73.2	543	33.3	17.9	1071	65.2	2.45	23.7	253.8
1299607	9-Sep-11	Soil	383300	6819904	1534	36.2	2.3	38.7	25.23	80	1251	97.6	12.9	406	423.9	9.13	74	404.5
1299608	9-Sep-11	Soil	383298	6819952	1530	10.2	0.48	10.12	7.97	19.5	1465	13.8	2.4	62	67.4	1.33	25.9	150.6
1299609	9-Sep-11	Soil	383301	6820000	1524	14.6	1.89	38.89	24.86	133.8	1373	43.5	5.1	122	68.1	4.58	37.8	231.6
1299610	9-Sep-11	Soil	383297	6820050	1519	5.4	2.15	30.19	13.51	76.7	501	37.1	8.7	344	35.2	1.62	43.5	244.3
1299611	9-Sep-11	Soil	383301	6820096	1524	28.6	1.69	39.22	22.42	145.9	148	44.9	20.2	713	136	2.79	17.5	247.1
1299612	9-Sep-11	Soil	383303	6820151	1522	7.2	1.7	22.03	13.1	76.4	80	44.3	12.2	421	31.9	1.35	58.8	171.9
1299613	9-Sep-11	Soil	383300	6820205	1519	3.1	1.4	25.06	11	60.7	309	36.2	8.9	275	17.1	1.09	60.3	192.2
1299614	10-Sep-11	Soil	383801	6819349	1597	12.7	1.14	23.98	13.18	61.8	146	115.7	12.7	399	170.9	4.42	81.7	185
1299615	10-Sep-11	Soil	383801	6819298	1581	20.4	0.9	19.73	10.06	61.2	212	118.9	11.8	308	96	3.45	74.1	151.2
1299616	10-Sep-11	Soil	383805	6819252	1564	17.6	0.83	23.13	9.01	59.8	234	146.2	12.5	269	106.7	4.35	90	124.9
1299617	10-Sep-11	Soil	383802	6819201	1548	16.9	0.89	24.19	11.54	73.1	348	175.7	13.3	282	163.7	5.9	93.4	200.4
1299618	10-Sep-11	Soil	383798	6819150	1535	5.2	1.05	32.77	12.94	97	392	510.1	15.4	337	146	5.88	236.9	222.3
1299619	10-Sep-11	Soil	383802	6819098	1522	2	1.12	15.81	13.63	73.8	84	208.1	18.7	421	59.3	2.95	251.6	197.2
1299620	10-Sep-11	Soil	383801	6819048	1509	3.6	1.51	18.1	11.98	77.7	169	131.9	16.8	527	35.9	1.95	162.4	266
1299621	10-Sep-11	Soil	383804	6818997	1499	15.1	0.64	14.21	10.8	75.3	191	219.8	16.3	270	50.6	2.03	193	184.1
1299622	10-Sep-11	Soil	383801	6818954	1506	10.3	1.25	21.01	15.57	79.4	168	39.4	9.8	448	75.5	1.11	31.7	101.3
1299623	10-Sep-11	Soil	383800	6818899	1521	13.7	1.82	35.36	18.05	85.9	310	43.4	11.9	504	99.8	2.18	29.9	109.4
1299624	10-Sep-11	Soil	383801	6818850	1534	8.8	1.07	19.63	12.66	65	111	26.5	10.8	496	56.2	0.76	22.3	102.1
1299625	10-Sep-11	Soil	383798	6818800	1542	4.5	0.88	14.41	14.41	71.4	163	39.8	7.7	318	52	1.45	29.4	127.2
1299626	10-Sep-11	Soil	383799	6818748	1546	13.7	1.02	28.89	21.58	67.2	1020	188.2	22	1663	245.3	9.31	124.2	232.2
1299627	10-Sep-11	Soil	383801	6818697	1537	12.7	1.22	22.41	14.76	82.3	47	33.1	13.2	523	92.3	0.61	25.3	105.2
1299628	10-Sep-11	Soil	383803	6818652	1528	4.4	1.58	18.5	28.05	79.9	155	24.1	12.8	811	72.6	0.67	23.6	51
1299629	10-Sep-11	Soil	383704	6818702	1523	2230.9	0.62	100.98	8.73	73.7	13093	719.1	53.3	699	>10000	116.59	77.2	207.1
1299630	10-Sep-11	Soil	383694	6818796	1547	68.6	1.02	26.96	14.56	71.2	2061	1342	62	1124	813.6	68.93	307.8	155.7
1299631	10-Sep-11	Soil	383698	6818850	1540	81	0.88	37.27	13.95	79.7	7300	723.5	39.6	720	756.4	39.68	129.9	144.2
1299632	10-Sep-11	Soil	383701	6818902	1519	17.5	0.97	29.94	15.21	79.7	841	472.8	30.5	654	351.7	21.26	81	143.4
1299633	10-Sep-11	Soil	383704	6818954	1500	5.7	0.94	18.8	15.76	72.8	398	79.6	10.5	396	119.3	5.63	50.5	182.5
1299634	10-Sep-11	Soil	383698	6819005	1488	5	0.9	15.73	13.08	67.1	234	37.7	6.8	295	63	2.01	31.5	149
1299635	10-Sep-11	Soil	383699	6819055	1478	36.1	1	28.27	12.69	75	398	334.9	25.8	538	207.2	6.82	205.4	146.9
1299636	10-Sep-11	Soil	383701	6819109	1489	3.4	1.1	17.14	10.26	74.8	90	73.6	10.6	318	35.2	1.45	50.2	190.7
1299637	10-Sep-11	Soil	383699	6819147	1509	5.4	0.9	26.68	7.37	60.8	224	538.2	13.4	344	55.4	2.03	100.7	275
1299638	10-Sep-11	Soil	383700	6819205	1530	32	0.81	23.85	9.83	76	439	365	23.6	335	260.8	6.78	235.9	139.1
1299639	10-Sep-11	Soil	383701	6819244	1548	17.8	0.59	15.75	5.67	42.2	338	276.2	12.5	155	139.7	4.63	136.3	114.7
1299640	10-Sep-11	Soil	383700	6819302	1567	45.5	0.84	25.73	14.32	84.4	759	458.2	29.5	411	260.9	12.53	259.1	110.7
1299641	10-Sep-11	Soil	383698	6819353	1578	5	0.96	19.55	10.86	62	293	402.9	25.4	503	93.5	3.35	375.5	188.3
1299642	10-Sep-11	Soil	383697	6819401	1589	7.7	0.71	15.92	7.35	45	154	855	60.4	645	110.3	4.72	640.3	122.7
1299643	10-Sep-11	Soil	383798	6819400	1604	6.2	1.11	21.77	22.54	60.7	762	748.7	52.2	936	222.1	24.09	563.2	141.2
1299644	10-Sep-11	Soil	383798	6819449	1611	4	0.92	10.51	8.88	54.7	33	208.4	21.2	355	58.9	2.34	283.1	120.8
1299645	10-Sep-11	Soil	383799	6819498	1614	10.6	0.81	16.77	10.44	38.6	129	800.3	74.3	792	299.5	4.16	623.2	129.1
1299646	10-Sep-11	Soil	383802	6819553	1610	43.3	1.7	42.1	15.22	91.9	653	360.5	29.9	620	349.1	8.37	233.5	164.5

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299647	10-Sep-11	Soil	383806	6819595	1606	48	2.08	53.63	26.76	147.8	691	146.4	32.1	1228	604	10.01	58.2	165.4
1299648	10-Sep-11	Soil	383799	6819650	1606	50.4	1.68	33.1	19.09	62.3	999	61.2	36.5	2577	507.5	6.82	34.9	321
1299649	10-Sep-11	Soil	383799	6819703	1606	83.1	2.53	62.46	37.51	121	1246	145.9	24.1	663	1032.9	19.27	34	197.1
1299650	10-Sep-11	Soil	383801	6819750	1605	10.2	4.91	60.33	20.68	120.8	618	39.7	10.2	377	74.1	9.36	22.4	154
1299651	9-Sep-11	Soil	383203	6819155	1510	7.4	2.01	19.44	10.02	98.9	129	40.8	9.2	340	39.1	4.05	30.8	173.3
1299652	9-Sep-11	Soil	383203	6819100	1479	16.4	2.45	21.36	14.05	122	205	55.2	14.1	658	106.4	5.03	32.5	174
1299653	9-Sep-11	Soil	383201	6819004	1429	8.7	2.53	27.4	15.72	118.5	271	71.6	12.1	424	75.9	6.2	45.3	367
1299654	9-Sep-11	Soil	383206	6818948	1419	7.8	1.51	26.89	20.07	119.6	233	102.8	20.4	823	156	4.07	101.9	79.9
1299655	10-Sep-11	Soil	385400	6818755	1882	2.2	8.6	33.85	81.68	535.3	415	62.7	17.9	436	27.3	0.54	10.6	57.2
1299656	10-Sep-11	Soil	385397	6818800	1880	2	1.55	24.55	18.42	78.3	216	23.9	15.3	763	18.2	0.65	19.1	120.9
1299657	10-Sep-11	Soil	385400	6818847	1884	0.6	2.48	25.87	22.61	143.7	199	29.9	13.3	611	18	0.41	17.4	183.5
1299658	10-Sep-11	Soil	385402	6818900	1880	1.6	3.28	35.67	28.62	186.3	252	33.7	15.3	334	35.8	0.54	21.6	104.4
1299659	10-Sep-11	Soil	385402	6818947	1877	1.7	1.84	51.42	32.31	168.5	130	63.4	30.5	412	16.5	0.36	47.3	96.5
1299660	10-Sep-11	Soil	385400	6819047	1852	15.5	0.9	109.68	7.92	84.7	444	109.8	31.5	1191	111.4	18.33	99.9	246.7
1299661	10-Sep-11	Soil	385400	6819097	1837	22.7	1.48	113.78	19.88	87.3	396	35.4	19.1	1630	135	7.9	8.1	418.9
1299662	10-Sep-11	Soil	385399	6819147	1817	114.6	1.23	90.08	19.19	87.2	1771	94.6	25	1628	758.9	21.48	38	341.6
1299663	10-Sep-11	Soil	385401	6819198	1790	27.7	1.45	87.36	19.3	99	813	93.1	19.1	886	282.6	16.18	44.3	180.9
1299664	10-Sep-11	Soil	385398	6819249	1764	17.4	2.15	74	18.42	104.9	603	162.1	22.3	1019	244.1	13.47	76.6	167.6
1299665	10-Sep-11	Soil	385402	6819299	1749	3.1	1.98	39.05	24.08	124.1	233	36.8	16.3	748	41.1	1.57	28	180.6
1299666	10-Sep-11	Soil	385399	6819350	1733	1	0.94	27.91	28.32	69.9	190	22.7	9.9	501	20.7	0.45	24.6	397.4
1299667	10-Sep-11	Soil	385401	6819401	1715	4.4	1.49	48.12	16.51	108.8	172	59.4	25.7	918	77.5	0.52	27.1	110.8
1299668	10-Sep-11	Soil	385401	6819447	1707	4.7	1.57	19.99	18.06	88.3	53	28	10	388	35.6	0.77	28.7	91.7
1299669	10-Sep-11	Soil	385400	6819497	1691	1.4	1.25	31.56	18.05	94.3	65	33.5	18.3	985	13.1	0.32	31.5	117
1299670	10-Sep-11	Soil	385401	6819548	1683	2	1.32	22.49	44.03	97.9	89	29.6	13.2	636	39	0.58	28.5	170.5
1299671	10-Sep-11	Soil	385400	6819597	1674	1.9	2.58	36.08	46.84	140.2	195	44.1	19.8	794	61.4	1.03	26.1	186.7
1299672	10-Sep-11	Soil	385399	6819648	1664	1.9	5.21	32.85	187.65	133.7	484	35.8	14.2	454	25.1	0.68	20.5	143.4
1299673	10-Sep-11	Soil	385400	6819699	1652	1.3	1.66	36.79	47.16	120.7	226	41.7	18.4	508	34.1	0.48	39.7	104.6
1299674	10-Sep-11	Soil	384995	6818756	1773	5.1	0.82	34.75	10.38	75.8	393	698.5	42.9	1038	70.1	5.76	557.4	165.9
1299675	10-Sep-11	Soil	384999	6818798	1777	1.6	0.7	15.13	7.79	52.5	75	1222.1	68	834	26.7	1.04	1166.3	102.3
1299676	10-Sep-11	Soil	385003	6818852	1780	1.4	0.6	13.77	11.74	42.8	58	410.2	25.5	349	40.4	0.54	404	132.4
1299677	10-Sep-11	Soil	384997	6818947	1789	2.6	0.93	13.43	11.11	47.9	44	488.6	31.7	409	34	0.62	577.1	96.6
1299678	10-Sep-11	Soil	384999	6818997	1794	1.1	1	15.62	10.5	44.6	31	797.4	46.4	550	21	0.76	732.3	144.1
1299679	10-Sep-11	Soil	385000	6819047	1798	1.3	0.81	16.13	8.96	47.7	55	686	45.7	593	25	1.15	892.8	125.8
1299680	10-Sep-11	Soil	384997	6819102	1798	1.2	0.82	13.51	9.03	53.8	77	1104.2	85.9	1302	36.9	0.46	1443.2	183.8
1299681	10-Sep-11	Soil	384996	6819148	1798	7	0.96	25.66	10.03	73.5	266	1310.4	59.3	663	127.7	20.08	605.8	130.6
1299682	10-Sep-11	Soil	384997	6819200	1792	4.1	0.53	53.76	4.45	47.9	174	598.8	34.9	604	54.9	6.9	646	184.9
1299683	10-Sep-11	Soil	384997	6819301	1789	17.2	1.02	42.74	13.03	65.3	201	221.6	26.3	870	71.2	16.25	291.4	160
1299684	10-Sep-11	Soil	385002	6819350	1777	12.1	1.08	118.36	12.99	88.2	752	155	27.8	1318	131	9.48	127.6	211.2
1299685	10-Sep-11	Soil	384999	6819397	1765	6.4	0.71	92.26	8.48	70.6	347	165.3	17.6	655	55	5.6	120.9	163.8
1299686	10-Sep-11	Soil	385000	6819446	1752	5	0.8	71.81	9.6	66.3	338	128.8	18.6	680	55.9	5.74	130	177.9
1299687	10-Sep-11	Soil	385000	6819500	1732	3.4	0.81	61.16	11.4	72.1	307	147.5	19	785	55	4.47	176	227

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299688	10-Sep-11	Soil	385000	6819544	1713	18.7	0.79	39.29	15.03	65.8	671	191.8	16.9	445	147.9	3.92	211.1	172.9
1299689	10-Sep-11	Soil	385002	6819599	1694	18.7	1.13	54.86	18.91	77.4	1190	199.9	19.9	535	177.5	5.2	199.1	175.8
1299690	10-Sep-11	Soil	385000	6819649	1679	58.7	1.38	62.21	19.67	85	1517	146.9	21.4	657	440.1	5.88	145.1	144.3
1299691	10-Sep-11	Soil	385003	6819702	1663	40	1.46	57.24	16.21	89.4	1106	173	27.6	691	353.7	5.53	149.1	114.8
1299692	11-Sep-11	Soil	384105	6818551	1587	4.1	1.07	7.82	14.78	40.3	108	21.7	5.5	211	20.9	0.35	29.8	167.9
1299693	11-Sep-11	Soil	384099	6818597	1583	2.4	1.1	12.46	20.62	52.9	54	24.3	8.3	376	18.4	0.48	22.2	76.5
1299694	11-Sep-11	Soil	384104	6818647	1582	2.5	1.03	11.85	13.5	47	34	18.4	6	211	40.8	0.48	23.7	64.2
1299695	11-Sep-11	Soil	384101	6818698	1577	5.4	1.01	10.97	13.64	44.7	133	19.4	6.4	228	52.8	0.51	26.4	78.4
1299696	11-Sep-11	Soil	384102	6818746	1571	8.9	1.57	16.27	15.48	56.8	136	25	6.3	236	53.9	0.97	30.2	101.4
1299697	11-Sep-11	Soil	384100	6818798	1557	10.2	1.52	36.19	20.61	90.2	389	612	40.2	749	108	4.4	288.2	161.7
1299698	11-Sep-11	Soil	384097	6818848	1539	2	1.07	13.66	12.95	60.5	68	232	24.2	405	33.1	1.46	187	155.3
1299699	11-Sep-11	Soil	384099	6818952	1584	1.6	0.74	13.48	7.5	48.5	73	381.6	24.3	315	16.5	0.85	281.7	118
1299700	11-Sep-11	Soil	384098	6818996	1609	2.3	0.75	15.76	6.59	46.1	62	598.4	30.4	329	17.4	0.93	494.4	109.4
1299701	10-Sep-11	Soil	383396	6818902		16.4	0.87	25.92	23.16	130.3	564	66.1	13.2	344	128.1	2.11	47.7	102.6
1299702	10-Sep-11	Soil	383397	6818956		3.7	0.79	8.17	8.16	39	153	18.5	4.2	128	95.3	1.13	19.6	99.5
1299703	10-Sep-11	Soil	383397	6819101		8.2	1.82	22.41	13.12	87.8	351	143.1	14.7	334	100.3	3.84	125.7	257.9
1299704	10-Sep-11	Soil	383399	6819149		22.2	2.27	37.49	17.58	117.7	560	404.6	30	654	239.4	8.46	254.3	252.7
1299705	10-Sep-11	Soil	383403	6819236		14.7	1.31	29.57	12.31	95	403	318.1	22.7	432	118.8	5.52	200.1	295.4
1299706	10-Sep-11	Soil	383402	6819307		9	1.09	18.13	11.11	66	252	390.1	32.3	515	106.5	4.38	382.2	169.4
1299707	10-Sep-11	Soil	383402	6819352		20.5	1.72	37.02	15.53	112.1	511	406.4	27.3	639	218.8	8.97	230.1	243.4
1299708	10-Sep-11	Soil	383396	6819399		24.1	1.7	34.81	14.06	117.8	621	351.7	16.9	342	183.4	8	167.5	258.2
1299709	10-Sep-11	Soil	383401	6819447		7.6	0.9	17.04	18.59	53.8	728	444.8	15.9	330	161.8	4.98	136	616
1299710	10-Sep-11	Soil	383405	6819500		39.5	2.24	46.11	17.15	103.2	1474	318.7	22.4	387	363.7	12.59	112.4	265.9
1299711	10-Sep-11	Soil	383405	6819549		23.4	1.03	17.17	14.05	66.7	236	96.5	9.2	224	235.3	6.14	50.7	290.5
1299712	10-Sep-11	Soil	383399	6819597		36.3	1.99	41.76	18.81	113.8	562	108.2	16	422	241.8	6.21	52.9	384.8
1299713	10-Sep-11	Soil	383399	6819646		9.3	1.92	22.49	20.78	96.4	115	84.6	13.3	347	720.6	9.27	115.6	207
1299714	10-Sep-11	Soil	383401	6819700		32.7	1.42	25.44	20.04	58.7	666	54.4	9.1	235	320.6	5.1	53.1	239.1
1299715	10-Sep-11	Soil	383401	6819746		32.7	3.06	43.27	28.6	104.1	1329	115.7	18.9	642	771.9	13.53	92.2	321.7
1299716	10-Sep-11	Soil	383399	6819804		13	3.73	54.66	21.35	122.1	570	47.1	12.7	456	103.3	6.75	23.2	282.9
1299717	10-Sep-11	Soil	383399	6819846		16.5	12.37	70.6	49.2	106.5	740	19	5.5	216	238.1	19.8	33.4	302.2
1299718	10-Sep-11	Soil	383400	6819896		6.7	1.47	35.78	19.35	115.1	927	45.1	16.7	729	44.1	2.34	36.4	288
1299719	10-Sep-11	Soil	383399	6819951		10.1	1.6	24.41	16.46	71.2	2402	27.2	4.5	156	111.8	3.86	41.7	224.9
1299720	10-Sep-11	Soil	383400	6820048		12	2.54	41.64	11.14	85.5	178	42	9.2	260	33.1	2.31	30.1	127.8
1299721	10-Sep-11	Soil	383401	6820095		5.4	3.87	23.98	15.81	66.7	373	63.3	10.4	291	55.1	2.42	91.4	147.5
1299722	10-Sep-11	Soil	383396	6820158		6.7	2.26	35.26	12.68	82.9	135	54.4	13.7	522	32.6	1.65	59.6	196.9
1299723	10-Sep-11	Soil	383402	6820201		0.4	0.1	7.69	1.17	10.7	73	4.4	1.3	32	1.9	0.25	4.6	87.1
1299724	11-Sep-11	Soil	384503	6818699		0.4	0.85	13.65	12.28	69.1	37	177.9	17.2	366	46.3	1.24	198.5	191.1
1299725	11-Sep-11	Soil	384496	6818899		1	0.75	15.08	7.26	47.6	49	651.2	32	413	14.1	0.84	600.9	101.3
1299726	11-Sep-11	Soil	384501	6818946		1.5	0.24	13.99	7.2	44.4	93	796.9	31.5	352	6.2	0.61	694.8	114.3
1299727	11-Sep-11	Soil	384500	6819049		1.1	0.23	10.98	7.09	40.7	188	446.2	22.5	280	10.2	0.93	522.5	105.6
1299728	11-Sep-11	Soil	384499	6819149		0.8	0.41	12.75	6.92	41.7	100	408.6	17.2	258	14.6	0.99	420.9	119.5

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299729	11-Sep-11	Soil	384499	6819204		3.4	0.11	13.05	7.03	34.4	145	360.3	11.3	159	6.6	3.03	382.8	146.2
1299730	11-Sep-11	Soil	384498	6819250		9.8	0.38	37.45	9.26	58.9	673	243.3	24.5	653	83.1	5.18	241.2	120.6
1299731	11-Sep-11	Soil	384496	6819301		4.6	0.95	19.57	14.21	62.5	137	890.2	47.3	716	40.8	2.89	546.8	160.4
1299732	11-Sep-11	Soil	384498	6819404		2.4	0.57	19.8	7.34	49.9	105	1341.7	72.9	615	69.4	8.36	992	119.5
1299733	11-Sep-11	Soil	384498	6819450		2.1	0.19	11.62	2.85	28.8	46	1955	80.9	595	90.1	12.82	1397	104.3
1299734	11-Sep-11	Soil	384496	6819504		1.9	0.56	18.2	8.22	47.7	257	1072	94.1	936	90.6	27.39	1237	186.3
1299735	11-Sep-11	Soil	384497	6819549		4.7	0.98	20.02	9.59	60.5	193	1502.7	78.8	575	116.9	12.39	789.2	113.2
1299736	11-Sep-11	Soil	384500	6819599		5.7	1.1	23.4	10.34	83.3	200	1706.8	79.8	745	62.2	8.07	765.8	128.3
1299737	11-Sep-11	Soil	384502	6819696		99.7	1.14	51.09	14.07	86.7	581	110.9	28.3	752	591.9	4.7	51.2	155.1
1299738	11-Sep-11	Soil	384603	6818750		10.7	1.04	15.06	14.93	58.5	62	311.4	20.3	394	22.2	1.87	310.3	116.3
1299739	11-Sep-11	Soil	384598	6818797		15.6	0.8	13.98	7.46	42.1	69	597.9	39.4	442	17.6	2.91	476.2	126
1299740	11-Sep-11	Soil	384601	6818845		2.2	0.79	19.4	11.37	51.7	96	597.8	29.2	373	17.9	1.21	558.2	110.7
1299741	11-Sep-11	Soil	384599	6818899		2.1	0.76	16.94	10.56	58.8	83	640.6	44.7	565	18.8	0.72	836.1	147.1
1299742	11-Sep-11	Soil	384598	6818952		1.6	0.72	17.95	7.21	49.1	75	917.6	43.9	395	13.6	1	834.3	110
1299743	11-Sep-11	Soil	384601	6819000		4.8	0.32	13.8	9.95	43	109	567.1	24.9	237	6.3	0.55	552.6	107.9
1299744	11-Sep-11	Soil	384598	6819050		6.7	0.55	13.64	9.12	44.7	93	619.5	29.9	278	8.3	0.68	548.9	90.3
1299745	11-Sep-11	Soil	384597	6819101		3.6	0.83	16.66	11.16	45.9	268	673.2	35.3	398	26.4	1.58	667	101
1299746	11-Sep-11	Soil	384600	6819149		4.5	0.34	13.22	9.86	45.3	269	396.6	19.6	293	17.3	1.43	422	140.2
1299747	11-Sep-11	Soil	384598	6819199		4	0.17	14.45	6.21	29.8	423	1240.2	45.6	294	31.2	4.35	1215.1	66
1299751	9-Sep-11	Soil	383496	6819751	1575	21.2	4.98	78.44	33.93	181.6	1060	249.8	21.1	473	475.8	31.46	121.8	210.5
1299752	9-Sep-11	Soil	383502	6819695	1574	49.8	2.12	39.96	52.48	102.1	708	99.7	20.3	739	683.2	11.51	69	131.9
1299753	9-Sep-11	Soil	383495	6819599	1578	314.2	2.06	29.99	58.97	121.1	973	83.4	16.6	731	3125.4	16.58	44.6	295.6
1299754	9-Sep-11	Soil	383502	6819553	1592	48.2	3.16	36.91	23.05	122.2	488	114.5	20.1	608	826.7	11.53	58.9	414.8
1299755	9-Sep-11	Soil	383501	6819502	1594	46.5	2.68	46.06	25.13	121.3	1191	159.8	13.6	301	411.8	9.93	78.3	319.4
1299756	9-Sep-11	Soil	383501	6819447	1593	6.7	0.96	17.02	13.27	69.8	146	487	34.4	687	171.5	6.76	427.5	206.1
1299757	9-Sep-11	Soil	383500	6819401	1592	28.5	1.97	28	18.74	79.5	259	236.4	25.3	518	413.7	8.19	172.6	298.4
1299758	9-Sep-11	Soil	383498	6819352	1580	17.3	1.7	25	16.9	101.2	261	260.5	28.7	544	257.3	7.65	198.8	173
1299759	9-Sep-11	Soil	383503	6819303	1562	4.5	1.06	16.48	8.88	64.2	104	322.3	23	314	41.1	1.86	244.5	147
1299760	9-Sep-11	Soil	383504	6819251	1539	13.3	1.55	26.34	13.81	81.5	319	383.7	23.9	391	134.9	6.35	253.7	216.3
1299761	9-Sep-11	Soil	383496	6819204	1512	3.6	1.03	16.78	12.31	82.1	159	192.4	22.4	411	88.9	2.82	166.7	191.7
1299762	9-Sep-11	Soil	383497	6819149	1481	7.2	0.68	13.62	5.48	44	309	179.8	10.5	158	39	2.08	136.2	179.6
1299763	9-Sep-11	Soil	383495	6819099	1461	5	1.31	11.91	12.11	65.6	111	95.7	9.3	264	69.6	2.9	101.6	230.1
1299764	9-Sep-11	Soil	383498	6819054	1462	47.5	1.27	26.54	18.13	85.5	356	131.8	17.6	528	155.1	5.98	75.8	140.1
1299765	9-Sep-11	Soil	383496	6819002	1479	18.3	1.79	38.6	19.69	96.1	318	290.6	24.3	1154	365.1	18.01	127.4	372.1
1299766	9-Sep-11	Soil	383495	6818951	1481	6.9	1.41	31.1	26.29	150.6	90	221.9	26.5	1027	409.9	13.35	156.1	141.7
1299767	9-Sep-11	Soil	383500	6818896	1464	10.9	1.44	26.16	17.68	88.2	859	124	16.4	398	294.4	5.96	97.5	283.1
1299768	9-Sep-11	Soil	383498	6818853	1464	13.9	0.67	10.16	10.27	44	348	35.3	6.6	161	345.8	3.92	29.5	140.4
1299769	9-Sep-11	Soil	383500	6818805	1463	10.7	0.74	10.08	12.05	47.7	183	22.2	6.8	209	124.8	1.18	28.4	136.9
1299770	10-Sep-11	Soil	383602	6818798	1507	34	1.24	32.54	18.7	99.5	1538	703.7	33.2	614	531.5	39.97	210.9	180.9
1299771	10-Sep-11	Soil	383597	6818846	1507	21	1.07	23.54	15.88	76.3	840	517	27.3	479	326.3	33.75	139.3	145.4
1299772	10-Sep-11	Soil	383597	6818903	1517	30.5	1.01	25.58	14.73	71.1	655	482.5	26.6	493	359.6	29.01	91.4	158.3

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299773	10-Sep-11	Soil	383601	6818945	1527	81.4	0.97	74.72	15.52	75.1	656	59.3	25.6	736	2219.5	5.1	37.2	102.9
1299774	10-Sep-11	Soil	383596	6818996	1499	22	1.1	31.73	15.63	89.2	758	479.2	28.7	619	349.9	34.44	105.3	183.2
1299775	10-Sep-11	Soil	383599	6819050	1485	4	0.9	12.08	10.6	63.5	183	160.7	14.6	344	150.9	10.92	71.7	103.5
1299776	10-Sep-11	Soil	383602	6819099	1478	33	0.82	22.88	9.76	64	411	531.4	32.3	665	199.4	7.51	296.6	121.2
1299777	10-Sep-11	Soil	383604	6819150	1497	8.1	1.08	18.64	11.73	68.8	247	350.2	25.3	389	131.2	6.06	266.5	169.1
1299778	10-Sep-11	Soil	383602	6819195	1525	26.5	1.09	22.59	10.88	62.9	420	627.1	43	631	282	12.07	485.9	158.7
1299779	10-Sep-11	Soil	383604	6819250	1551	41.6	1.19	29.9	11.89	74.9	538	643.7	34.6	531	309.9	11.03	371.1	184.3
1299780	10-Sep-11	Soil	383598	6819299	1570	39.5	1.04	28.94	12.08	69.4	536	922.9	49.1	722	286.8	10.68	529.2	236.9
1299781	10-Sep-11	Soil	383602	6819352	1583	7.1	1.03	15.65	10.96	59.4	148	540.6	32.3	452	149.6	5.6	469.3	150.3
1299782	10-Sep-11	Soil	383598	6819402	1596	4.8	1.06	14.76	10.64	60.6	109	409.7	35.4	502	188.6	5.4	442.3	175.9
1299783	10-Sep-11	Soil	383601	6819455	1597	19.8	1.93	26.15	14.76	70.7	455	226.7	20.1	342	216.2	6.65	221.5	206
1299784	10-Sep-11	Soil	383598	6819501	1596	55.7	1.09	28.75	18.03	69.4	683	507.7	23	351	493.7	6.95	464.1	172.4
1299785	10-Sep-11	Soil	383596	6819550	1598	8.1	0.75	18.18	11.5	48.8	159	1034.6	83.9	1393	217.3	7.49	1151.5	174.8
1299786	10-Sep-11	Soil	383601	6819600	1590	50.4	0.95	22.66	16.27	86.1	467	271.2	15.1	276	392.5	6.28	306.8	261
1299787	10-Sep-11	Soil	383599	6819653	1583	52.8	1.5	28.82	14.73	104.1	1082	142.6	21.3	640	342	6.14	112.7	279.1
1299788	10-Sep-11	Soil	383603	6819700	1582	12	1.06	17.09	13.51	87.4	576	53.4	12.7	404	205.7	4.2	57.9	288.8
1299789	10-Sep-11	Soil	383599	6819745	1580	37.4	2	21.74	20.8	66.6	285	121.9	20	644	1734.4	15.57	126.7	253.6
1299790	10-Sep-11	Soil	383597	6819800	1582	13.7	1.25	12.19	9.82	43.3	579	22.9	6.7	295	98	2.36	29.7	201.9
1299791	10-Sep-11	Soil	383597	6819948	1574	14.3	4.65	35.92	21.06	92.9	1056	44	7.4	92	122.3	5.6	76	569.5
1299792	10-Sep-11	Soil	383599	6819997	1570	45.2	1.33	42.78	10.89	99.8	424	85.6	21.4	672	140	2.18	117	347.2
1299793	10-Sep-11	Soil	383603	6820052	1568	4.9	2.48	25.56	12.33	132.3	365	108.3	21.8	466	76.4	1.45	201.9	219
1299794	10-Sep-11	Soil	383595	6820102	1564	5.5	2.09	25.63	19.16	71.7	138	47.7	12	478	137.2	3.34	77.7	348.9
1299795	10-Sep-11	Soil	383599	6820148	1560	2.5	1.33	13.56	15.15	80.4	230	27.8	7.1	299	87.8	1.15	49.9	486.7
1299796	10-Sep-11	Soil	383599	6820197	1553	3.8	1.41	28.84	12.53	110.6	344	64.1	10.8	364	54	1.64	97.3	472.6
1299797	10-Sep-11	Soil	383697	6820099	1574	2.9	1.28	14.99	8.24	39.6	130	23	4.6	322	47.7	1.23	28.2	200.2
1299798	10-Sep-11	Soil	383697	6820052	1581	10.2	1.79	59.42	19.92	187.4	449	64.5	10.9	374	77.5	2.05	49	350.2
1299799	10-Sep-11	Soil	383696	6820003	1587	9	3.03	55.45	14.01	98.8	502	39.4	7.6	314	78.6	1.72	47.5	656.6
1299800	10-Sep-11	Soil	383697	6819952	1590	24.1	3.17	23.76	15.1	68.1	126	31.8	7	312	108.1	3.01	41.7	284.5
1299801	10-Sep-11	Soil	383700	6819901	1590	5.7	1.31	30.37	11.23	80.1	213	55.5	14.9	549	30.6	1.27	63.5	187.4
1299802	10-Sep-11	Soil	383699	6819851	1592	5	2.04	75.94	16.52	151	212	79.8	27.6	916	43	2.03	61	191.5
1299803	10-Sep-11	Soil	383697	6819804	1596	12.7	2.62	45.33	15.1	108.8	265	37	12.7	467	76.4	5.06	32	177.2
1299804	10-Sep-11	Soil	383699	6819746	1600	4.5	1.53	32.44	10.95	85.2	212	56.2	12.7	651	38.6	2.23	52.3	224.2
1299805	10-Sep-11	Soil	383698	6819703	1600	13.8	1.22	27.45	12.6	79.3	263	77.4	12.8	411	104.1	2.92	72.7	173.5
1299806	10-Sep-11	Soil	383699	6819603	1608	108.2	2.43	31.14	43.42	50	761	19.8	17	780	1242.6	13.14	5	325.1
1299807	10-Sep-11	Soil	383697	6819549	1614	25.6	1.17	23.83	9.4	70.6	380	1749.9	97.4	1074	157.7	3.9	974.4	216.1
1299808	10-Sep-11	Soil	383700	6819499	1607	15	1.07	25.86	14.74	59.7	330	822.6	54.4	842	242.5	4.5	945.6	142.3
1299809	10-Sep-11	Soil	383699	6819448	1604	4.7	1.07	13.67	10.88	68.6	130	313.1	34.4	594	217.7	2.76	566.1	149.2
1299810	11-Sep-11	Soil	383902	6818597	1549	4.7	1.09	15.16	20.82	101.5	418	45.8	10.6	749	120.8	0.79	34	378.2
1299811	11-Sep-11	Soil	383897	6818646	1548	1.9	0.7	4.97	9.66	27.1	175	9.7	3.7	92	22.8	0.19	16.7	84.4
1299812	11-Sep-11	Soil	383896	6818697	1555	24.2	3.39	88.74	47.84	105	1895	46.5	14.6	413	123.8	7.98	22.6	103.3
1299813	11-Sep-11	Soil	383900	6818750	1553	6.6	1.01	17.99	17.24	56	147	39.7	11.7	410	59.6	0.74	33	127.2

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299814	11-Sep-11	Soil	383898	6818798	1551	4.5	1.23	15.45	15.76	65.6	268	25.1	10.6	416	50.8	0.61	30.4	78.7
1299815	11-Sep-11	Soil	383898	6818854	1548	4.7	1.4	14.03	20.97	43.3	841	15.2	5.8	201	39.7	0.99	24.2	59.1
1299816	11-Sep-11	Soil	383896	6818902	1525	8	1.32	21.79	21.43	83.5	552	374.2	40.6	722	128.2	2.89	357.8	117.2
1299817	11-Sep-11	Soil	383901	6818956	1527	0.2	0.28	5.53	3.11	17.9	105	129.4	8	105	10.7	0.57	140.5	72.6
1299818	11-Sep-11	Soil	383904	6818997	1530	2.2	0.56	16.99	6.86	50.7	129	695.4	30	287	33.5	1.93	509	137.9
1299819	11-Sep-11	Soil	383898	6819048	1542	3.7	1.13	25.98	10.49	72.9	201	529.4	32.4	501	49	2.42	297.5	228.7
1299820	11-Sep-11	Soil	383901	6819097	1564	8.3	0.98	19.08	9.47	58.6	122	294.7	24.7	380	41.2	1.96	228.4	153.5
1299821	11-Sep-11	Soil	383903	6819149	1576	3.9	0.87	19.31	8.13	57	143	383.9	27.2	393	38.2	1.86	291.7	118.3
1299822	11-Sep-11	Soil	383898	6819198	1578	4.5	0.89	23.99	11.11	71.2	266	659.2	30.1	382	68.5	5.7	474	162
1299823	11-Sep-11	Soil	383901	6819248	1591	5.3	0.31	21.11	8.08	55.8	181	662.2	32.4	311	34.1	3.18	531.6	143.3
1299824	11-Sep-11	Soil	383895	6819300	1603	13.1	1.16	28.03	14	94	449	491.6	31.4	365	131.5	6.38	398.5	140.8
1299825	11-Sep-11	Soil	383903	6819349	1618	25.3	1.14	25.63	10.88	68.9	555	561.6	29.5	465	359	21.54	232.7	118.6
1299826	11-Sep-11	Soil	383899	6819398	1626	95.3	1.73	52.59	18.73	87.4	903	877	42.9	768	1164.7	40.79	305.3	181.5
1299827	11-Sep-11	Soil	383897	6819451	1625	24.8	3.41	54.06	20.71	116.2	595	120.9	22.9	623	262.4	5.68	66.3	158.4
1299828	11-Sep-11	Soil	383900	6819501	1630	14.2	1.98	38.3	28.62	94.7	219	139	24.7	697	251.3	6.89	96.7	178.6
1299829	11-Sep-11	Soil	383900	6819549	1625	54.3	2.06	73.49	25.46	126.4	879	135.4	29	1073	742.1	11.93	63.2	234
1299830	11-Sep-11	Soil	383896	6819600	1621	44.5	2.3	37.73	25.76	114.3	701	100.2	20.4	630	545.5	7.77	57	124.9
1299831	11-Sep-11	Soil	383898	6819653	1618	1115.8	1.3	75.57	11.63	107.9	694	433.8	59.2	512	465.7	25.47	126	133.1
1299832	11-Sep-11	Soil	383902	6819701	1619	863.3	1.15	114.2	21.53	151.4	4611	185.2	57.3	2260	4629.6	19.59	25.7	235.7
1299833	11-Sep-11	Soil	383898	6819751	1619	42.1	2.72	118.58	25.82	239.5	1926	171.2	30.8	1140	279.7	8.09	70.9	232.7
1299834	11-Sep-11	Soil	383900	6819803	1614	8.7	3.59	30.38	16.84	199.2	165	29.5	12.2	398	80.1	3.19	8.6	114.1
1299835	11-Sep-11	Soil	383898	6819849	1609	7.5	2.42	63.73	15.24	164.6	319	134.4	31.6	848	83.8	1.59	163.2	203.3
1299836	11-Sep-11	Soil	383901	6819901	1605	3	1.13	34.67	14.84	88.6	61	84.8	16.4	253	22	0.9	107.7	223
1299837	11-Sep-11	Soil	384402	6818595	1635	4.1	3.93	63.31	32.09	119.6	239	401.5	30.6	598	193.1	1.67	229.9	102.4
1299838	11-Sep-11	Soil	384398	6818651	1634	4.4	1.09	26.33	13.46	80.9	133	387.2	23.7	372	112.7	2	266.7	108.5
1299839	11-Sep-11	Soil	384397	6818700	1633	2.4	0.99	12.83	8.49	38.5	483	92.6	11.4	425	24.6	0.68	91.6	86.1
1299840	11-Sep-11	Soil	384398	6818751	1629	2.5	1.09	18	12.84	65.8	61	109.5	12.8	364	43.4	1.14	83.5	148.5
1299841	11-Sep-11	Soil	384403	6818800	1612	38.5	1.27	37.5	19.94	101.4	970	502.8	37.5	746	353.7	5.82	306.8	108.5
1299842	11-Sep-11	Soil	384400	6818844	1625	4.9	0.1	17.11	3.36	15.3	106	2971.5	215	1908	31.5	0.64	1141.2	71.4
1299843	11-Sep-11	Soil	384396	6818898	1637	2.2	0.73	14.48	7.78	47.1	71	440	23.8	371	20.6	0.82	386.6	91.5
1299844	11-Sep-11	Soil	384398	6818947	1659	2.9	0.29	14.1	4.07	29.9	88	1368.7	54.5	415	5.5	0.33	1056.1	50.9
1299845	11-Sep-11	Soil	384401	6818999	1681	3.5	0.81	15.6	5.48	42.3	107	728.1	27.4	259	10.3	0.61	601.3	75.4
1299846	11-Sep-11	Soil	384396	6819048	1689	5.9	0.45	17.48	4.53	27.3	82	1550	70.4	696	9.5	0.37	1205.9	63.2
1299847	11-Sep-11	Soil	384399	6819101	1700	3.3	0.07	7.75	7.09	31.8	54	292.4	14.1	122	3.2	0.58	401.1	104.5
1299848	11-Sep-11	Soil	384398	6819155	1699	1.4	0.17	8.02	6.6	37.2	56	355	19.2	195	9	0.69	435.3	87.6
1299849	11-Sep-11	Soil	384400	6819198	1703	5.7	0.12	10.67	5.66	43.1	200	557.7	24	216	23.2	2.66	465.9	113
1299850	11-Sep-11	Soil	384399	6819252	1704	2.9	0.48	22.1	6.96	47.9	146	1280.2	84.3	1356	55.1	2.25	604.8	248.4
1299851	8-Sep-11	Soil	382901	6819901	1474	10.3	2.64	52.15	28.92	129.2	652	62.7	17.7	604	72.7	6.4	42.2	291.1
1299852	8-Sep-11	Soil	382901	6819854	1480	6.6	0.61	11.37	6.38	33.6	1034	15.1	3.7	142	24.3	1.07	14.6	137.3
1299853	8-Sep-11	Soil	382900	6819798	1487	20	1.31	30	15.92	144	1772	49	8.1	435	198	4.57	48.4	366.9
1299854	8-Sep-11	Soil	382901	6819747	1489	1.7	1.51	12.25	11.81	72	98	22.4	5.9	156	27.9	1.26	34	157.5

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299855	8-Sep-11	Soil	382900	6819695	1490	8	1.81	30.21	17.39	111	190	41.4	12.8	459	25.5	1.91	32.2	232.8
1299856	8-Sep-11	Soil	382899	6819648	1494	10.7	1.51	23.39	10.89	77.8	251	28.1	8.8	267	52.8	2.54	20.2	267.1
1299857	8-Sep-11	Soil	382899	6819597	1495	7.4	1.65	26.05	13.01	101.1	375	34.9	10.1	333	73.4	2.43	28.1	271.7
1299858	8-Sep-11	Soil	382901	6819548	1490	59.4	3.95	47.24	28.66	199.6	3387	74.6	14.7	581	738.9	21.01	45.8	606.1
1299859	8-Sep-11	Soil	382900	6819498	1485	9.7	2.34	21.56	16.63	97.1	177	50.6	9.3	290	135.6	7.97	29.5	273
1299860	8-Sep-11	Soil	382896	6819449	1481	117.8	1.14	28.01	12.57	74.1	322	407.1	27.4	520	683.9	37.72	85.6	176.9
1299861	8-Sep-11	Soil	382898	6819399	1480	10.3	0.17	2.1	1.51	8.9	364	21.2	2.3	61	38.9	2.3	8.1	34.9
1299862	8-Sep-11	Soil	382899	6819348	1487	2265.9	0.69	78.98	14.68	108.2	2129	2017.9	116.4	2004	6342.3	211.98	262.4	251.3
1299863	8-Sep-11	Soil	382897	6819304	1499	412.3	1.1	35.83	66.53	99.7	840	2925.9	140.9	1626	2606.8	220.71	372.3	179.4
1299864	8-Sep-11	Soil	382898	6819249	1511	497.6	1.23	25.98	28.76	75.2	769	2836.2	153.5	2394	2838.3	209.07	359.2	293.2
1299865	8-Sep-11	Soil	382903	6819204	1495	241.7	1.31	24.87	33.86	83.2	750	1308.3	70.3	1010	1094.4	60.92	216.3	166.1
1299866	8-Sep-11	Soil	382906	6819149	1473	677	1.38	99.78	9.2	74.9	1010	499.3	61.4	1060	2184.5	53.59	81.4	554.6
1299867	8-Sep-11	Soil	382902	6819101	1447	32.4	0.4	57.91	10.45	64.9	496	165.3	27.2	522	497.7	29.38	59.7	188.1
1299868	8-Sep-11	Soil	382899	6819044	1418	27.2	0.29	29.15	4.41	43.4	269	98.3	14.2	543	479	14.39	56.7	150.1
1299869	8-Sep-11	Soil	382904	6819001	1406	37.2	0.57	39.15	11.89	51.4	389	144.7	18.4	536	593.8	15.31	118.1	198.8
1299870	8-Sep-11	Soil	382797	6819050	1396	15.9	1.15	20.12	19.55	96.7	148	41.9	9.7	259	176.5	3.29	34.3	105.8
1299871	8-Sep-11	Soil	382800	6819106	1411	16.6	0.13	2.66	1.03	5.2	28	16.6	0.8	12	15.5	0.71	2.5	25.6
1299872	8-Sep-11	Soil	382794	6819150	1417	249.6	0.87	98.77	985.39	118	12856	489.6	31.2	571	1330.1	273.04	54.1	342.2
1299873	8-Sep-11	Soil	382796	6819205	1439	29.8	0.77	18.71	14.03	58.9	366	692.7	54.8	896	630.4	58.33	114.2	252.6
1299874	8-Sep-11	Soil	382798	6819250	1448	3.3	0.04	2.22	0.85	4.2	22	7.6	0.7	12	5.7	0.77	1.6	11.7
1299875	8-Sep-11	Soil	382799	6819301	1455	413.3	1.02	88.84	30.5	366.8	1520	930.4	50.3	600	1949.5	96.36	189	208.9
1299876	8-Sep-11	Soil	382799	6819351	1453	9.9	0.15	4.84	3.01	12.1	237	14.1	2.4	115	60.2	1.84	4.6	64.4
1299877	8-Sep-11	Soil	382798	6819396	1460	14.6	0.73	38.84	6.61	39.5	946	64	5.9	359	128.5	107.85	24.9	676.3
1299878	8-Sep-11	Soil	382797	6819452	1467	6	0.2	2.18	1.77	13.1	582	6.7	0.9	42	9.9	0.55	4.5	74.7
1299879	8-Sep-11	Soil	382800	6819503	1474	7.3	1.83	24.6	13.43	122.4	372	34.1	10	393	30	2.27	29.7	391.7
1299880	8-Sep-11	Soil	382799	6819551	1478	21.1	1.48	30.39	8.71	44.7	972	35.9	7.1	569	72.7	4.18	20.3	732.5
1299881	8-Sep-11	Soil	382803	6819602	1484	29.9	1.58	27.49	13.88	99.3	344	50.7	9.7	372	52.1	2.89	42.7	419.4
1299882	8-Sep-11	Soil	382797	6819652	1485	4.4	1.11	8.13	9.68	44	91	19.5	3.2	118	39	1.76	18.5	281.2
1299883	8-Sep-11	Soil	382803	6819699	1480	6.1	1.6	22.08	10.58	111.7	180	41.5	12.9	590	23	1.33	66.2	286.3
1299884	8-Sep-11	Soil	382800	6819751	1476	20.6	0.91	29	10.06	42.9	1175	39.6	6	255	110.5	2.9	35.3	378.6
1299885	8-Sep-11	Soil	382799	6819800	1477	9.9	2.29	22.77	17.58	94.9	300	48	12	495	214.5	5.98	53	163.8
1299886	8-Sep-11	Soil	382804	6819853	1472	16.5	1.76	61.69	19.81	86	739	51.6	12.9	459	104.4	2.75	41.2	550.6
1299887	9-Sep-11	Soil	383298	6818904	1438	28	1.58	48.12	16.92	105.1	597	70.6	18.8	766	269.4	4.16	51.9	106.4
1299888	9-Sep-11	Soil	383303	6818954	1426	15.1	1.01	21.16	10.85	57.8	421	34.8	10.1	402	106.1	1.21	39.3	128
1299889	9-Sep-11	Soil	383300	6819005	1424	15	1.16	23.26	13.11	70.7	373	437.3	30.6	639	140.4	4	314.4	144.4
1299890	9-Sep-11	Soil	383299	6819047	1440	8.7	1.2	16.37	14.19	73.1	217	190.5	18.9	480	147.6	9.55	88.7	162.1
1299891	9-Sep-11	Soil	383306	6819109	1479	37.6	1.44	28.64	28.65	136.2	397	3142.6	397.1	4692	1561.2	213.25	322.3	270.8
1299892	9-Sep-11	Soil	383307	6819150	1488	3.9	3.19	19.32	11.67	121.5	124	64.9	10.2	373	129.2	4.16	58.9	162
1299893	9-Sep-11	Soil	383298	6819206	1510	5.9	3.47	25.79	13.99	123.7	182	59.9	10.7	357	45.8	3.06	40.4	261.3
1299894	9-Sep-11	Soil	383297	6819252	1533	13.5	6.85	43.37	15.48	114.7	171	123.4	13.8	422	114	6.89	73.4	261.5
1299895	9-Sep-11	Soil	383299	6819302	1546	11.5	7.1	69.19	15.53	133.8	253	114.7	14.3	546	95.6	4.98	69.6	249.8

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299896	9-Sep-11	Soil	383299	6819349	1558	10.1	2.69	35.98	12.31	94.3	157	104.4	14.6	369	68.8	2.8	71	278
1299897	9-Sep-11	Soil	383301	6819400	1556	10.2	2.17	25.15	31.98	111.2	272	152.6	17.5	549	201.1	7.17	118.9	342.6
1299898	9-Sep-11	Soil	383300	6819454	1554	19.8	1.09	29.58	7.8	73.1	625	400.8	14.2	748	97.3	6.91	70.2	541.4
1299899	9-Sep-11	Soil	383298	6819501	1555	122.4	2.22	34.98	25.31	95.5	954	335	24.8	709	1253.9	44.3	71.6	185.7
1299900	9-Sep-11	Soil	383300	6819552	1550	34.8	2.05	36.54	26.6	114.4	982	239.9	22.9	926	483.6	21.26	95.7	413.5
1299901	8-Sep-11	Soil	382999	6819899	1497	12.9	2.33	35.87	23.26	126.1	502	52.5	13.4	452	150.2	5.1	43.4	383.6
1299902	8-Sep-11	Soil	382998	6819846	1497	4.9	2.94	46.82	19.7	168.8	524	50.8	11.4	472	24.5	2.51	35.6	556.6
1299903	8-Sep-11	Soil	382997	6819799	1505	20.9	1.74	21.21	29.55	121.9	1235	37.5	7.4	272	265.3	9.34	29.6	302.2
1299904	8-Sep-11	Soil	382997	6819750	1509	15.9	1.16	13.74	19.4	69.1	1458	23.2	5.1	202	255.5	4.78	23.6	300.7
1299905	8-Sep-11	Soil	383002	6819698	1511	26.7	1.93	21.06	40.03	127	1277	34.3	8.1	271	225.5	7.12	26.7	171
1299906	8-Sep-11	Soil	382998	6819651	1517	0.6	0.09	3.5	1.16	5.1	60	1.6	0.9	24	2.7	0.17	1.8	20.4
1299907	8-Sep-11	Soil	383004	6819599	1519	20.3	1.51	27.66	22.44	101.4	787	54.9	11.5	398	244.7	6.5	36.5	256.7
1299908	8-Sep-11	Soil	382999	6819552	1517	59.1	2.15	33.23	20.1	112.1	1521	58.4	12.6	429	642.7	10.98	38	237.3
1299909	8-Sep-11	Soil	383000	6819502	1518	22.4	2.5	24.54	25.68	80.3	324	40.8	9.6	393	1136.6	16.89	38.5	120.8
1299910	8-Sep-11	Soil	383000	6819452	1530	7.6	1.73	12.79	14.19	72.1	128	91.9	13.1	390	197.4	8.97	43.6	282.5
1299911	8-Sep-11	Soil	382996	6819400	1519	2.1	1.45	7.33	3.78	15.7	134	15.5	8.8	1275	14.1	0.94	7.4	156.4
1299912	8-Sep-11	Soil	382995	6819351	1521	759.8	1.6	24.43	22.33	107.7	628	966.7	43.2	524	1122.2	81.84	251.1	156
1299913	8-Sep-11	Soil	382998	6819301	1532	20.2	1.51	19.57	14.61	81.5	276	1594.9	50.3	754	750.1	240.4	627.8	241.3
1299914	8-Sep-11	Soil	383002	6819251	1540	7.2	1.43	9.5	15.76	45.3	56	199.8	12.1	186	164.4	41.03	100.5	239.1
1299918	8-Sep-11	Soil	382999	6819050	1455	121.8	1.42	26.03	22.26	93.7	425	1524.3	93	1148	965.9	98.35	191.8	206
1299919	8-Sep-11	Soil	383102	6819049	1448	12	1.32	17.57	16.3	73.7	127	437.2	44.4	540	479.3	47.79	149.9	190.7
1299920	8-Sep-11	Soil	383096	6819100	1491	24.8	1.41	19.81	18.19	79.3	349	677	53.7	1131	528.6	62.59	134.8	259.8
1299921	8-Sep-11	Soil	383098	6819147	1523	13.5	1.57	17.74	23.38	80.4	253	129.2	14.2	429	164.8	29.61	57.5	289.3
1299922	8-Sep-11	Soil	383099	6819201	1535	5.4	3.08	18.09	19.26	54.2	196	35.9	9.7	264	295.6	2.84	23.8	82.3
1299923	8-Sep-11	Soil	383100	6819252	1538	2.4	4.36	15.6	18.55	56.5	297	39.3	7.3	290	85.4	5.94	25.8	277.8
1299924	8-Sep-11	Soil	383099	6819298	1540	10.8	2.83	40.65	20.36	117.6	289	93	19.9	473	97.2	10.94	46.1	175.9
1299925	8-Sep-11	Soil	383100	6819348	1538	4.2	2.52	13.54	14.89	41.1	162	30.8	5.8	201	53	2.16	27.1	151.4
1299926	8-Sep-11	Soil	383096	6819398	1537	1.4	1.06	7	2.12	16.8	186	8.5	1.8	103	7.7	0.57	6.2	75.1
1299927	8-Sep-11	Soil	383098	6819450	1538	3.6	3.66	20.3	16.68	60.8	260	42.1	6.2	205	55.1	1.91	35	566.7
1299928	8-Sep-11	Soil	383099	6819498	1537	7.7	1.66	18.47	15.04	86.2	154	39.1	11.4	463	126.1	4.21	21.5	215.4
1299929	8-Sep-11	Soil	383102	6819549	1535	18.6	1.72	25.31	18.74	67.3	706	46	8.6	295	192.9	4.76	33.5	675.7
1299930	8-Sep-11	Soil	383100	6819600	1531	17.2	1.6	22.42	13.23	67.1	642	47.8	7.7	265	252.2	4.5	29.6	230.2
1299931	8-Sep-11	Soil	383097	6819655	1526	17.7	0.78	15.15	15.18	42.6	605	36.9	7.1	199	242.3	4.23	22.4	203.9
1299932	8-Sep-11	Soil	383096	6819701	1524	43.6	2.48	30.08	24.9	105.7	1440	58.7	14.2	533	313.8	6.63	42.4	340.3
1299933	8-Sep-11	Soil	383098	6819752	1520	24.1	1.68	17.52	23.4	88.8	1665	41.4	14	500	149.1	4.51	38.2	283.5
1299934	8-Sep-11	Soil	383099	6819800	1513	29.5	2.86	34.28	34	105.9	1461	54.5	15.6	576	324.4	9.31	36.9	258.5
1299935	8-Sep-11	Soil	383099	6819854	1511	70.5	3.18	73.98	33.72	223.3	2645	176.6	25.1	1921	501	9.11	66	376.9
1299936	8-Sep-11	Soil	383100	6819902	1512	10.6	2.28	28.83	26.66	102.6	777	55.8	14.2	570	254.3	6.85	56.7	245.7
1299937	8-Sep-11	Soil	383098	6819951	1509	12.9	1.79	38.39	19.43	67.1	559	64	16	392	82.7	5.28	35.2	267.9
1299938	8-Sep-11	Soil	383101	6820003	1509	9.2	5.03	120.56	21.65	150.4	1267	64	24.6	987	144.5	6.68	11.6	136.1
1299939	8-Sep-11	Soil	383099	6820048	1497	12	1.14	20.41	9.39	58.6	2318	19	2.1	69	33.8	3.22	9	95.2

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299940	8-Sep-11	Soil	383097	6820100	1488	23.2	5.77	99.54	29.76	244.6	1302	55.9	13.9	532	121.7	11.41	36.5	371
1299941	8-Sep-11	Soil	383098	6820149	1480	3.7	2.61	35.09	14.23	86.9	577	52.5	15	505	40	2.04	51.5	223
1299942	8-Sep-11	Soil	383095	6820199	1493	2.4	1.03	32.51	9.01	75.5	225	86.8	20.2	543	13.3	1.13	122.5	356.8
1299943	9-Sep-11	Soil	383496	6820201	1545	9.2	2.6	28.1	17.29	102.1	547	49.5	12.7	434	69.4	2.24	63.8	297.5
1299944	9-Sep-11	Soil	383496	6820152	1552	3	0.92	24.54	17.32	66.2	272	32.9	10.1	408	30.4	1.12	23	369.6
1299945	9-Sep-11	Soil	383498	6820098	1560	10.4	16.38	173.36	36.78	166.1	804	40.4	9.3	239	120.5	11.64	19	205.6
1299946	9-Sep-11	Soil	383498	6820051	1560	730	1.93	53.54	16.52	167.8	1369	85.5	34.1	763	2287.4	12.63	18.3	127.2
1299947	9-Sep-11	Soil	383499	6819996	1561	6.6	1.99	20.36	14.54	70.1	474	38.4	10.1	330	46.9	1.76	50.5	450.9
1299948	9-Sep-11	Soil	383501	6819896	1569	8.3	1.16	27.7	17.17	101.5	749	52.6	10.5	378	36.8	2.19	57.1	498.7
1299949	9-Sep-11	Soil	383498	6819851	1570	12.5	2.74	27.63	15.63	62.3	1101	41.2	13.5	394	60.7	6.77	46.1	181.6
1299950	9-Sep-11	Soil	383501	6819799	1577	18.6	1.72	35.4	16.44	86.7	1054	75.4	15.4	443	111	4.5	80.6	285.9
1299951	8-Sep-11	Soil	382399	6819851	1363	9.1	1.47	27.2	16.15	107.7	334	45.5	9.3	302	31.4	2.13	39.4	314.6
1299952	8-Sep-11	Soil	382400	6819805	1370	8.9	1.56	47.36	14.33	141.6	435	58.7	11.7	429	39.1	2.25	53.2	427
1299953	8-Sep-11	Soil	382399	6819706	1386	2.9	0.33	62.39	8.15	98.7	107	199.3	34.8	752	7.6	0.51	312.3	148.1
1299954	8-Sep-11	Soil	382400	6819656	1391	3.2	1.61	17.36	15.85	88.9	39	32.8	9	336	24	1.64	41.4	288.9
1299955	8-Sep-11	Soil	382402	6819602	1388	7.2	1.22	68.94	14.65	108.5	301	116.9	25.4	1213	29.7	2.25	173.1	316.5
1299956	8-Sep-11	Soil	382402	6819553	1376	6.1	1.17	25.22	8.37	82.5	281	32.7	7.8	295	11.4	1.34	37.7	428.6
1299957	8-Sep-11	Soil	382399	6819505	1366	4.1	1.66	26.07	13.95	114.5	160	36.6	13	577	15.7	1.51	44.7	293.7
1299958	8-Sep-11	Soil	382400	6819449	1355	3.6	1.55	15.62	11.88	106.4	220	29.2	9.6	473	33.8	1.4	44	268.7
1299959	8-Sep-11	Soil	382402	6819397	1350	8.7	1.83	31.42	14.34	81.8	613	40.8	12.4	422	96.6	2.1	44.3	146.7
1299960	8-Sep-11	Soil	382399	6819357	1364	4.1	1.2	35.78	9.92	66.7	335	45.3	15.1	684	53.1	2	43.7	114.4
1299961	8-Sep-11	Soil	382396	6819304	1386	8.3	2.56	48.91	17.51	77.3	806	42.1	15.3	500	131.6	2.65	35.5	93.1
1299962	8-Sep-11	Soil	382401	6819252	1402	4.9	1.92	51.74	15.03	73.4	460	39.9	17.3	492	83.4	3.37	18.5	88.7
1299963	8-Sep-11	Soil	382401	6819203	1416	4.1	2	51.71	24.47	74.2	517	39.5	23.3	1358	109	2.27	29.2	56.8
1299964	8-Sep-11	Soil	382399	6819154	1433	9.8	1.55	16.64	12.97	26.6	1397	13.7	3.8	104	70.3	1.33	25.4	89.5
1299965	8-Sep-11	Soil	382399	6819104	1446	13.6	2.07	42.81	17.4	65.6	1029	39.6	25.9	1601	164	2.89	38.7	68.1
1299967	8-Sep-11	Silt	382405	6819005	1464	28	1.65	26.31	15.77	71.3	511	35.4	10	263	154.7	3.18	42.8	45.7
1299968	8-Sep-11	Silt	382585	6818998	1416	7.2	9.36	165.3	18.28	112	651	42	16.2	604	180	5.15	26.1	102.4
1299970	8-Sep-11	Soil	382602	6819099	1397	19.9	4.79	111.8	19.88	158.4	795	54.5	16	505	149	5.09	48.6	196.3
1299971	8-Sep-11	Soil	382599	6819146	1381	6	1.87	59.53	11.33	67.4	1042	51.7	14.6	803	93.5	3.12	33.1	192.8
1299972	8-Sep-11	Soil	382597	6819206	1367	12.7	6.48	127.99	19.79	128.1	912	75.1	18.5	771	216.5	8.79	43.4	141.1
1299973	8-Sep-11	Soil	382594	6819245	1364	16.5	1.23	22.94	13.69	121.3	570	55.8	8.9	333	158.2	25.91	32.4	290
1299974	8-Sep-11	Soil	382599	6819296	1367	10.6	1.37	22.23	15.9	132.6	402	36.1	11.7	513	56.8	2.85	36.4	429.6
1299975	8-Sep-11	Soil	382601	6819395	1403	13.2	1.63	71.09	14.33	106.7	381	127.6	26	561	61.6	6.41	157.6	349.8
1299976	8-Sep-11	Soil	382600	6819499	1422	7.3	1.24	18.85	13.19	91.1	356	32.4	9.8	418	32	2.5	28.6	423.7
1299977	8-Sep-11	Soil	382592	6819547	1428	7.2	1.11	25.78	10.73	51.7	402	35.4	8.8	488	40.6	1.94	26.1	421.6
1299979	8-Sep-11	Soil	382600	6819646	1441	7	1.65	21.78	13.1	86.1	304	49.6	12.2	361	50	2.34	67.5	283.5
1299980	8-Sep-11	Soil	382600	6819700	1434	7.8	1.66	21.79	16.66	93.8	165	52.6	11.5	366	75.4	3.49	52.6	203.5
1299981	8-Sep-11	Soil	382602	6819749	1425	4.7	1.48	42.03	41.56	101	190	65	17.7	677	50.1	1.77	101.6	309.2
1299982	8-Sep-11	Soil	382600	6819846	1418	2.9	1.48	30.47	11.43	93.1	334	52.3	13.8	468	14.1	1.51	77.4	419.9
1299983	9-Sep-11	Soil	383204	6820204	1501	2.5	1.29	22.67	9.98	54.8	434	32.5	8	247	31.2	0.87	39.1	168.6

Sample Number	Date	Type	UTM E NAD83	UTM N NAD83	Meters asl	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299984	9-Sep-11	Soil	383202	6820152	1503	2.6	1.48	26.31	24.48	128.3	95	34.8	17.6	592	127.8	1.61	11.8	47.5
1299985	9-Sep-11	Soil	383202	6820103	1503	5.4	2.15	29.28	14.93	113	276	38.5	11	488	35.7	1.78	48	332.9
1299986	9-Sep-11	Soil	383202	6820055	1506	4.8	3.19	14.73	22.2	94.6	473	23.6	7.6	431	51.8	2.13	48.5	105.6
1299987	9-Sep-11	Soil	383198	6819954	1517	21.8	1.52	63.22	39.36	112.9	2506	41.3	16.9	734	245.3	7.92	12.7	145.5
1299988	9-Sep-11	Soil	383202	6819904	1528	47.9	2.58	44.32	140.23	100.8	2284	71.1	17	700	342.4	13.57	54.5	211.7
1299989	9-Sep-11	Soil	383200	6819858	1525	57.9	3.64	66.71	100.23	147.6	2922	111.4	23.1	928	579.8	15.21	71.7	292.3
1299990	9-Sep-11	Soil	383202	6819801	1520	17.3	1.7	20.94	24.59	120.3	506	99	17.4	459	439	7.28	70	351.2
1299991	9-Sep-11	Soil	383199	6819756	1526	56.8	2.13	40.94	38.07	184.3	2568	84.6	13.3	377	679.2	11.15	57.6	240
1299992	9-Sep-11	Soil	383203	6819707	1531	25.6	1.96	40.34	21.61	273.6	1736	138.9	12	496	412.5	10.55	53.7	286.4
1299993	9-Sep-11	Soil	383197	6819604	1537	13.2	2.46	42.04	15.84	73.8	1197	98.1	13.7	840	449.3	9.51	43.8	549.2
1299994	9-Sep-11	Soil	383196	6819556	1538	77.6	1.68	53.95	16.3	90.2	985	254.1	33.5	782	705	18.52	79.4	292.9
1299995	9-Sep-11	Soil	383200	6819504	1541	24.2	2.52	29.39	23.73	121.7	374	286.1	32	828	391	9.31	229.5	292.6
1299996	9-Sep-11	Soil	383203	6819455	1542	2	2.16	17.31	11.1	57.7	121	69.9	5.7	291	78.6	2.14	39.3	281.4
1299997	9-Sep-11	Soil	383199	6819407	1552	3.3	4.4	26.58	21.06	95.4	447	70.1	10.3	426	110.8	3.29	63.3	308.5
1299998	9-Sep-11	Soil	383200	6819353	1543	4.3	5.88	31.51	12.29	87.9	158	45.1	10.7	338	28.7	2.34	31.3	231.7
1299999	9-Sep-11	Soil	383203	6819298	1548	1	4.42	16.08	15.25	73.4	75	24.9	7.2	264	75.6	1.56	35.9	78.7
1300000	9-Sep-11	Soil	383200	6819256	1542	4.5	6.14	34.39	8.53	78.9	51	42.4	8.8	239	24.6	1.16	42.9	165.8

ROCK SAMPLE LOCATION AND DESCRIPTIONS

Sample Number	Date	UTM E NAD83	UTM N NAD83	Meters asl	Lithology	Colour	Type	Sample	Description	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	As ppm	Sb ppm	Cr ppm	Ba ppm
1299001	08-Sep-11	383476	6820095	1550	Qtz	White	Float	Grab	Quartz float broken off a 15cm wide chunk, may be transported. Heavily oxidated on fracture.	<2	<1	7	123	42	<0.3	38	6	3072	9	<3	7	215
1299002	08-Sep-11	383390	6820104	1539	graphitic schist	Black, d. grey	Float	grab	Very graphitic, comes off readily on fingers. Some silicification occurs as small irregular blebs.	8	15	23	18	120	0.7	9	1	33	49	9	7	72
1299003	08-Sep-11	383340	6820113	1531	graphitic schist	d. grey	Float	grab	Contains parallel qtz/carb vein 'sweats' with associated oxidation stains.	11	6	102	18	185	0.6	23	3	199	67	9	12	223
1299004	08-Sep-11	383711	6820430	1583	Qtz/ wall rock	White, d. grey, orangey brown, d. red	Subcrop float	grab	Quartz grab. Wall rock is graphitic schistose unit, heavily oxidated and stained.	<2	<1	2	4	56	<0.3	6	3	429	13	<3	8	53
1299005	08-Sep-11	384115	6820233	1641	Qtz/carb, wall rock	White, Lt brown, d. grey	Subcrop float	grab	Wall rock float from micaceous schistose Nasina quartzite boulder exposure	<2	<1	7	7	29	<0.3	9	5	536	<2	<3	7	27
1299006	08-Sep-11	384566	6819756	1696	Listwanite	White, Lt green, d. grey, orange-red	Float	grab	From near first occurrence of listwanite on the ground heading south to outcrop. Heavy on fuschite, talc? and heavy orange/red oxi rind.	<2	<1	1	<3	4	<0.3	1079	37	463	18	6	303	29
1299007	08-Sep-11	384476	6819531	1738	Serpentinite?	green, d. grey	float	grab	A bit heavy, with fibrous serpentine? arranged in bladed form. Once a metavolcanic, now with carbonate alteration and maybe occasional silicification.	<2	<1	5	<3	8	<0.3	1774	84	595	54	4	1294	28
1299008	08-Sep-11	384518	6819493	1737	Altered metavolcanic	Orange, pink, white, l. grey	float	grab	Taken on the margins of felsensmeer and the listwanite. Bladed, slickenside-like faces with a carbonate-altered? wallrock behind.	<2	<1	8	5	5	<0.3	1443	49	893	10	7	608	185
1299009	08-Sep-11	384527	6819508	1735	Qtz	White	float	grab	Contains a few sub-millimeter, more or less parallel, oxidized fractures. From float field.	21	<1	3	8712	2336	68.3	11	<1	75	154	49	12	9
1299010	08-Sep-11	384526	6819509	1735	Qtz/Carb breccia	White, orange, reddish orange	float	grab	Breccia from same float field as 1299009. Clasts angular to subrounded, matrix heavily oxidized to orange or reddish orange mass.	4	<1	<1	30	59	<0.3	75	3	536	235	9	6	22
1299011	10-Sep-11	383147	6818622		Qtz	White, Lt brown, d. grey	Subcrop float	Grab	Bull quartz float from exposed schistose (graphitic?) Nasina unit in creek.	17	<1	1	83	41	0.3	7	1	309	219	<3	7	17
1299012	10-Sep-11	382654	6818368		Qtz	White, Lt brown, d. grey	Float	Grab	Bull quartz float from area	<2	<1	15	82	27	1.7	11	4	376	15	<3	7	32
1299013	10-Sep-11	382654	6818368		Nasina qtzite	White, Lt brown, d. grey	Subcrop float	Grab	Schistose, micaceous Nasina quartzite unit float from area.	<2	<1	29	11	114	<0.3	41	16	423	52	<3	11	93
1299014	10-Sep-11	382543	6817944		Qtz/Wall rock	White, Lt brown, d. grey	Subcrop float	Grab	Qtz float with some wall rock	<2	<1	10	21	22	<0.3	10	5	346	4	<3	12	24
1299015	10-Sep-11	383413	6817916		Qtz	White, d. grey	Subcrop float	Grab	Qtz float from 030 trending 3m high embankment. Micaceous schist exposed.	<2	<1	4	18	21	<0.3	8	3	790	14	<3	7	57
1299016	11-Sep-11	384392	6817604		Qtz/carb vein/Wall rock	White, Lt brown, d. grey	Subcrop float	Chip	Qtz vein with some carb. and wall rock (Nasina schistose micaceous quartzite unit) below site of 454 ppb at RDU-C-023. Wall rock heavily weathered.	<2	<1	1	18	15	<0.3	5	2	720	3	<3	10	37
1299017	11-Sep-11	384383	6817611		Qtz vein/Wall rock	White, d.grey, black	Subcrop float	Chip	Qtz vein and wall rock (Nasina schistose micaceous quartzite unit)	<2	1	5	78	11	0.6	10	3	182	5	<3	7	34
1299018	11-Sep-11	385221	6818182		Qtz carb vein/Wall rock	White, d.grey, black	Float	Grab	Mild scree field contains qtz/carb. Sample taken of Nasina wallrock as chips across scree.	<2	<1	4	7	21	<0.3	9	6	673	9	<3	8	41
1299019	11-Sep-11	385361	6818871		Qtz carb vein/Wall rock	White, rusty orange brown, d. grey	Float	Grab	Qtz/carb wall rock plucked along a ~50m stretch of listwanite/Nasina contact	16	<1	16	4	3	<0.3	44	2	482	143	5	19	22
1299020	11-Sep-11	385183	6819230		Qtz	White	Float	Grab	Qtz float from north edge of listwanite slope. Float is scattered over ~100 sq. m.	3	<1	16	<3	9	1.2	10	1	523	4	4	9	43

# **APPENDIX B**

*Analytical Reports*



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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**Client:** 0919233 B.C. Ltd  
830-355 Burrard St.  
Vancouver B.C. V6C 2G8 Canada

Submitted By: Harmen Keyser  
Receiving Lab: Canada-Whitehorse  
Received: September 14, 2011  
Report Date: November 21, 2011  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI11001710.1

### CLIENT JOB INFORMATION

Project: Rivier  
Shipment ID: 2011-01  
P.O. Number  
Number of Samples: 20

### 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.

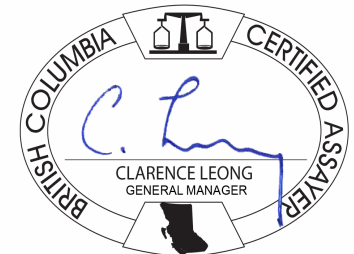
Invoice To: 0919233 B.C. Ltd  
830-355 Burrard St.  
Vancouver B.C. V6C 2G8  
Canada

CC: database backup  
Roger Hulstein  
Chris McKnight

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	20	Crush, split and pulverize 250 g rock to 200 mesh			VAN
3B01	20	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1D01	20	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. 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: November 21, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11001710.1

Method	WGHT	3B	1D	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	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	2	1	0.5	3	3	1	0.01	
1299001	Rock	1.30	<2	<1	7	123	42	<0.3	38	6	3072	1.81	9	<2	<2	12	<0.5	<3	<3	1	0.11
1299002	Rock	0.71	8	15	23	18	120	0.7	9	1	33	1.20	49	<2	3	6	<0.5	9	<3	12	0.02
1299003	Rock	0.69	11	6	102	18	185	0.6	23	3	199	1.78	67	<2	5	266	2.0	9	<3	67	2.67
1299004	Rock	0.33	<2	<1	2	4	56	<0.3	6	3	429	2.01	13	<2	2	1	<0.5	<3	<3	2	0.01
1299005	Rock	1.49	<2	<1	7	7	29	<0.3	9	5	536	1.32	<2	<2	<2	69	<0.5	<3	<3	17	1.96
1299006	Rock	1.50	<2	<1	1	<3	4	<0.3	1079	37	463	3.37	18	<2	<2	7	<0.5	6	<3	16	0.20
1299007	Rock	1.75	<2	<1	5	<3	8	<0.3	1774	84	595	4.54	54	<2	<2	8	<0.5	4	<3	26	0.35
1299008	Rock	0.84	<2	<1	8	5	5	<0.3	1443	49	893	2.09	10	<2	<2	88	<0.5	7	<3	11	2.00
1299009	Rock	0.69	21	<1	3	8712	2336	68.3	11	<1	75	0.31	154	<2	<2	19	15.8	49	78	<1	0.38
1299010	Rock	1.13	4	<1	<1	30	59	<0.3	75	3	536	0.96	235	<2	<2	257	<0.5	9	<3	4	6.68
1299011	Rock	1.13	17	<1	1	83	41	0.3	7	1	309	1.35	219	<2	<2	65	<0.5	<3	<3	1	1.66
1299012	Rock	0.94	<2	<1	15	82	27	1.7	11	4	376	1.65	15	<2	<2	4	<0.5	<3	6	2	0.08
1299013	Rock	0.75	<2	<1	29	11	114	<0.3	41	16	423	5.10	52	<2	10	4	<0.5	<3	<3	8	0.03
1299014	Rock	1.55	<2	<1	10	21	22	<0.3	10	5	346	1.13	4	<2	2	5	<0.5	<3	<3	3	0.04
1299015	Rock	1.02	<2	<1	4	18	21	<0.3	8	3	790	1.07	14	<2	<2	6	<0.5	<3	<3	3	0.09
1299016	Rock	1.41	<2	<1	1	18	15	<0.3	5	2	720	1.17	3	<2	<2	53	<0.5	<3	<3	3	1.81
1299017	Rock	1.06	<2	1	5	78	11	0.6	10	3	182	0.53	5	<2	<2	13	<0.5	<3	4	2	0.20
1299018	Rock	0.88	<2	<1	4	7	21	<0.3	9	6	673	2.25	9	<2	<2	165	<0.5	<3	<3	9	5.41
1299019	Rock	1.09	16	<1	16	4	3	<0.3	44	2	482	1.18	143	<2	<2	190	<0.5	5	<3	3	4.29
1299020	Rock	1.05	3	<1	16	<3	9	1.2	10	1	523	0.74	4	<2	<2	100	<0.5	4	<3	2	2.12



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Project: Rivier  
 Report Date: November 21, 2011

Page: 2 of 2 Part 2

# CERTIFICATE OF ANALYSIS

WHI11001710.1

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	5	5	
1299001	Rock	0.047	3	7	0.06	215	<0.001	<20	0.23	0.03	0.09	<2	<0.05	<5	<5
1299002	Rock	0.029	5	7	0.05	72	<0.001	<20	0.18	<0.01	0.10	<2	<0.05	<5	<5
1299003	Rock	1.387	8	12	0.07	223	0.002	<20	0.65	<0.01	0.27	<2	<0.05	<5	<5
1299004	Rock	0.014	7	8	0.06	53	<0.001	<20	0.10	<0.01	0.06	<2	<0.05	<5	<5
1299005	Rock	0.015	<1	7	0.53	27	0.001	<20	0.63	<0.01	<0.01	<2	<0.05	<5	<5
1299006	Rock	0.002	1	303	18.77	29	<0.001	<20	0.06	<0.01	<0.01	<2	0.06	<5	<5
1299007	Rock	<0.001	2	1294	19.04	28	0.003	109	0.38	<0.01	<0.01	<2	<0.05	8	<5
1299008	Rock	0.001	2	608	20.85	185	0.001	<20	0.15	<0.01	<0.01	<2	<0.05	<5	<5
1299009	Rock	<0.001	<1	12	0.33	9	<0.001	<20	0.01	<0.01	<0.01	<2	0.26	<5	<5
1299010	Rock	<0.001	<1	6	4.56	22	<0.001	<20	0.01	<0.01	<0.01	<2	<0.05	<5	<5
1299011	Rock	0.006	4	7	0.43	17	<0.001	<20	0.03	<0.01	0.02	<2	<0.05	<5	<5
1299012	Rock	0.012	1	7	0.13	32	<0.001	<20	0.27	<0.01	0.03	<2	<0.05	<5	<5
1299013	Rock	0.039	27	11	0.25	93	<0.001	<20	0.61	0.01	0.19	<2	<0.05	<5	<5
1299014	Rock	0.014	4	12	0.21	24	<0.001	<20	0.44	0.01	0.04	<2	<0.05	<5	<5
1299015	Rock	0.043	2	7	0.07	57	<0.001	<20	0.14	<0.01	0.04	<2	<0.05	<5	<5
1299016	Rock	0.017	2	10	0.15	37	<0.001	<20	0.20	<0.01	0.06	<2	<0.05	<5	<5
1299017	Rock	0.098	4	7	0.06	34	0.001	<20	0.12	<0.01	0.09	<2	<0.05	<5	<5
1299018	Rock	0.061	4	8	0.46	41	0.002	<20	0.43	<0.01	0.16	<2	<0.05	<5	<5
1299019	Rock	0.001	<1	19	7.21	22	<0.001	<20	0.04	<0.01	0.02	<2	<0.05	<5	<5
1299020	Rock	0.003	2	9	1.19	43	<0.001	<20	0.08	<0.01	0.03	<2	<0.05	<5	<5



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QUALITY CONTROL REPORT

WHI11001710.1

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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	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	2	1	0.5	3	3	1	0.01	
Pulp Duplicates																					
1299003	Rock	0.69	11	6	102	18	185	0.6	23	3	199	1.78	67	<2	5	266	2.0	9	<3	67	2.67
REP 1299003	QC	17																			
1299016	Rock	1.41	<2	<1	1	18	15	<0.3	5	2	720	1.17	3	<2	<2	53	<0.5	<3	<3	3	1.81
REP 1299016	QC	<2																			
Reference Materials																					
STD DS8	Standard		15	112	130	330	1.6	40	7	630	2.54	28	<2	7	67	2.3	6	7	42	0.70	
STD OREAS45CA	Standard		1	550	23	64	<0.3	268	95	982	17.30	4	<2	8	16	<0.5	<3	<3	216	0.46	
STD OXC88	Standard	197																			
STD OXC88	Standard	190																			
STD OXH82	Standard	1264																			
STD OXH82	Standard	1269																			
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	
STD OREAS45CA Expected			1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265	
STD OXC88 Expected		203																			
STD OXH82 Expected		1278																			
BLK	Blank		<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
Prep Wash																					
G1	Prep Blank	<0.01	<2	<1	2	4	46	<0.3	4	4	562	2.03	<2	<2	6	71	<0.5	<3	<3	38	0.57
G1	Prep Blank	<0.01	<2	<1	1	3	46	<0.3	4	4	580	1.95	<2	<2	6	65	<0.5	<3	<3	38	0.50



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Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11001710.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	5	5
Pulp Duplicates															
1299003	Rock	1.387	8	12	0.07	223	0.002	<20	0.65	<0.01	0.27	<2	<0.05	<5	<5
REP 1299003	QC														
1299016	Rock	0.017	2	10	0.15	37	<0.001	<20	0.20	<0.01	0.06	<2	<0.05	<5	<5
REP 1299016	QC														
Reference Materials															
STD DS8	Standard	0.081	14	115	0.66	301	0.107	<20	0.92	0.09	0.43	3	0.17	<5	7
STD OREAS45CA	Standard	0.038	17	762	0.19	170	0.125	<20	4.00	<0.01	0.08	<2	<0.05	50	21
STD OXC88	Standard														
STD OXC88	Standard														
STD OXH82	Standard														
STD OXH82	Standard														
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
STD OXC88 Expected															
STD OXH82 Expected															
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
Prep Wash															
G1	Prep Blank	0.077	15	6	0.55	151	0.124	<20	0.99	0.10	0.50	<2	<0.05	<5	7
G1	Prep Blank	0.078	13	7	0.53	156	0.119	<20	0.91	0.09	0.48	<2	<0.05	<5	7



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Vancouver B.C. V6C 2G8 Canada

Submitted By: Harmen Keyser  
Receiving Lab: Canada-Whitehorse  
Received: September 14, 2011  
Report Date: November 21, 2011  
Page: 1 of 11

## CERTIFICATE OF ANALYSIS

WHI11001712.1

### CLIENT JOB INFORMATION

Project: Rivier  
Shipment ID: 2011-01  
P.O. Number  
Number of Samples: 295

### 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.

Invoice To: 0919233 B.C. Ltd  
830-355 Burrard St.  
Vancouver B.C. V6C 2G8  
Canada

CC: Chris McKnight  
database backup

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	295	Dry at 60C			WHI
SS80	295	Dry at 60C sieve 100g to -80 mesh			WHI
1F05	295	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	295	Saving all or part of Soil Reject			WHI

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. 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: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

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	
1299021	Silt	3.40	83.40	29.37	203.3	1304	96.6	27.0	733	5.04	229.8	2.5	87.5	5.9	34.6	1.89	8.15	0.36	34	0.48	0.205
1299022	Silt	5.24	140.6	43.19	301.5	2228	126.9	34.9	1199	6.98	420.5	4.3	296.2	4.6	36.5	3.58	11.43	0.45	28	0.39	0.207
1299023	Silt	1.27	33.46	17.95	136.7	400	162.7	20.7	629	3.56	129.8	2.0	11.3	5.3	22.6	1.36	3.46	0.28	23	0.40	0.133
1299024	Silt	1.15	26.91	15.89	124.2	465	159.6	18.8	641	3.32	147.9	2.2	21.0	4.2	24.4	1.13	3.10	0.29	20	0.43	0.147
1299025	Silt	1.74	36.08	16.55	123.3	653	95.7	17.7	548	3.91	238.6	4.4	20.2	2.9	23.3	0.80	4.19	0.27	19	0.32	0.123
1299026	Silt	5.69	64.47	18.98	137.9	533	150.4	25.8	796	3.84	192.3	2.0	8.7	8.1	32.0	0.98	5.29	0.26	24	0.57	0.111
1299042	Soil	3.30	45.64	98.71	160.2	868	49.1	17.4	733	3.36	637.3	6.6	10.5	8.8	64.1	0.53	0.68	0.71	25	1.22	0.124
1299043	Soil	2.14	7.99	74.19	40.0	333	6.5	3.5	340	1.83	113.4	2.1	1.5	1.2	30.2	0.15	0.31	2.04	15	0.57	0.115
1299044	Soil	1.30	18.54	26.65	188.5	171	14.7	11.1	590	2.80	119.5	1.4	7.6	4.7	15.1	1.66	0.40	0.30	27	0.28	0.109
1299045	Soil	0.31	4.25	2.92	8.8	79	1.8	0.7	43	0.39	3.7	0.5	1.5	0.4	6.5	0.12	0.05	0.08	7	0.07	0.063
1299046	Soil	2.51	23.72	32.67	158.1	288	19.6	17.7	2106	4.16	226.1	2.0	9.0	2.0	15.7	1.33	0.65	0.51	30	0.33	0.183
1299047	Soil	1.25	9.43	26.99	71.8	417	11.2	7.4	411	2.20	70.8	2.5	5.2	1.7	18.5	0.32	0.25	0.36	20	0.46	0.111
1299048	Soil	1.24	15.14	6.30	17.8	525	6.6	3.8	326	1.04	179.9	0.6	24.6	0.3	13.1	0.12	0.53	0.10	11	0.09	0.073
1299049	Soil	1.07	38.43	15.77	90.1	84	62.6	16.3	895	3.87	19.9	1.2	3.3	5.5	15.3	0.11	0.94	0.27	42	0.23	0.105
1299050	Soil	0.69	25.14	13.11	59.3	92	43.5	14.4	538	2.84	15.2	0.9	5.2	1.3	13.7	0.14	0.63	0.18	32	0.19	0.104
1299051	Soil	2.09	52.74	16.99	100.6	493	64.8	15.1	581	3.22	101.4	1.3	23.7	8.2	22.1	0.63	4.10	0.28	35	0.29	0.088
1299052	Soil	1.45	28.35	14.83	70.4	176	56.0	13.7	433	2.88	33.5	1.0	5.8	5.1	12.3	0.27	1.46	0.19	40	0.17	0.069
1299053	Soil	1.94	30.73	20.53	93.1	98	66.0	17.2	563	3.43	62.9	1.0	7.0	5.8	18.1	0.59	2.16	0.24	37	0.26	0.092
1299054	Soil	4.98	37.21	18.63	73.3	146	33.9	9.4	1071	3.72	246.1	1.3	4.1	1.6	30.4	0.34	4.48	0.36	23	0.41	0.095
1299055	Soil	1.83	35.76	20.54	87.2	163	56.4	10.3	396	3.27	143.1	1.8	6.5	2.8	29.4	0.51	2.78	0.22	23	0.49	0.091
1299056	Soil	1.74	18.82	16.77	83.5	288	70.8	10.3	8028	2.37	119.7	1.7	5.3	2.8	33.0	1.74	1.04	0.21	22	0.66	0.101
1299057	Soil	0.73	16.09	12.82	49.2	485	49.7	5.7	914	1.38	109.7	4.9	4.4	2.0	60.2	1.15	4.17	0.22	17	1.20	0.202
1299058	Soil	1.32	7.66	15.55	47.4	153	13.6	6.1	260	2.20	68.7	0.8	1.3	0.9	11.2	0.19	0.44	0.30	21	0.21	0.082
1299059	Soil	1.21	10.49	16.90	42.1	291	23.2	7.3	301	2.15	56.8	1.1	2.9	1.6	9.2	0.25	0.60	0.27	25	0.18	0.072
1299060	Soil	10.18	74.68	37.52	80.2	1542	67.5	11.0	579	3.13	154.1	3.9	14.0	7.6	22.7	0.72	7.01	0.31	26	0.18	0.128
1299061	Soil	2.01	35.71	22.71	85.0	909	47.1	9.9	439	2.87	94.5	1.8	7.2	3.3	14.4	0.42	2.07	0.31	31	0.21	0.081
1299062	Soil	1.12	31.91	15.66	71.2	354	1059	63.8	808	4.21	104.3	1.1	6.8	5.4	13.3	0.38	3.22	0.21	37	0.21	0.071
1299063	Soil	1.49	14.61	15.76	76.5	59	187.3	20.0	393	2.69	39.9	0.9	2.1	2.2	13.8	0.37	1.64	0.22	38	0.19	0.087
1299064	Soil	1.15	15.80	11.01	64.0	51	264.2	26.5	429	2.78	35.9	0.9	1.4	3.9	12.3	0.41	2.21	0.22	37	0.17	0.055
1299065	Soil	0.69	12.02	7.58	49.6	53	511.7	28.8	337	2.85	16.0	0.6	7.1	1.9	10.9	0.33	0.86	0.16	40	0.17	0.062

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Project: Rivier  
 Report Date: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		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	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
1299021	Silt	23.3	66.1	0.59	98.7	0.018	2	0.86	0.001	0.04	2.0	3.3	0.05	0.06	36	1.5	0.07	2.7	2.33	<0.1	<0.02
1299022	Silt	16.0	52.2	0.42	113.1	0.011	1	0.80	0.002	0.04	0.9	3.6	0.07	0.43	40	3.4	0.14	2.2	3.46	<0.1	<0.02
1299023	Silt	19.0	98.3	1.12	80.5	0.009	3	0.81	<0.001	0.09	0.6	2.7	0.06	0.04	32	0.8	<0.02	2.3	3.84	<0.1	0.03
1299024	Silt	19.8	85.7	0.91	90.2	0.006	2	0.77	0.002	0.08	0.4	2.5	0.05	0.03	31	0.7	<0.02	2.2	3.74	<0.1	0.03
1299025	Silt	21.1	45.5	0.37	88.2	0.005	2	0.77	0.003	0.04	0.4	2.2	0.05	0.03	30	0.9	0.05	2.2	1.86	<0.1	<0.02
1299026	Silt	22.2	77.6	1.15	96.6	0.002	2	0.62	<0.001	0.06	0.4	3.4	0.08	0.09	24	1.2	0.05	1.7	4.16	<0.1	0.06
1299042	Soil	23.1	15.6	0.52	178.8	0.002	2	1.35	0.002	0.16	<0.1	2.7	0.18	0.13	75	1.5	0.04	3.5	7.11	<0.1	0.38
1299043	Soil	18.5	8.4	0.13	197.1	0.006	2	0.84	0.003	0.22	0.2	0.6	0.24	0.10	56	0.1	0.06	2.7	7.01	<0.1	0.03
1299044	Soil	17.9	10.5	0.28	127.0	0.008	<1	0.92	0.004	0.13	0.1	2.2	0.10	<0.02	12	0.2	<0.02	2.7	3.04	<0.1	<0.02
1299045	Soil	3.7	2.8	0.02	50.6	0.007	<1	0.48	0.026	0.07	<0.1	0.4	0.04	0.06	27	0.2	<0.02	1.7	0.86	<0.1	<0.02
1299046	Soil	13.1	14.5	0.22	177.3	0.003	1	1.06	0.003	0.21	0.2	2.4	0.17	0.08	19	0.5	0.02	3.3	5.53	<0.1	0.03
1299047	Soil	21.4	11.6	0.24	172.8	0.003	1	1.15	0.007	0.16	0.1	1.2	0.16	0.04	28	<0.1	<0.02	2.9	7.10	<0.1	<0.02
1299048	Soil	3.3	4.5	0.06	34.5	0.014	<1	0.59	0.026	0.04	<0.1	0.6	0.03	0.02	23	0.2	<0.02	2.0	1.58	<0.1	<0.02
1299049	Soil	36.6	72.3	0.83	153.9	0.023	1	1.78	0.002	0.05	0.3	3.7	0.07	<0.02	31	0.1	0.03	5.6	4.43	<0.1	<0.02
1299050	Soil	23.4	59.5	0.72	89.4	0.024	1	1.44	0.011	0.04	0.2	1.6	0.06	0.04	31	0.1	<0.02	4.7	2.44	<0.1	<0.02
1299051	Soil	16.9	39.9	0.49	202.9	0.037	2	1.02	0.010	0.11	0.3	3.7	0.10	<0.02	60	0.5	0.08	2.8	1.50	<0.1	0.09
1299052	Soil	28.6	61.8	0.68	190.5	0.032	1	1.35	0.003	0.07	0.2	2.7	0.11	<0.02	30	0.3	<0.02	4.0	1.57	<0.1	<0.02
1299053	Soil	19.8	60.7	0.68	178.8	0.021	2	1.27	0.004	0.09	0.3	2.5	0.13	<0.02	25	0.5	0.03	3.3	1.67	<0.1	<0.02
1299054	Soil	12.7	23.5	0.14	438.5	0.005	1	0.58	0.004	0.05	0.3	1.4	0.14	0.04	29	1.1	0.08	2.3	3.93	<0.1	0.02
1299055	Soil	14.7	38.5	0.42	356.6	0.007	2	0.92	0.005	0.10	0.3	2.2	0.11	0.03	21	0.6	0.03	2.5	5.60	<0.1	0.02
1299056	Soil	17.0	27.9	0.36	582.6	0.007	2	0.88	0.004	0.11	0.2	2.3	0.18	0.06	23	1.0	0.03	2.5	3.05	<0.1	0.06
1299057	Soil	34.4	176.1	0.57	419.5	0.008	4	1.26	0.015	0.10	0.6	1.5	0.18	0.19	81	1.5	<0.02	2.2	8.60	<0.1	0.11
1299058	Soil	18.3	17.5	0.24	51.3	0.004	<1	0.73	0.002	0.08	0.2	0.5	0.09	<0.02	9	0.1	0.02	2.6	1.88	<0.1	<0.02
1299059	Soil	24.8	28.8	0.30	129.1	0.007	<1	1.12	0.002	0.09	0.3	1.0	0.13	<0.02	19	0.2	<0.02	3.1	2.06	<0.1	0.09
1299060	Soil	23.1	26.6	0.25	136.0	0.012	<1	0.67	0.003	0.09	0.3	2.9	0.12	0.03	61	2.6	0.08	1.7	1.80	<0.1	0.06
1299061	Soil	26.2	36.8	0.40	211.5	0.012	<1	1.25	0.004	0.12	0.3	2.6	0.15	<0.02	37	0.3	0.04	3.5	2.57	<0.1	<0.02
1299062	Soil	15.6	608.6	6.06	132.9	0.024	8	1.14	0.006	0.10	0.5	5.0	0.10	<0.02	61	0.3	0.03	2.9	2.35	<0.1	0.04
1299063	Soil	14.2	184.0	1.82	228.5	0.018	2	1.09	0.005	0.07	0.3	2.1	0.10	<0.02	14	0.2	<0.02	3.2	1.12	<0.1	<0.02
1299064	Soil	14.5	235.7	2.12	136.7	0.038	3	1.01	0.008	0.06	0.3	2.7	0.08	<0.02	18	0.1	0.03	2.9	1.04	<0.1	<0.02
1299065	Soil	10.8	379.4	3.69	143.6	0.031	5	1.16	0.008	0.06	0.3	3.7	0.07	0.02	21	0.2	0.03	3.3	1.79	<0.1	<0.02

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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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	
1299021	Silt	0.44	4.9	0.3	<0.05	0.7	9.89	44.2	0.04	2	0.4	12.7	<10	<2
1299022	Silt	0.29	5.0	0.2	<0.05	1.0	13.33	29.8	0.04	3	0.4	10.6	<10	<2
1299023	Silt	0.21	7.0	0.1	<0.05	3.4	10.85	36.9	0.03	<1	0.4	18.4	<10	<2
1299024	Silt	0.21	8.0	0.2	<0.05	0.8	10.94	38.9	0.02	<1	0.4	16.1	<10	<2
1299025	Silt	0.18	10.0	0.1	<0.05	0.9	7.78	39.2	0.02	<1	0.4	12.3	<10	<2
1299026	Silt	0.06	4.1	0.2	<0.05	3.6	9.02	42.5	<0.02	5	0.3	8.2	<10	2
1299042	Soil	0.28	15.6	0.4	<0.05	11.4	22.50	35.6	0.03	<1	0.8	22.7	<10	<2
1299043	Soil	0.57	27.6	0.9	<0.05	0.8	10.47	34.7	<0.02	<1	0.6	8.7	<10	<2
1299044	Soil	0.13	11.5	0.5	<0.05	0.4	13.98	35.8	0.02	<1	0.7	26.6	<10	<2
1299045	Soil	0.18	5.2	0.7	<0.05	0.6	2.67	6.7	<0.02	<1	0.2	2.0	<10	<2
1299046	Soil	0.25	24.5	0.9	<0.05	0.8	13.63	31.2	0.05	<1	0.9	19.0	<10	<2
1299047	Soil	0.28	21.9	0.5	<0.05	0.5	14.98	35.7	<0.02	<1	0.8	21.6	<10	<2
1299048	Soil	0.15	3.6	0.1	<0.05	0.3	2.25	6.6	<0.02	<1	0.1	1.9	<10	<2
1299049	Soil	0.50	7.5	0.6	<0.05	1.1	8.60	73.5	0.03	<1	0.4	33.0	<10	<2
1299050	Soil	0.57	5.9	0.4	<0.05	0.4	4.68	46.9	<0.02	<1	0.3	20.1	<10	<2
1299051	Soil	0.28	7.7	1.0	<0.05	6.6	10.20	32.3	0.03	<1	0.4	10.8	<10	<2
1299052	Soil	0.49	9.1	0.4	<0.05	0.5	8.49	55.8	0.03	<1	0.5	15.4	<10	<2
1299053	Soil	0.62	9.9	0.6	<0.05	0.7	6.68	42.0	0.03	<1	0.6	20.2	<10	<2
1299054	Soil	0.30	8.1	0.3	<0.05	0.5	2.69	24.7	<0.02	<1	0.3	2.1	<10	<2
1299055	Soil	0.40	10.8	0.6	<0.05	0.9	6.51	31.0	0.02	<1	0.5	13.7	<10	<2
1299056	Soil	0.25	13.9	0.4	<0.05	1.5	10.70	34.7	<0.02	2	0.6	15.5	<10	<2
1299057	Soil	0.59	11.7	0.4	<0.05	2.7	23.80	53.8	<0.02	2	1.3	15.8	10	6
1299058	Soil	0.09	11.7	0.2	<0.05	0.2	4.38	37.8	<0.02	<1	0.2	8.2	<10	<2
1299059	Soil	0.16	15.2	0.5	<0.05	0.3	5.44	49.5	0.02	<1	0.4	13.1	<10	<2
1299060	Soil	0.22	8.9	0.3	<0.05	2.8	14.81	43.4	0.04	<1	0.6	11.2	<10	2
1299061	Soil	0.19	15.0	0.7	<0.05	0.3	10.11	51.8	<0.02	1	0.6	20.1	<10	<2
1299062	Soil	0.31	8.2	0.3	<0.05	1.8	8.49	33.3	<0.02	<1	0.5	16.6	<10	3
1299063	Soil	0.21	9.8	0.6	<0.05	0.1	4.81	29.7	<0.02	<1	0.4	15.7	<10	<2
1299064	Soil	0.44	7.5	0.5	<0.05	0.7	4.51	31.9	<0.02	<1	0.3	13.9	<10	<2
1299065	Soil	0.46	7.6	0.7	<0.05	0.4	4.14	22.7	<0.02	<1	0.2	11.5	<10	<2



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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				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
1299066	Soil			0.56	11.91	6.91	44.5	28	524.2	27.7	299	2.68	16.7	0.9	1.4	2.1	11.3	0.29	0.85	0.13	34	0.19	0.056
1299067	Soil			0.96	17.89	10.24	61.2	129	325.3	27.4	465	2.66	33.1	0.8	2.2	3.6	15.1	0.34	2.08	0.19	39	0.20	0.053
1299068	Soil			0.66	19.16	7.29	48.9	206	843.1	34.2	381	3.04	57.4	0.7	3.7	2.4	10.7	0.23	4.66	0.14	32	0.16	0.042
1299069	Soil			0.36	20.27	7.51	56.2	238	967.4	42.2	242	3.10	63.7	0.7	6.6	3.8	11.9	0.21	9.61	0.16	37	0.19	0.040
1299070	Soil			0.86	22.97	8.11	61.8	197	933.2	53.6	838	4.04	189.7	0.7	5.2	1.7	16.4	0.37	16.78	0.15	36	0.32	0.091
1299071	Soil			0.25	18.88	8.70	63.6	178	617.9	31.7	249	2.63	35.4	0.7	4.1	4.3	12.5	0.28	4.98	0.15	33	0.21	0.042
1299072	Soil			0.92	13.77	7.91	51.0	52	748.6	39.9	554	3.38	27.9	0.7	3.7	2.6	9.2	0.25	2.43	0.17	39	0.12	0.034
1299073	Soil			0.68	20.74	7.87	64.9	205	1099	72.6	1189	4.57	75.3	0.5	2.1	1.1	11.4	0.32	5.46	0.14	46	0.21	0.059
1299074	Soil			0.73	20.97	7.06	59.0	246	1042	48.2	528	3.60	89.4	0.8	8.0	2.0	11.2	0.27	9.40	0.15	41	0.18	0.053
1299075	Soil			0.82	17.74	8.06	54.2	176	850.9	42.3	636	3.72	94.9	0.7	3.0	2.6	13.1	0.28	12.69	0.15	39	0.20	0.031
1299076	Soil			0.81	18.69	8.28	55.4	227	1031	53.1	811	4.23	179.1	0.7	7.4	2.1	11.6	0.38	18.26	0.14	42	0.18	0.040
1299077	Soil			4.99	49.68	17.92	100.5	554	1015	37.5	532	3.37	867.5	1.7	31.1	7.5	89.0	0.58	208.6	0.48	23	0.49	0.051
1299078	Soil			9.69	150.5	41.52	153.2	3805	178.8	47.7	1160	6.24	2200	3.3	56.0	9.6	101.0	1.30	39.16	0.53	23	0.60	0.223
1299079	Soil			1.51	77.81	8.37	66.4	1031	251.8	21.5	692	3.39	850.2	0.7	140.8	6.3	35.4	0.21	19.25	0.18	17	0.45	0.068
1299080	Soil			2.07	35.51	11.17	77.7	303	1082	54.7	1059	3.77	218.1	1.1	8.7	5.0	23.9	0.52	33.82	0.32	27	0.26	0.064
1299081	Soil			24.47	85.20	27.29	184.6	917	21.5	2.0	24	2.69	856.4	6.9	2.4	5.9	46.3	0.77	4.07	0.28	36	0.09	0.165
1299082	Soil			13.42	106.3	20.80	46.7	1435	95.8	12.4	582	2.75	201.6	5.2	7.9	2.3	48.0	0.52	3.45	0.25	35	0.62	0.224
1299083	Soil			1.25	40.57	13.29	116.6	120	65.1	25.2	573	4.52	31.9	1.5	1.8	18.2	14.1	0.50	1.07	0.53	19	0.18	0.073
1299084	Soil			1.84	65.22	48.36	163.5	706	62.7	25.5	855	4.45	113.7	1.8	6.0	17.5	15.0	0.24	3.33	0.75	7	0.15	0.036
1299085	Soil			4.70	69.52	18.19	192.6	583	229.9	23.5	677	4.70	262.4	2.1	23.0	9.0	19.4	1.92	23.17	0.42	25	0.24	0.098
1299086	Soil			2.33	61.08	33.00	166.3	1157	98.6	21.0	921	4.62	840.8	2.6	58.8	19.1	22.8	0.61	16.23	0.83	7	0.23	0.084
1299087	Soil			1.65	48.87	19.71	123.1	623	197.8	12.7	130	2.35	152.1	2.9	33.6	8.0	20.1	0.50	9.36	0.30	15	0.23	0.069
1299088	Soil			3.11	70.31	18.41	153.4	694	169.0	25.9	940	4.54	178.2	2.0	15.6	9.8	21.5	1.01	9.74	0.32	26	0.29	0.095
1299089	Soil			4.55	73.80	19.83	119.8	1109	189.9	23.0	533	4.06	505.9	2.2	49.9	7.3	28.5	0.73	11.19	0.28	25	0.25	0.083
1299090	Soil			0.92	23.77	6.02	48.9	227	2073	85.0	1056	4.98	473.6	0.6	12.6	2.4	35.5	0.28	45.07	0.10	36	0.67	0.043
1299091	Soil			2.13	34.09	14.38	87.1	320	378.9	23.5	489	3.13	116.4	1.0	6.9	5.5	14.7	0.51	6.33	0.22	35	0.17	0.048
1299092	Soil			0.97	12.26	16.07	54.5	116	54.6	8.6	262	1.91	72.0	1.4	9.9	3.9	15.7	0.27	0.92	0.20	19	0.32	0.096
1299093	Soil			1.72	27.00	21.87	76.4	216	239.7	23.0	573	2.95	144.6	1.7	4.4	6.4	15.5	0.61	3.67	0.26	28	0.26	0.111
1299094	Soil			0.89	17.54	14.26	77.1	75	363.6	21.4	402	3.00	111.5	1.2	4.7	2.8	13.6	0.18	2.47	0.26	34	0.19	0.048
1299095	Soil			1.06	17.02	17.15	71.9	97	108.6	13.1	407	2.60	77.4	1.2	5.8	1.7	14.2	0.30	2.91	0.29	36	0.12	0.047



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 Report Date: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	0.02	
1299066	Soil	12.3	370.1	3.84	110.2	0.033	4	0.94	0.008	0.04	0.2	3.4	0.05	<0.02	6	<0.1	<0.02	2.7	0.83	<0.1	<0.02
1299067	Soil	13.2	242.6	2.21	182.1	0.039	3	1.19	0.012	0.07	0.3	3.7	0.08	<0.02	22	0.3	0.03	3.3	1.72	<0.1	0.03
1299068	Soil	9.2	666.8	5.90	122.8	0.016	14	0.89	0.009	0.05	0.6	4.6	0.08	0.03	36	0.2	<0.02	2.3	1.08	<0.1	0.05
1299069	Soil	10.6	856.6	5.53	121.2	0.015	13	1.04	0.006	0.06	1.0	7.6	0.18	<0.02	119	0.2	0.03	2.5	2.38	<0.1	0.04
1299070	Soil	7.5	717.5	4.22	191.0	0.012	12	0.86	0.007	0.05	1.3	5.3	0.16	0.08	73	0.3	0.05	2.3	1.54	<0.1	0.06
1299071	Soil	11.2	634.5	4.85	124.0	0.019	11	0.97	0.006	0.05	0.7	5.6	0.09	0.02	53	0.2	0.03	2.6	1.22	<0.1	0.04
1299072	Soil	9.6	589.2	3.92	115.2	0.019	9	0.94	0.005	0.04	0.7	5.7	0.07	0.02	22	0.1	0.02	2.2	1.03	<0.1	0.03
1299073	Soil	7.5	953.9	5.17	147.0	0.013	15	0.96	0.004	0.04	1.0	7.1	0.08	0.06	91	0.5	0.03	2.1	1.50	<0.1	0.02
1299074	Soil	10.7	666.6	4.03	121.9	0.019	15	1.01	0.006	0.04	0.5	8.6	0.11	0.04	47	0.3	<0.02	2.7	4.85	<0.1	0.03
1299075	Soil	11.4	396.9	3.41	110.6	0.028	7	0.92	0.009	0.04	0.5	6.0	0.10	0.02	31	0.2	0.03	2.3	1.13	<0.1	0.03
1299076	Soil	11.5	531.5	3.58	131.9	0.025	6	0.95	0.007	0.05	0.6	6.8	0.12	0.03	53	0.1	<0.02	2.5	1.60	0.1	<0.02
1299077	Soil	21.2	219.3	2.65	224.4	0.005	5	0.48	0.003	0.07	0.6	3.5	0.25	0.04	49	0.6	<0.02	1.3	7.18	<0.1	0.03
1299078	Soil	13.8	24.0	0.30	149.3	0.002	4	0.29	0.002	0.10	1.0	5.7	0.15	0.14	47	3.2	0.19	0.8	7.69	<0.1	0.06
1299079	Soil	13.8	84.4	0.79	138.1	<0.001	7	0.35	0.002	0.07	0.6	7.9	0.15	0.03	43	0.5	0.05	0.8	6.22	<0.1	0.08
1299080	Soil	16.3	397.5	3.40	212.3	0.006	5	0.62	0.004	0.05	1.0	4.7	0.16	0.03	82	0.8	0.05	1.6	4.06	<0.1	0.08
1299081	Soil	23.7	12.3	0.07	219.7	0.001	2	0.22	0.002	0.09	0.4	1.6	0.08	0.11	55	5.3	0.07	0.6	2.50	<0.1	0.03
1299082	Soil	5.1	30.4	0.22	76.7	0.002	3	0.27	0.004	0.03	0.6	1.2	0.09	0.18	137	9.4	0.12	0.6	2.40	<0.1	0.18
1299083	Soil	54.1	41.1	0.86	94.0	0.009	<1	1.84	0.002	0.05	<0.1	2.2	0.04	<0.02	5	0.4	0.02	4.5	2.17	<0.1	0.20
1299084	Soil	16.6	10.1	0.10	69.0	<0.001	1	0.30	0.003	0.05	0.3	4.1	0.05	<0.02	48	0.4	0.05	0.5	2.50	<0.1	0.13
1299085	Soil	24.1	87.8	0.48	106.1	0.009	1	0.70	0.003	0.05	0.4	4.1	0.09	<0.02	54	0.9	0.13	1.7	2.24	<0.1	0.03
1299086	Soil	24.1	26.3	0.13	83.7	0.002	1	0.28	0.003	0.05	0.4	2.7	0.06	0.03	37	0.8	0.05	0.5	3.12	<0.1	0.12
1299087	Soil	20.0	114.4	0.57	219.4	0.002	2	0.64	0.003	0.04	0.3	4.2	0.10	0.03	45	1.2	0.02	1.6	2.34	<0.1	0.07
1299088	Soil	19.4	64.0	0.43	180.3	0.014	3	0.70	0.005	0.06	0.5	4.3	0.07	<0.02	30	1.3	0.04	1.8	1.93	<0.1	0.12
1299089	Soil	16.5	118.3	0.72	153.4	0.007	2	0.65	0.004	0.05	0.6	4.8	0.09	<0.02	68	1.5	0.06	1.6	1.81	<0.1	0.06
1299090	Soil	6.1	548.5	10.01	125.8	0.004	5	0.60	0.003	0.04	1.9	10.2	0.45	<0.02	175	0.3	<0.02	1.2	4.20	0.1	0.04
1299091	Soil	15.7	261.3	1.96	155.4	0.023	4	0.78	0.008	0.06	0.4	4.9	0.08	<0.02	48	0.4	<0.02	2.0	1.30	<0.1	0.05
1299092	Soil	17.4	44.4	0.46	130.4	0.011	<1	0.72	0.003	0.11	0.3	1.5	0.08	<0.02	18	0.3	<0.02	2.0	1.38	<0.1	<0.02
1299093	Soil	19.2	152.0	1.21	117.3	0.029	1	0.75	0.004	0.09	0.6	2.8	0.10	<0.02	33	0.6	0.02	2.0	1.65	<0.1	0.02
1299094	Soil	16.3	285.6	1.81	152.1	0.019	1	1.11	0.004	0.07	0.3	3.3	0.09	<0.02	11	0.2	<0.02	3.0	4.07	<0.1	<0.02
1299095	Soil	20.9	60.5	0.67	307.0	0.007	<1	1.49	0.004	0.05	0.2	1.5	0.14	<0.02	18	0.3	0.03	4.3	2.03	<0.1	<0.02

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.



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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

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	
1299066	Soil	0.19	5.4	0.4	<0.05	0.2	4.82	25.3	<0.02	<1	0.2	9.2	<10	<2
1299067	Soil	0.66	7.8	0.7	<0.05	1.3	5.75	29.6	0.02	<1	0.4	11.6	<10	<2
1299068	Soil	0.40	5.5	0.3	<0.05	1.6	5.55	16.5	0.02	<1	0.3	10.0	<10	3
1299069	Soil	0.29	7.2	0.6	<0.05	1.6	5.43	21.6	<0.02	<1	0.6	13.5	<10	3
1299070	Soil	0.52	7.3	0.3	<0.05	1.5	4.17	15.7	0.02	<1	0.5	9.4	<10	4
1299071	Soil	0.35	5.8	0.4	<0.05	1.7	5.71	23.4	0.02	<1	0.4	12.5	<10	<2
1299072	Soil	0.39	5.7	0.3	<0.05	1.0	3.92	18.6	0.03	<1	0.4	14.2	<10	<2
1299073	Soil	0.33	6.3	0.4	<0.05	0.7	3.96	14.3	0.02	<1	0.4	14.0	<10	4
1299074	Soil	0.45	6.0	0.3	<0.05	1.3	5.96	19.2	<0.02	2	0.5	16.5	<10	3
1299075	Soil	0.41	6.1	0.4	<0.05	0.8	4.89	22.2	<0.02	<1	0.4	11.6	<10	2
1299076	Soil	0.41	6.2	0.4	<0.05	0.7	4.87	22.2	<0.02	<1	0.7	10.8	<10	2
1299077	Soil	0.12	6.1	0.3	<0.05	2.1	5.07	39.4	<0.02	2	0.6	5.0	17	2
1299078	Soil	<0.02	7.1	0.3	<0.05	8.2	14.15	26.2	0.05	5	1.1	1.8	13	4
1299079	Soil	0.21	7.7	0.3	<0.05	2.9	8.97	27.3	0.03	<1	1.0	2.1	<10	2
1299080	Soil	0.22	6.1	0.2	<0.05	2.4	5.15	31.2	<0.02	<1	0.9	7.3	13	<2
1299081	Soil	<0.02	4.6	0.4	<0.05	2.5	5.97	39.7	0.02	17	0.4	0.3	<10	4
1299082	Soil	0.10	4.3	0.3	<0.05	6.8	3.77	10.5	0.02	<1	0.3	0.7	23	5
1299083	Soil	0.13	3.3	0.3	<0.05	9.9	6.76	102.9	<0.02	<1	0.2	34.3	11	<2
1299084	Soil	0.06	4.2	0.1	<0.05	7.8	13.82	28.3	0.03	2	0.6	2.1	17	2
1299085	Soil	0.20	4.8	0.5	<0.05	3.9	9.21	43.1	<0.02	2	0.3	8.0	<10	2
1299086	Soil	0.11	5.3	0.2	<0.05	11.1	9.41	45.7	<0.02	<1	0.6	2.1	<10	<2
1299087	Soil	0.13	6.8	0.7	<0.05	3.2	8.24	38.0	<0.02	<1	0.6	6.0	<10	<2
1299088	Soil	0.38	5.7	0.3	<0.05	6.6	10.24	37.0	0.03	<1	0.5	6.4	16	3
1299089	Soil	0.25	5.4	0.4	<0.05	2.5	9.09	31.5	0.03	2	0.4	6.0	11	<2
1299090	Soil	0.14	5.5	0.3	<0.05	1.5	4.04	12.4	<0.02	1	1.0	11.6	12	5
1299091	Soil	0.28	6.4	0.6	<0.05	2.0	7.57	28.8	0.02	<1	0.4	12.7	<10	3
1299092	Soil	0.31	10.9	0.4	<0.05	0.5	8.71	34.1	<0.02	2	0.5	13.1	<10	<2
1299093	Soil	0.24	9.9	0.5	<0.05	1.3	10.80	40.3	<0.02	2	0.4	14.4	<10	<2
1299094	Soil	0.33	14.1	0.4	<0.05	0.7	6.21	31.4	0.02	2	0.4	16.0	<10	2
1299095	Soil	0.35	13.2	0.7	<0.05	0.2	5.47	42.0	<0.02	<1	0.8	22.9	<10	<2

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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				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
1299096	Soil			1.04	21.60	15.05	71.9	95	194.9	18.9	587	2.62	52.6	1.5	5.6	3.7	14.1	0.33	1.86	0.26	35	0.16	0.043
1299097	Soil			0.80	13.14	10.52	56.1	66	479.6	31.2	455	2.91	26.3	1.0	<0.2	2.1	9.9	0.29	1.26	0.18	34	0.10	0.088
1299098	Soil			0.83	13.69	7.17	49.9	69	548.0	28.9	377	2.79	18.7	0.8	2.9	2.2	9.9	0.25	1.20	0.14	34	0.13	0.048
1299099	Soil			0.80	14.84	7.48	47.4	93	450.2	26.6	364	2.53	19.6	0.8	3.7	2.6	10.5	0.19	1.63	0.14	32	0.12	0.042
1299100	Soil			0.79	16.79	7.36	50.0	72	771.0	43.6	498	3.17	26.2	0.7	0.7	1.6	8.9	0.21	1.54	0.13	36	0.13	0.071
1299401	Soil			1.48	26.50	42.72	89.2	332	51.4	12.6	423	3.02	396.6	1.2	46.0	16.4	17.4	0.33	4.25	0.27	8	0.25	0.095
1299402	Soil			0.99	61.86	30.77	91.7	481	50.9	9.1	332	2.31	226.8	0.8	38.3	7.1	11.1	0.25	10.63	0.20	31	0.18	0.053
1299403	Soil			0.95	53.31	43.41	130.9	753	76.0	15.8	871	3.12	638.2	1.1	103.2	17.2	17.9	0.56	11.04	0.28	30	0.24	0.080
1299404	Soil			0.57	79.38	7.56	69.5	420	59.4	21.7	1150	4.51	135.6	0.4	20.9	1.3	17.0	0.10	7.68	0.09	67	0.50	0.062
1299405	Soil			1.28	95.76	9.34	85.0	553	68.3	24.9	1780	5.78	201.8	0.7	32.4	1.8	35.6	0.17	6.98	0.10	81	1.06	0.081
1299406	Soil			1.06	108.4	46.43	168.7	3019	227.4	21.2	1464	6.20	595.0	0.6	73.6	1.5	60.1	0.65	37.54	0.19	78	1.51	0.085
1299407	Soil			0.31	70.54	6.46	54.5	882	185.3	39.5	1562	5.67	97.3	0.3	9.6	1.4	13.2	0.15	7.38	0.04	135	0.36	0.044
1299408	Soil			0.31	52.36	10.68	77.6	1583	174.3	33.4	1107	4.76	1147	0.3	90.2	1.7	14.4	0.28	11.05	0.25	68	0.36	0.073
1299409	Soil			0.51	22.56	6.11	37.5	918	976.6	46.1	469	3.50	428.1	0.4	40.0	1.3	16.0	0.15	7.46	0.14	33	0.26	0.027
1299410	Soil			0.95	11.59	12.99	40.9	53	452.6	43.2	566	3.20	84.0	1.0	3.3	2.4	10.9	0.17	2.31	0.27	26	0.14	0.093
1299411	Soil			0.40	11.86	9.14	40.8	100	349.0	17.6	239	1.96	16.5	0.8	2.5	3.1	9.9	0.20	1.10	0.21	25	0.12	0.053
1299412	Soil			0.45	14.66	8.91	41.4	173	558.5	17.6	301	1.78	15.9	0.7	4.9	1.7	12.5	0.16	2.55	0.22	19	0.30	0.082
1299413	Soil			0.65	14.61	22.36	38.4	108	527.1	19.5	346	1.56	17.4	0.7	3.2	0.8	8.0	0.89	0.25	0.19	18	0.27	0.085
1299414	Soil			0.53	14.03	5.20	46.1	98	698.4	31.5	421	2.75	13.3	0.6	2.9	1.1	9.2	0.26	1.25	0.12	27	0.24	0.118
1299415	Soil			0.64	16.03	8.00	46.3	119	687.6	34.4	523	2.74	16.6	0.7	1.9	1.5	11.6	0.30	0.80	0.15	25	0.24	0.153
1299416	Soil			1.58	11.92	30.41	60.5	55	154.4	21.7	802	3.55	41.6	1.1	0.8	1.5	9.0	0.46	0.55	0.39	31	0.16	0.128
1299417	Soil			0.76	16.51	10.88	47.0	107	620.7	25.5	452	2.80	18.7	0.9	0.8	2.1	9.8	0.20	0.87	0.43	30	0.14	0.104
1299418	Soil			1.06	12.31	10.84	48.6	61	327.1	21.7	378	2.51	19.8	0.7	5.7	2.1	10.1	0.25	2.03	0.23	34	0.14	0.064
1299419	Soil			0.24	9.60	9.42	39.6	92	292.7	16.0	260	1.71	13.3	0.6	1.8	3.6	14.0	0.18	0.87	0.18	23	0.22	0.071
1299420	Soil			0.20	23.29	7.99	39.0	364	496.5	15.0	146	1.03	10.2	0.8	7.0	1.9	28.0	0.43	2.25	0.24	17	0.50	0.108
1299421	Soil			0.29	11.98	10.20	38.1	101	397.2	16.6	298	1.65	16.7	0.8	1.8	2.6	11.9	0.19	0.77	0.21	21	0.18	0.064
1299422	Soil			0.21	10.21	8.15	37.0	64	421.9	17.7	158	3.12	35.2	0.7	2.6	4.0	13.6	0.14	0.72	0.16	32	0.24	0.053
1299423	Soil			0.66	13.08	8.23	43.0	73	480.4	26.3	458	2.50	16.9	0.8	0.8	1.6	11.7	0.25	0.62	0.15	26	0.19	0.090
1299424	Soil			0.51	11.38	6.90	38.1	50	312.0	16.1	259	2.09	13.6	0.7	1.5	2.2	9.7	0.17	0.53	0.12	28	0.12	0.041
1299425	Soil			0.55	11.52	6.54	33.3	45	661.7	35.0	360	2.90	22.5	0.7	0.2	1.9	6.0	0.16	1.09	0.13	29	0.11	0.049



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Project: Rivier  
 Report Date: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
			ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	
1299096	Soil		22.3	107.9	0.84	203.9	0.023	<1	1.18	0.006	0.08	0.3	2.9	0.12	<0.02	25	0.1	<0.02	3.2	2.37	<0.1	<0.02
1299097	Soil		11.9	527.9	4.26	149.2	0.013	5	1.02	0.006	0.07	0.4	4.4	0.06	0.03	10	0.3	<0.02	2.6	1.25	<0.1	0.04
1299098	Soil		11.2	556.1	4.64	108.6	0.024	7	0.80	0.008	0.05	0.4	4.3	0.05	0.03	14	0.3	<0.02	2.1	0.60	<0.1	0.03
1299099	Soil		12.0	428.7	3.54	107.4	0.026	5	0.78	0.009	0.05	0.4	3.8	0.05	0.02	15	0.3	<0.02	1.9	0.55	<0.1	0.03
1299100	Soil		9.2	791.1	6.57	105.6	0.017	14	0.83	0.007	0.04	0.6	4.9	0.04	0.04	17	0.3	<0.02	2.1	0.54	<0.1	0.03
1299401	Soil		34.8	34.1	0.19	130.5	0.001	2	0.36	0.002	0.08	0.2	2.5	0.07	<0.02	12	0.2	0.03	0.5	2.91	<0.1	0.04
1299402	Soil		14.3	55.1	0.37	252.7	0.002	2	0.57	0.001	0.07	0.5	5.0	0.08	0.03	46	0.2	<0.02	1.6	2.19	<0.1	0.05
1299403	Soil		33.8	64.3	0.58	192.1	0.003	1	0.57	0.002	0.11	0.6	4.8	0.07	<0.02	18	0.2	0.04	1.5	3.68	<0.1	0.06
1299404	Soil		11.4	56.3	0.97	331.9	0.002	3	1.25	<0.001	0.08	1.0	16.7	0.10	0.04	51	0.1	0.04	2.6	9.30	<0.1	0.03
1299405	Soil		11.3	55.4	0.82	360.9	0.001	1	0.84	0.002	0.06	0.6	14.9	0.09	0.04	74	0.3	<0.02	2.3	3.53	<0.1	0.03
1299406	Soil		6.8	84.2	3.26	308.4	0.005	4	1.07	0.005	0.06	1.9	11.0	0.05	0.06	93	0.7	0.04	2.5	4.36	<0.1	0.03
1299407	Soil		12.7	283.2	3.52	125.0	<0.001	<1	3.48	<0.001	0.03	0.2	18.9	<0.02	<0.02	31	<0.1	<0.02	7.5	4.63	<0.1	<0.02
1299408	Soil		6.5	189.3	1.57	121.5	0.010	4	1.74	<0.001	0.06	0.3	11.5	0.08	0.02	29	0.2	<0.02	3.5	8.20	<0.1	<0.02
1299409	Soil		5.5	920.3	4.73	89.2	0.011	8	0.72	0.005	0.04	0.3	6.4	0.11	0.02	46	0.2	<0.02	1.7	11.62	<0.1	<0.02
1299410	Soil		8.6	901.1	4.18	108.2	0.009	13	0.73	0.004	0.09	0.2	3.7	0.09	0.06	27	0.2	<0.02	1.9	1.25	<0.1	0.05
1299411	Soil		12.2	423.6	2.90	138.4	0.015	5	0.83	0.007	0.08	0.2	3.5	0.10	0.03	23	0.1	<0.02	2.3	1.22	<0.1	0.05
1299412	Soil		7.4	454.5	3.12	139.6	0.007	11	0.67	0.005	0.08	0.3	2.5	0.09	0.12	45	0.3	<0.02	1.9	0.75	<0.1	0.04
1299413	Soil		4.0	484.7	3.45	113.0	0.007	12	0.60	0.013	0.07	0.3	1.9	0.08	0.10	29	0.2	<0.02	1.6	0.75	<0.1	0.05
1299414	Soil		5.3	744.5	5.76	113.8	0.010	14	0.64	0.006	0.04	0.4	3.2	0.05	0.10	31	0.2	<0.02	1.6	0.54	<0.1	0.04
1299415	Soil		6.6	758.9	5.39	181.1	0.008	11	0.76	0.005	0.07	0.6	3.2	0.08	0.13	41	0.2	<0.02	1.9	0.79	<0.1	0.06
1299416	Soil		10.7	242.7	1.85	89.1	0.008	5	0.87	0.003	0.14	0.4	1.6	0.08	0.05	21	0.1	0.04	3.2	1.80	<0.1	<0.02
1299417	Soil		9.0	591.3	4.63	144.3	0.011	9	0.82	0.005	0.08	0.3	3.4	0.05	0.06	30	0.2	0.04	2.2	1.02	<0.1	0.06
1299418	Soil		11.3	346.3	2.86	126.0	0.022	6	0.80	0.006	0.08	0.3	2.6	0.09	0.04	25	0.1	0.04	2.6	0.98	<0.1	<0.02
1299419	Soil		12.0	273.7	2.14	153.3	0.016	4	0.79	0.005	0.06	0.3	2.8	0.08	0.02	22	0.1	<0.02	2.1	0.78	<0.1	0.05
1299420	Soil		9.6	446.8	2.58	309.7	0.007	12	0.74	0.005	0.05	0.3	3.3	0.11	0.20	70	0.4	<0.02	1.9	0.88	<0.1	0.07
1299421	Soil		9.9	345.5	2.86	140.3	0.013	6	0.74	0.006	0.07	0.2	2.7	0.08	0.05	27	<0.1	<0.02	1.8	0.92	<0.1	0.06
1299422	Soil		10.2	400.6	3.70	142.0	0.021	8	0.72	0.007	0.06	0.4	2.8	0.07	0.03	29	0.1	<0.02	1.9	0.73	<0.1	<0.02
1299423	Soil		7.3	497.1	3.83	140.4	0.013	8	0.75	0.007	0.07	0.5	2.8	0.07	0.07	30	0.2	<0.02	2.0	0.76	<0.1	0.05
1299424	Soil		9.2	356.4	2.88	97.3	0.024	6	0.77	0.008	0.05	0.6	2.7	0.06	0.03	17	<0.1	0.03	2.1	0.74	<0.1	0.03
1299425	Soil		6.9	729.4	5.98	71.3	0.011	9	0.67	0.004	0.06	0.5	4.1	0.05	0.03	13	0.1	<0.02	1.7	0.71	<0.1	0.05

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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1299096	Soil			0.25	12.1	0.5	<0.05	0.6	8.52	43.8	0.02	1	0.6	20.1	<10	<2
1299097	Soil			0.35	9.4	0.5	<0.05	1.1	5.60	24.3	<0.02	<1	0.2	10.8	<10	<2
1299098	Soil			0.39	5.5	0.3	<0.05	1.0	4.81	20.9	<0.02	<1	0.1	8.4	<10	<2
1299099	Soil			0.36	4.9	0.4	<0.05	1.0	5.22	23.1	<0.02	<1	0.3	8.7	<10	<2
1299100	Soil			0.32	5.5	0.3	<0.05	1.2	5.45	16.3	<0.02	1	0.2	7.3	12	<2
1299401	Soil			0.90	6.2	0.3	<0.05	2.7	11.81	67.9	<0.02	<1	0.4	2.6	<10	<2
1299402	Soil			0.44	7.0	0.3	<0.05	2.4	7.82	29.2	0.02	<1	0.3	6.1	<10	<2
1299403	Soil			0.89	7.2	0.4	<0.05	3.3	13.19	65.7	<0.02	1	0.3	6.4	<10	<2
1299404	Soil			0.05	12.2	0.4	<0.05	0.6	21.01	21.0	0.03	2	0.6	13.4	<10	<2
1299405	Soil			0.05	7.3	1.4	<0.05	1.7	18.39	24.0	0.04	<1	0.8	7.2	11	<2
1299406	Soil			0.25	6.8	0.8	<0.05	1.4	11.21	13.3	0.03	<1	1.2	12.5	<10	<2
1299407	Soil			0.02	3.8	0.8	<0.05	0.7	9.67	28.0	0.03	1	0.9	61.2	<10	<2
1299408	Soil			0.45	8.4	0.6	<0.05	0.5	8.18	14.0	0.03	2	0.6	26.8	<10	<2
1299409	Soil			0.11	6.0	0.3	<0.05	0.5	4.02	11.1	<0.02	3	0.3	11.9	<10	4
1299410	Soil			0.33	14.5	0.3	<0.05	1.6	3.29	20.7	<0.02	<1	0.3	8.3	<10	<2
1299411	Soil			0.42	10.6	0.5	<0.05	1.6	4.72	26.7	<0.02	<1	0.2	9.9	<10	<2
1299412	Soil			0.46	9.6	0.6	<0.05	1.6	5.14	14.2	<0.02	<1	0.3	7.4	<10	2
1299413	Soil			0.29	8.6	0.7	<0.05	1.3	4.54	7.9	<0.02	1	0.2	6.2	<10	<2
1299414	Soil			0.31	5.1	0.3	<0.05	1.3	3.52	10.8	<0.02	<1	0.2	5.9	<10	<2
1299415	Soil			0.38	8.5	0.5	<0.05	2.1	6.99	11.3	<0.02	<1	0.3	6.5	<10	<2
1299416	Soil			0.25	12.5	0.8	<0.05	0.4	6.09	30.5	0.02	<1	0.4	13.6	<10	<2
1299417	Soil			0.39	9.8	0.4	<0.05	2.0	7.75	17.4	<0.02	<1	0.3	8.4	<10	<2
1299418	Soil			0.57	9.5	0.7	<0.05	0.8	4.39	23.6	<0.02	<1	0.3	10.8	<10	<2
1299419	Soil			0.46	7.9	0.5	<0.05	1.4	6.24	25.3	<0.02	<1	0.3	10.3	<10	2
1299420	Soil			0.55	6.1	0.6	<0.05	2.3	11.41	18.9	<0.02	<1	0.4	8.6	<10	2
1299421	Soil			0.48	8.7	0.6	<0.05	1.7	5.58	21.1	<0.02	<1	0.2	8.9	<10	<2
1299422	Soil			0.52	6.8	0.3	<0.05	1.3	4.44	21.4	<0.02	<1	0.2	8.1	<10	2
1299423	Soil			0.45	8.7	0.7	<0.05	1.6	4.28	15.8	<0.02	<1	0.2	7.8	<10	<2
1299424	Soil			0.52	7.5	0.5	<0.05	1.0	3.28	18.9	<0.02	<1	0.2	9.1	<10	<2
1299425	Soil			0.20	6.3	0.2	<0.05	1.2	3.30	14.1	<0.02	<1	0.2	6.8	<10	<2



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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		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	ppm	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
1299426	Soil	0.40	14.56	5.76	32.1	96	747.3	29.9	347	2.55	21.0	0.6	1.9	1.5	8.5	0.09	1.14	0.10	28	0.24	0.061
1299427	Soil	0.97	14.88	13.43	49.3	60	439.1	26.2	466	3.08	49.6	1.1	0.8	3.6	7.9	0.22	0.99	0.26	28	0.13	0.069
1299428	Soil	0.64	14.97	10.13	40.7	120	535.5	25.2	429	2.52	48.6	0.8	1.0	1.8	15.5	0.20	4.36	0.20	27	0.26	0.092
1299429	Soil	0.67	23.10	12.32	43.1	484	985.0	61.6	1224	4.10	300.1	0.8	7.6	0.8	24.5	0.38	7.05	0.17	27	0.55	0.143
1299430	Soil	0.24	50.03	4.24	56.9	639	197.1	27.6	564	3.89	178.7	0.2	22.7	1.1	15.1	0.17	7.33	0.04	69	0.45	0.073
1299431	Soil	1.36	41.61	15.86	60.2	1176	286.2	22.4	639	3.63	169.9	0.8	10.1	2.1	10.2	0.22	11.63	0.15	36	0.15	0.067
1299432	Soil	0.92	66.24	6.94	72.6	584	188.7	27.4	959	4.88	159.6	0.5	13.8	2.0	17.0	0.12	7.78	0.10	78	0.30	0.055
1299433	Soil	2.64	48.04	38.65	166.2	1459	75.8	11.6	654	2.93	786.1	0.7	151.8	4.3	22.4	0.98	13.26	0.28	19	0.24	0.059
1299434	Soil	0.79	50.52	14.12	69.3	718	86.5	15.9	635	3.32	357.7	0.8	50.9	4.7	20.2	0.22	7.72	0.17	38	0.40	0.066
1299451	Soil	0.20	8.68	7.14	35.7	81	491.0	21.3	216	1.97	12.8	0.6	2.5	2.5	8.0	0.14	0.60	0.12	28	0.11	0.044
1299452	Soil	0.04	13.89	7.57	49.5	48	330.4	16.3	141	1.31	2.9	0.6	1.6	4.0	9.1	0.21	0.88	0.12	25	0.14	0.024
1299453	Soil	0.19	20.16	5.63	49.4	218	737.3	26.5	530	2.07	26.2	0.3	6.1	1.1	21.3	0.17	3.08	0.11	22	0.57	0.075
1299454	Soil	2.01	46.90	17.84	108.6	638	84.3	16.2	496	3.61	186.0	1.3	20.5	8.2	16.2	0.53	4.05	0.19	18	0.24	0.104
1299455	Soil	2.31	56.42	21.84	114.9	731	85.7	19.2	676	3.87	217.4	1.6	21.8	9.6	16.7	0.77	4.46	0.22	19	0.22	0.114
1299456	Soil	2.24	72.92	16.97	122.8	818	94.9	22.2	643	4.41	255.2	1.6	33.5	8.1	16.6	0.75	4.61	0.22	26	0.22	0.124
1299457	Soil	2.05	68.87	20.51	112.9	914	94.4	20.5	672	4.10	350.4	1.7	35.1	10.5	20.3	0.61	6.39	0.24	19	0.23	0.116
1299458	Soil	2.25	61.88	19.07	78.6	1003	83.3	17.0	675	3.06	477.3	1.2	50.3	9.7	20.2	0.40	6.65	0.24	14	0.21	0.084
1299459	Soil	1.07	30.64	25.62	58.1	271	106.2	10.9	396	2.09	71.2	1.2	4.4	14.5	20.8	0.29	3.60	0.24	14	0.26	0.075
1299460	Soil	0.62	20.21	6.21	46.1	178	931.8	36.8	311	3.05	24.5	0.8	7.3	3.0	10.9	0.25	1.96	0.13	31	0.16	0.040
1299461	Soil	0.54	13.01	11.53	44.0	66	312.1	21.4	345	2.01	31.0	0.9	8.3	2.7	12.6	0.22	0.77	0.22	24	0.20	0.057
1299462	Soil	0.34	15.26	10.04	46.2	54	472.5	23.4	230	2.22	18.0	0.8	2.9	3.6	12.6	0.21	0.72	0.20	27	0.16	0.046
1299463	Soil	0.86	14.12	7.59	48.4	34	503.2	32.3	433	2.81	19.4	0.7	1.8	1.5	8.9	0.21	0.68	0.15	31	0.15	0.059
1299464	Soil	0.91	12.24	18.92	56.2	62	361.1	36.5	590	3.29	45.7	1.0	1.6	3.1	7.6	0.21	0.34	0.32	20	0.11	0.094
1299465	Soil	0.88	16.61	7.03	51.7	46	585.3	27.4	356	2.64	10.6	0.6	6.3	2.4	9.3	0.15	0.68	0.14	31	0.14	0.036
1299466	Soil	0.67	15.77	7.23	45.5	76	1005	41.9	524	3.05	20.0	0.7	1.4	2.0	9.3	0.19	0.90	0.13	25	0.32	0.070
1299467	Soil	0.75	15.26	9.01	45.3	66	636.8	33.5	427	2.98	37.4	0.9	0.9	2.2	9.0	0.19	1.09	0.18	28	0.20	0.071
1299468	Soil	0.74	18.09	9.08	51.4	149	759.7	24.9	313	2.84	68.2	0.6	1.7	2.1	13.1	0.18	7.57	0.17	30	0.19	0.058
1299469	Soil	0.89	18.47	8.59	62.1	107	1071	61.8	765	4.28	51.4	0.7	4.2	2.0	15.5	0.26	6.10	0.15	39	0.24	0.052
1299470	Soil	0.39	62.43	5.14	68.6	186	193.4	29.1	580	3.74	60.5	0.3	4.1	1.4	12.3	0.18	12.34	0.03	86	0.39	0.076
1299471	Soil	0.48	67.40	28.22	86.2	2619	191.3	26.2	777	4.90	426.5	0.5	72.5	1.2	24.5	0.24	13.17	0.11	74	0.70	0.069



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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	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
1299426	Soil	7.5	689.8	5.87	98.3	0.011	9	0.72	0.007	0.04	0.5	3.6	0.06	0.06	18	0.2	<0.02	1.7	0.84	<0.1	0.04
1299427	Soil	10.7	671.8	4.16	112.3	0.011	9	0.91	0.005	0.11	0.3	5.3	0.11	0.04	24	0.2	0.02	2.4	1.65	<0.1	0.08
1299428	Soil	9.5	590.3	3.66	174.2	0.011	12	0.83	0.006	0.08	0.2	3.7	0.10	0.08	35	0.3	<0.02	2.1	1.26	<0.1	0.05
1299429	Soil	5.8	769.0	3.38	222.5	0.006	14	0.59	0.006	0.08	0.5	3.7	0.11	0.15	80	0.3	0.04	1.5	7.84	<0.1	0.02
1299430	Soil	5.8	227.9	1.73	93.8	0.020	2	1.76	<0.001	0.05	0.3	11.7	0.08	0.04	36	0.1	<0.02	3.6	8.25	<0.1	<0.02
1299431	Soil	9.5	313.2	1.78	194.2	0.008	5	0.83	0.004	0.07	0.4	5.4	0.08	0.04	42	0.2	0.03	2.1	2.52	<0.1	0.03
1299432	Soil	11.3	154.5	1.45	152.4	0.004	2	1.61	<0.001	0.06	0.3	12.9	0.07	<0.02	36	0.3	0.02	3.9	11.14	<0.1	0.05
1299433	Soil	18.6	57.2	0.53	262.8	0.002	2	0.56	0.004	0.06	0.5	3.2	0.16	0.05	96	0.4	0.04	1.5	3.44	<0.1	0.07
1299434	Soil	10.2	87.2	1.10	170.8	0.004	2	0.94	0.005	0.06	0.2	5.1	0.04	0.03	37	0.4	<0.02	2.4	3.55	<0.1	0.09
1299451	Soil	9.4	562.9	4.61	95.5	0.015	7	0.83	0.006	0.05	0.4	3.6	0.06	0.02	24	0.2	0.02	2.3	0.66	<0.1	0.04
1299452	Soil	11.2	549.5	3.32	108.0	0.029	6	0.86	0.005	0.04	0.2	3.9	0.06	<0.02	22	<0.1	<0.02	2.5	0.71	<0.1	0.02
1299453	Soil	7.1	524.7	3.86	144.2	0.014	23	0.71	0.007	0.04	0.4	3.5	0.06	0.10	47	0.4	<0.02	2.0	0.79	<0.1	0.02
1299454	Soil	23.6	67.1	0.53	98.7	0.002	<1	0.67	0.001	0.04	0.4	2.9	0.04	<0.02	17	0.5	0.03	1.7	1.32	<0.1	0.03
1299455	Soil	26.5	60.4	0.49	108.8	0.003	<1	0.69	0.002	0.05	0.3	2.8	0.05	<0.02	25	0.4	0.04	1.6	1.78	<0.1	0.03
1299456	Soil	24.3	64.6	0.66	117.5	0.003	1	0.92	0.002	0.05	0.4	3.2	0.05	<0.02	29	0.6	0.05	2.3	1.75	<0.1	0.05
1299457	Soil	23.7	65.2	0.57	127.1	0.003	<1	0.60	0.002	0.06	1.7	3.3	0.05	<0.02	23	0.8	0.04	1.4	1.97	<0.1	0.07
1299458	Soil	18.1	55.5	0.46	153.7	0.004	1	0.46	0.002	0.08	0.5	2.6	0.05	<0.02	21	0.8	0.07	1.2	1.85	<0.1	0.08
1299459	Soil	27.6	95.7	0.83	118.1	0.005	2	0.45	0.005	0.09	0.3	2.0	0.05	<0.02	22	0.3	0.02	1.2	1.45	<0.1	0.05
1299460	Soil	8.7	692.7	8.05	85.6	0.018	15	0.78	0.007	0.04	0.5	4.6	0.05	0.02	33	0.2	0.03	2.0	0.73	<0.1	0.05
1299461	Soil	12.1	284.6	2.31	157.6	0.015	4	0.86	0.006	0.07	0.4	2.8	0.09	0.04	15	0.2	0.03	2.2	1.07	<0.1	0.05
1299462	Soil	11.7	433.2	3.61	143.1	0.019	7	0.83	0.006	0.07	0.5	4.2	0.07	0.02	12	0.3	0.03	2.1	0.86	<0.1	0.05
1299463	Soil	8.2	498.9	4.29	108.0	0.015	7	0.79	0.006	0.04	0.7	3.2	0.05	0.04	12	0.3	<0.02	2.1	0.56	<0.1	0.04
1299464	Soil	10.1	419.4	3.38	123.2	0.008	6	0.73	0.004	0.12	0.7	3.0	0.08	0.06	13	0.2	<0.02	1.8	1.71	<0.1	0.09
1299465	Soil	10.5	482.0	4.52	98.4	0.023	6	0.78	0.008	0.04	0.5	4.1	0.05	0.02	14	0.3	<0.02	2.0	0.59	<0.1	0.03
1299466	Soil	7.0	749.6	7.19	114.4	0.010	12	0.70	0.006	0.06	0.6	5.0	0.05	0.06	29	0.4	<0.02	1.7	1.15	<0.1	0.07
1299467	Soil	8.7	713.0	4.98	104.6	0.012	10	0.77	0.007	0.07	0.3	4.7	0.07	0.06	17	0.4	<0.02	2.1	1.14	<0.1	0.06
1299468	Soil	11.4	589.4	4.16	131.0	0.016	14	0.88	0.008	0.06	0.3	4.5	0.08	0.04	31	0.6	0.05	2.3	1.97	<0.1	0.05
1299469	Soil	10.8	654.4	2.59	143.4	0.023	7	0.91	0.007	0.06	0.5	5.8	0.10	0.04	55	0.3	<0.02	2.8	5.37	<0.1	0.04
1299470	Soil	7.7	187.2	1.48	124.9	0.036	3	1.65	<0.001	0.05	0.4	13.4	0.07	0.03	28	0.4	<0.02	3.7	4.86	<0.1	0.02
1299471	Soil	8.5	158.4	1.70	214.1	0.002	3	1.85	0.001	0.07	0.3	12.6	0.06	0.06	42	0.4	<0.02	3.9	7.04	0.1	0.04



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 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1299426	Soil	0.33	6.3	0.3	<0.05	1.3	4.18	13.8	<0.02	<1	0.2	7.7	<10	5
1299427	Soil	0.37	14.5	1.2	<0.05	2.2	3.79	23.8	<0.02	<1	0.3	10.7	<10	4
1299428	Soil	0.47	10.7	0.4	<0.05	1.6	6.30	19.4	<0.02	<1	0.4	9.9	<10	<2
1299429	Soil	0.30	7.5	0.7	<0.05	0.8	6.22	13.5	<0.02	<1	0.6	9.7	<10	3
1299430	Soil	0.78	7.1	0.3	<0.05	0.5	8.60	13.2	0.02	<1	0.5	28.8	<10	<2
1299431	Soil	0.26	8.6	0.4	<0.05	1.2	6.50	20.2	0.02	1	0.5	10.0	<10	<2
1299432	Soil	0.17	7.3	0.5	<0.05	1.0	13.06	22.2	0.03	1	0.6	16.6	<10	<2
1299433	Soil	0.36	5.8	1.3	<0.05	3.5	10.49	40.9	0.02	<1	0.4	5.7	<10	<2
1299434	Soil	0.24	5.9	0.6	<0.05	3.1	9.78	22.0	0.03	<1	0.5	10.8	<10	2
1299451	Soil	0.35	6.6	0.5	<0.05	1.0	3.45	19.3	<0.02	<1	0.2	10.2	<10	<2
1299452	Soil	0.57	5.9	0.5	<0.05	1.4	3.80	24.1	<0.02	<1	0.3	10.3	<10	2
1299453	Soil	0.54	7.3	0.9	<0.05	0.8	4.58	12.4	<0.02	<1	0.2	8.0	<10	4
1299454	Soil	0.27	3.6	0.3	<0.05	2.3	9.23	49.3	0.02	<1	0.3	9.7	<10	<2
1299455	Soil	0.29	4.2	0.4	<0.05	2.3	12.81	53.6	0.03	<1	0.2	9.4	<10	<2
1299456	Soil	0.11	3.6	0.2	<0.05	4.1	12.35	49.5	0.03	<1	0.2	12.3	<10	<2
1299457	Soil	0.43	4.2	0.3	<0.05	5.5	12.70	48.6	0.02	<1	0.2	7.6	12	2
1299458	Soil	0.41	4.5	0.3	<0.05	5.1	10.59	38.3	0.02	2	0.3	5.6	<10	<2
1299459	Soil	0.78	5.5	0.7	<0.05	3.0	12.66	57.1	<0.02	<1	0.2	5.4	<10	<2
1299460	Soil	0.20	5.4	0.4	<0.05	1.3	4.52	16.2	0.03	<1	<0.1	9.4	<10	<2
1299461	Soil	0.49	9.8	0.7	<0.05	1.7	5.42	24.9	<0.02	<1	0.3	9.6	<10	<2
1299462	Soil	0.44	8.3	0.5	<0.05	1.8	5.33	23.5	<0.02	2	0.3	8.8	<10	3
1299463	Soil	0.29	5.8	0.3	<0.05	1.0	3.19	15.4	<0.02	1	0.2	7.2	<10	<2
1299464	Soil	0.32	13.4	0.5	<0.05	2.2	5.70	20.5	0.02	<1	0.1	6.8	<10	<2
1299465	Soil	0.32	5.4	0.4	<0.05	1.1	4.55	18.8	<0.02	<1	0.3	7.2	<10	2
1299466	Soil	0.32	8.3	0.3	<0.05	1.7	4.07	11.7	<0.02	1	0.2	5.8	<10	2
1299467	Soil	0.41	8.5	0.4	<0.05	1.8	3.93	16.2	<0.02	<1	0.2	6.7	<10	3
1299468	Soil	0.39	8.8	0.6	<0.05	1.6	6.77	18.7	<0.02	<1	0.3	9.6	<10	3
1299469	Soil	0.50	9.1	0.5	<0.05	1.2	5.16	20.3	<0.02	<1	0.8	12.6	<10	2
1299470	Soil	1.03	6.7	0.4	<0.05	0.7	10.35	15.5	0.03	<1	0.7	22.5	<10	<2
1299471	Soil	0.15	8.2	0.5	<0.05	1.2	15.32	14.4	0.04	<1	0.6	23.4	<10	2



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Project: Rivier  
 Report Date: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				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
1299472	Soil			0.89	69.28	135.2	118.9	8713	201.8	31.5	1743	4.12	1831	1.0	207.9	2.8	11.3	0.74	33.36	0.21	29	0.11	0.037
1299473	Soil			1.27	109.8	14.96	106.8	1461	140.4	34.5	2817	5.90	307.0	0.8	23.5	2.1	21.2	0.27	17.98	0.21	38	0.39	0.072
1299474	Soil			0.85	85.31	14.60	98.9	1509	78.9	32.8	1512	6.01	2007	0.7	460.4	3.3	18.5	0.32	11.42	0.12	106	0.29	0.066
1299475	Soil			1.02	68.55	15.93	83.4	1124	117.6	17.6	636	3.52	269.5	1.1	27.7	3.8	19.0	0.27	9.39	0.19	40	0.38	0.084
1299476	Soil			1.84	67.02	32.15	324.4	974	66.2	17.6	1077	3.70	1384	1.5	149.2	9.6	40.4	1.45	11.06	0.33	11	0.25	0.091
1299477	Soil			1.41	52.96	22.01	102.3	1492	123.8	16.5	472	3.06	514.2	1.2	57.2	6.7	22.0	0.43	9.75	0.27	21	0.27	0.085
1299478	Soil			2.14	76.38	22.71	117.6	1125	97.0	18.6	673	3.19	786.0	1.4	85.8	7.9	20.7	0.46	11.18	0.33	17	0.21	0.088
1299479	Soil			1.99	53.08	22.07	97.2	607	78.4	16.6	775	2.99	357.6	1.1	31.8	9.4	16.8	0.39	5.77	0.27	16	0.20	0.088
1299480	Soil			1.96	42.10	32.84	107.8	774	77.6	19.9	676	3.41	561.2	1.5	62.2	13.7	20.6	0.60	8.60	0.32	17	0.18	0.088
1299481	Soil			1.09	49.91	24.06	71.2	778	62.1	13.7	885	2.50	462.8	1.2	79.4	12.0	25.4	0.31	6.03	0.30	14	0.16	0.059
1299482	Soil			1.42	77.54	18.95	89.8	730	65.5	18.9	832	2.77	467.6	1.0	52.0	9.3	32.5	0.30	6.11	0.26	11	0.40	0.072
1299483	Soil			0.76	38.17	22.58	69.0	917	37.7	10.0	373	2.40	664.4	1.1	90.8	7.2	26.2	0.24	5.33	0.24	20	0.32	0.069
1299501	Soil			0.72	18.38	8.21	64.5	89	1091	61.1	897	4.93	65.6	0.6	2.4	1.9	11.3	0.40	8.52	0.13	43	0.16	0.049
1299502	Soil			0.80	22.32	8.14	65.5	194	1168	59.7	882	5.09	85.3	0.7	5.6	2.2	10.8	0.44	12.42	0.13	42	0.17	0.039
1299503	Soil			0.92	19.00	7.91	56.0	136	898.1	56.6	967	4.58	115.1	0.7	1.9	1.7	11.9	0.38	17.88	0.14	43	0.21	0.047
1299504	Soil			1.03	19.15	7.71	65.3	207	1516	55.3	639	4.67	365.0	0.9	12.7	2.8	10.4	0.32	53.48	0.12	42	0.15	0.026
1299505	Soil			2.99	110.5	11.09	93.1	9298	628.4	53.2	2766	11.47	>10000	0.6	2625	2.3	138.0	0.38	85.57	0.27	23	0.72	0.078
1299506	Soil			1.25	22.03	9.07	65.6	182	1394	49.3	561	3.67	368.6	0.8	28.0	6.6	101.9	0.20	43.45	0.14	23	1.20	0.024
1299507	Soil			0.26	23.30	3.39	39.1	104	2181	112.2	867	5.00	94.0	0.2	8.0	0.7	62.2	0.16	16.20	0.03	37	1.07	0.025
1299508	Soil			0.74	82.81	81.88	370.3	3766	569.1	54.2	808	4.84	2076	0.4	388.8	5.4	77.1	1.44	40.69	0.50	30	1.49	0.067
1299509	Soil			18.31	106.5	35.84	210.5	556	88.1	6.4	97	2.55	138.9	4.9	8.5	5.7	50.8	1.05	3.34	0.44	28	0.14	0.282
1299510	Soil			1.08	38.81	16.18	93.9	513	84.0	20.6	1146	3.85	367.3	0.7	47.0	10.5	35.1	0.34	4.24	0.20	14	0.47	0.122
1299511	Soil			1.54	51.72	14.89	125.2	460	249.3	36.8	2999	7.63	341.9	1.0	20.9	5.0	33.8	0.75	5.27	0.16	23	0.60	0.134
1299512	Soil			2.24	61.08	321.7	114.5	2508	121.1	27.7	1199	3.80	1005	1.2	76.8	21.1	25.5	0.57	14.51	3.57	10	0.27	0.086
1299513	Soil			1.37	47.91	30.40	110.4	682	154.4	19.1	867	3.61	521.6	1.0	56.9	11.0	22.4	0.38	8.29	0.35	17	0.29	0.091
1299514	Soil			0.84	42.40	11.07	64.5	174	274.3	23.7	830	3.90	317.8	0.6	6.1	1.1	14.9	0.12	5.79	0.18	39	0.35	0.128
1299515	Soil			0.54	67.51	5.45	80.6	361	378.0	49.8	905	4.68	202.3	0.3	29.5	1.6	35.5	0.23	7.93	0.06	75	1.61	0.087
1299516	Soil			0.87	21.23	10.24	64.0	342	1165	48.7	662	3.74	68.3	0.7	4.9	1.9	14.4	0.34	5.26	0.14	34	0.16	0.042
1299517	Soil			0.71	19.32	9.97	67.8	240	1457	58.1	802	4.64	104.0	0.6	4.2	1.6	13.4	0.37	5.56	0.14	36	0.14	0.049
1299518	Soil			0.60	23.35	10.46	57.6	500	1313	62.8	596	4.14	83.9	0.4	7.4	2.4	26.2	0.27	20.69	0.12	76	0.60	0.041



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Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	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	
1299472	Soil	13.2	174.8	1.28	202.3	0.007	2	0.79	0.002	0.06	0.4	5.7	0.07	<0.02	63	<0.1	0.07	2.2	3.26	<0.1	<0.02
1299473	Soil	15.6	85.5	0.53	363.7	0.002	3	0.66	0.002	0.07	0.6	14.1	0.11	0.04	101	0.1	0.09	1.6	8.38	<0.1	0.04
1299474	Soil	10.4	70.3	1.55	169.1	0.003	2	1.75	<0.001	0.06	0.3	17.5	0.06	0.02	39	0.3	0.03	5.5	3.88	<0.1	0.06
1299475	Soil	12.7	121.7	0.98	209.5	0.005	2	0.89	0.002	0.07	0.3	6.3	0.06	0.04	35	0.5	<0.02	2.6	2.26	<0.1	0.09
1299476	Soil	27.6	55.2	0.38	276.3	0.004	1	0.33	0.002	0.12	0.3	3.0	0.10	0.07	56	0.1	0.03	0.7	2.25	<0.1	0.04
1299477	Soil	18.2	118.8	0.90	199.7	0.004	2	0.62	0.002	0.08	0.3	3.3	0.04	<0.02	19	0.5	0.07	1.4	2.23	<0.1	0.10
1299478	Soil	20.7	72.5	0.58	193.7	0.005	1	0.58	0.002	0.07	0.2	2.9	0.07	<0.02	25	0.3	0.06	1.4	2.58	<0.1	0.06
1299479	Soil	24.8	48.4	0.35	189.8	0.003	1	0.48	0.002	0.07	0.2	2.8	0.07	<0.02	20	0.2	<0.02	1.3	2.51	<0.1	0.05
1299480	Soil	31.0	49.0	0.28	240.6	0.002	1	0.42	0.002	0.11	0.5	3.9	0.09	<0.02	27	0.2	<0.02	1.0	3.03	<0.1	0.07
1299481	Soil	30.2	39.5	0.32	219.7	0.002	2	0.44	0.002	0.10	0.3	3.4	0.08	<0.02	10	0.1	<0.02	1.1	2.92	<0.1	0.06
1299482	Soil	23.0	33.4	0.33	171.0	0.002	1	0.30	0.002	0.08	0.3	2.8	0.07	0.07	11	0.4	0.07	0.8	3.11	<0.1	0.05
1299483	Soil	17.4	28.6	0.30	185.5	0.010	3	0.60	0.016	0.12	0.2	2.2	0.05	0.02	12	0.1	<0.02	1.5	2.75	<0.1	0.07
1299501	Soil	9.5	666.5	3.23	137.7	0.014	6	1.05	0.005	0.04	0.9	7.8	0.11	0.04	59	0.2	<0.02	2.5	2.22	<0.1	0.02
1299502	Soil	10.2	613.2	2.72	111.7	0.021	8	0.98	0.006	0.04	0.9	8.3	0.13	0.03	80	0.1	<0.02	2.6	1.49	<0.1	<0.02
1299503	Soil	10.3	420.1	2.30	147.6	0.018	6	0.98	0.006	0.04	0.6	8.4	0.13	0.04	57	0.3	<0.02	2.4	1.27	<0.1	<0.02
1299504	Soil	12.2	536.1	3.64	88.2	0.021	6	0.92	0.005	0.04	0.7	7.3	0.32	<0.02	52	0.4	<0.02	2.5	3.02	<0.1	0.02
1299505	Soil	8.2	83.3	0.76	885.6	0.001	6	0.58	0.002	0.09	0.9	14.7	0.36	0.03	63	0.6	0.30	1.3	21.77	<0.1	0.04
1299506	Soil	12.5	289.5	8.97	152.6	0.002	5	0.39	0.003	0.05	1.3	4.4	0.23	<0.02	63	0.2	<0.02	1.1	5.71	<0.1	0.03
1299507	Soil	2.0	1490	11.92	63.0	0.004	11	1.01	0.002	0.02	0.8	10.6	0.09	<0.02	33	0.2	<0.02	1.5	5.31	<0.1	<0.02
1299508	Soil	11.5	267.9	3.45	203.3	0.002	5	0.58	0.002	0.07	1.4	12.0	0.08	<0.02	110	0.3	<0.02	1.2	4.25	<0.1	0.04
1299509	Soil	15.9	33.1	0.31	248.8	0.008	2	0.91	0.004	0.08	0.4	1.9	0.16	0.09	153	5.3	0.04	1.5	4.66	<0.1	<0.02
1299510	Soil	29.4	56.7	0.23	172.9	0.001	4	0.54	0.003	0.09	0.4	5.3	0.09	<0.02	17	<0.1	<0.02	1.0	4.79	<0.1	0.14
1299511	Soil	11.1	141.9	0.86	252.1	0.002	4	0.63	0.006	0.06	0.4	8.4	0.08	0.04	16	0.7	0.03	1.6	4.05	<0.1	0.08
1299512	Soil	25.1	74.9	0.61	173.8	0.002	2	0.43	0.002	0.09	0.3	4.4	0.15	0.03	19	0.6	0.27	0.9	3.72	<0.1	0.04
1299513	Soil	14.1	132.7	1.10	125.2	0.003	4	0.58	0.003	0.08	0.2	4.0	0.06	0.08	21	0.6	0.05	1.3	4.64	<0.1	0.06
1299514	Soil	7.9	327.6	1.38	360.4	0.004	3	0.89	0.004	0.04	0.6	4.8	0.06	0.07	36	0.3	0.07	2.4	3.11	<0.1	0.03
1299515	Soil	10.9	230.5	3.16	265.3	0.005	3	1.49	0.003	0.16	0.6	13.0	0.11	<0.02	27	0.2	<0.02	3.6	20.46	<0.1	0.02
1299516	Soil	10.7	379.5	3.81	111.5	0.020	6	0.80	0.007	0.04	0.9	4.2	0.09	0.03	45	0.3	0.02	2.4	1.44	<0.1	0.03
1299517	Soil	9.7	575.1	4.13	128.2	0.016	5	0.86	0.005	0.04	0.8	6.5	0.09	0.03	44	0.2	0.04	2.5	2.96	<0.1	0.02
1299518	Soil	7.8	758.7	4.35	100.8	0.006	6	1.29	0.004	0.06	0.8	12.0	0.13	<0.02	62	0.3	0.03	2.3	12.61	<0.1	0.04



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Project: Rivier  
 Report Date: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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	
1299472	Soil	0.14	7.1	0.6	<0.05	1.1	7.20	27.5	0.03	1	0.6	9.2	<10	<2
1299473	Soil	0.11	10.3	0.5	<0.05	1.2	20.88	30.4	0.04	<1	0.8	5.6	<10	<2
1299474	Soil	0.17	5.7	0.5	<0.05	2.5	19.16	20.4	0.06	<1	0.4	18.0	<10	<2
1299475	Soil	0.38	7.1	0.8	<0.05	3.0	12.32	22.7	0.03	<1	0.4	8.8	<10	<2
1299476	Soil	0.60	7.2	0.5	<0.05	2.7	12.60	51.2	0.03	<1	0.4	4.0	<10	<2
1299477	Soil	0.30	7.0	1.5	<0.05	3.0	10.83	33.4	<0.02	<1	0.2	6.9	<10	<2
1299478	Soil	0.21	6.5	0.4	<0.05	3.4	10.11	38.2	0.02	<1	0.2	6.5	<10	3
1299479	Soil	0.40	6.4	0.4	<0.05	2.9	11.72	46.3	<0.02	<1	0.4	4.7	<10	<2
1299480	Soil	0.41	6.9	0.7	<0.05	3.7	13.49	58.3	<0.02	<1	0.5	3.8	<10	<2
1299481	Soil	0.34	6.5	0.4	<0.05	2.8	11.96	57.9	0.03	2	0.4	4.3	<10	<2
1299482	Soil	0.18	5.1	0.8	<0.05	3.7	9.49	44.6	<0.02	<1	0.3	3.2	<10	<2
1299483	Soil	0.43	8.2	0.5	<0.05	2.9	9.43	33.2	<0.02	<1	0.3	6.7	<10	<2
1299501	Soil	0.41	6.9	0.5	<0.05	0.7	4.01	18.1	<0.02	<1	0.8	13.0	<10	3
1299502	Soil	0.50	5.3	0.4	<0.05	0.7	4.58	19.3	<0.02	<1	0.8	10.3	<10	4
1299503	Soil	0.50	5.3	0.4	<0.05	0.6	4.32	20.3	<0.02	<1	0.8	8.9	<10	<2
1299504	Soil	0.23	5.1	0.4	<0.05	0.9	4.94	22.3	<0.02	<1	0.6	12.0	<10	3
1299505	Soil	0.04	8.8	0.6	<0.05	1.6	12.68	17.8	0.05	1	1.4	4.8	21	7
1299506	Soil	0.06	4.7	0.4	<0.05	1.8	3.38	22.9	<0.02	<1	1.1	5.8	<10	4
1299507	Soil	0.03	3.6	0.6	<0.05	0.6	1.66	3.8	<0.02	1	0.8	21.0	<10	9
1299508	Soil	0.12	6.7	0.4	<0.05	1.4	8.01	21.6	0.04	<1	1.1	5.8	<10	3
1299509	Soil	0.21	6.8	0.8	<0.05	1.8	7.99	28.2	0.02	1	0.5	5.5	13	4
1299510	Soil	0.12	7.4	0.3	<0.05	3.0	12.08	54.7	0.03	<1	0.9	2.8	<10	<2
1299511	Soil	0.11	6.1	0.9	<0.05	2.7	16.49	21.6	0.05	<1	0.7	4.7	<10	<2
1299512	Soil	0.26	5.3	0.4	<0.05	3.9	11.43	49.6	0.04	1	0.4	4.9	<10	<2
1299513	Soil	0.65	5.5	0.4	<0.05	3.3	10.52	27.4	0.04	2	0.3	7.9	<10	<2
1299514	Soil	0.25	6.5	1.4	<0.05	1.1	6.71	18.0	0.03	1	0.4	8.3	<10	<2
1299515	Soil	0.04	11.3	0.6	<0.05	1.0	8.53	21.5	0.03	1	0.7	26.5	<10	<2
1299516	Soil	0.36	4.9	0.5	<0.05	0.9	5.56	20.5	<0.02	<1	0.8	9.4	<10	<2
1299517	Soil	0.36	5.8	0.4	<0.05	0.9	5.35	18.5	<0.02	<1	0.9	9.9	<10	<2
1299518	Soil	0.24	10.4	0.4	<0.05	1.4	6.03	14.6	<0.02	1	0.8	18.1	<10	3

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.



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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

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	
1299519	Soil	1.16	24.74	16.99	61.7	498	616.8	30.4	518	3.29	189.1	0.9	7.8	3.4	14.6	0.30	4.36	0.25	30	0.31	0.051
1299551	Soil	0.68	14.39	7.82	52.9	82	467.8	28.7	405	2.69	30.6	0.8	2.1	1.7	9.6	0.25	1.67	0.15	32	0.11	0.052
1299552	Soil	0.59	15.42	6.83	52.3	146	535.5	24.2	273	2.35	23.4	0.7	4.8	1.9	12.3	0.23	2.23	0.14	27	0.15	0.064
1299553	Soil	0.77	16.10	6.02	47.4	136	787.7	35.3	445	2.89	35.6	0.5	2.4	2.0	8.7	0.22	3.34	0.11	32	0.12	0.024
1299554	Soil	0.43	12.12	4.22	39.9	163	757.7	29.3	276	2.47	29.6	0.5	2.7	1.3	8.4	0.18	3.33	0.10	29	0.17	0.043
1299555	Soil	1.10	12.46	12.22	73.9	190	544.2	65.0	930	4.54	48.1	0.5	1.1	1.1	10.9	0.49	5.47	0.24	40	0.18	0.080
1299556	Soil	0.84	19.75	8.33	74.1	155	1103	63.8	963	4.34	124.9	0.5	5.0	1.1	16.6	0.43	14.36	0.15	34	0.40	0.085
1299557	Soil	0.96	13.97	13.15	57.9	69	31.4	8.1	394	2.16	108.5	1.4	4.5	4.0	12.8	0.28	0.64	0.26	24	0.23	0.096
1299558	Soil	0.75	5.55	13.48	25.5	35	17.0	3.5	115	1.38	35.1	0.8	0.6	0.4	7.7	0.16	0.39	0.20	15	0.11	0.063
1299559	Soil	2.08	35.36	14.47	68.8	218	331.5	26.7	471	3.14	63.2	1.4	9.2	5.1	11.9	0.45	3.49	0.23	30	0.15	0.064
1299560	Soil	1.24	21.47	14.11	66.3	113	122.6	10.4	319	2.22	62.8	1.2	5.7	1.0	10.1	0.37	2.75	0.26	30	0.12	0.058
1299561	Soil	1.30	21.03	17.33	87.3	208	82.1	10.9	471	2.48	70.5	1.4	6.9	2.9	13.4	0.57	2.28	0.27	29	0.21	0.087
1299562	Soil	0.60	11.57	6.88	46.2	58	508.7	26.5	307	2.55	21.8	0.7	2.2	2.1	8.5	0.27	1.32	0.14	31	0.15	0.051
1299563	Soil	0.73	15.82	6.43	42.3	78	805.8	39.3	319	2.78	28.9	0.7	3.1	2.9	9.6	0.23	1.57	0.13	31	0.14	0.040
1299564	Soil	0.71	15.24	5.97	47.9	75	561.5	35.5	355	2.69	11.5	0.6	7.4	1.9	11.3	0.26	0.85	0.12	28	0.13	0.046
1299565	Soil	0.43	10.29	7.92	44.6	64	382.5	23.6	273	2.26	16.3	0.7	2.5	2.3	7.3	0.23	0.86	0.16	28	0.08	0.034
1299566	Soil	0.30	10.17	8.15	54.8	93	369.7	21.6	273	2.13	23.1	0.6	2.7	2.6	9.7	0.19	2.01	0.14	27	0.14	0.041
1299567	Soil	0.74	15.35	8.14	52.9	210	710.7	51.6	684	3.59	70.9	0.7	2.5	2.0	10.4	0.27	5.35	0.15	39	0.16	0.039
1299568	Soil	0.58	12.77	6.32	47.5	102	881.0	42.3	504	3.70	45.8	0.6	6.5	2.1	7.4	0.21	3.69	0.11	38	0.11	0.031
1299569	Soil	0.53	14.65	3.56	37.3	205	1615	61.2	671	3.53	47.3	0.4	6.6	1.9	5.1	0.14	3.82	0.06	32	0.12	0.016
1299570	Soil	0.67	14.99	7.53	58.0	166	929.3	76.0	1094	4.18	73.3	0.4	0.8	0.8	10.0	0.35	7.17	0.13	34	0.25	0.077
1299571	Soil	0.67	12.92	9.23	107.3	64	872.6	83.1	1530	4.46	89.4	0.4	1.3	0.8	13.2	0.41	4.58	0.16	37	0.33	0.087
1299572	Soil	0.81	18.33	10.99	62.3	88	1009	69.3	1086	5.04	162.3	1.0	2.6	1.2	18.1	0.43	9.72	0.19	37	0.29	0.119
1299573	Soil	2.55	62.94	13.50	101.8	989	577.2	46.9	1381	4.82	638.9	0.9	72.7	5.7	28.3	0.68	15.93	0.24	26	0.37	0.088
1299574	Soil	2.33	56.24	17.04	99.3	820	449.2	34.1	1067	4.00	436.4	1.1	55.8	6.7	21.0	0.60	12.15	0.21	19	0.26	0.092
1299575	Soil	1.20	58.94	19.27	82.9	990	244.4	28.4	727	4.37	314.2	0.9	36.8	7.8	36.3	0.34	3.82	0.21	14	0.57	0.108
1299576	Soil	4.56	67.18	56.83	137.3	973	202.8	22.0	579	4.24	89.5	2.4	14.9	3.8	29.2	0.73	3.10	0.35	25	0.11	0.100
1299577	Soil	2.07	36.52	27.55	136.8	444	112.3	19.4	1289	3.60	36.1	2.1	3.3	5.9	14.7	0.69	1.17	0.44	15	0.10	0.048
1299578	Soil	3.98	51.90	14.03	253.9	224	51.4	30.6	1818	2.99	142.7	5.1	2.1	8.5	18.1	3.45	0.58	0.30	10	0.03	0.043
1299579	Soil	5.21	90.80	21.62	135.7	692	58.4	11.6	227	3.53	85.8	2.7	9.7	0.9	15.8	0.67	2.03	0.36	23	0.07	0.079



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 Report Date: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	0.02	
1299519	Soil	11.4	772.9	2.99	129.3	0.009	9	0.94	0.003	0.09	0.2	5.8	0.09	0.04	31	0.4	0.03	2.5	6.16	<0.1	0.06
1299551	Soil	8.7	461.9	3.58	146.8	0.018	4	0.85	0.005	0.03	0.4	3.4	0.05	0.03	32	0.3	0.03	2.4	0.69	<0.1	0.04
1299552	Soil	10.5	411.0	4.16	121.1	0.020	6	0.77	0.008	0.04	0.4	3.3	0.05	<0.02	29	0.3	0.05	2.2	0.64	<0.1	<0.02
1299553	Soil	7.3	526.1	5.80	95.1	0.017	10	0.77	0.007	0.03	0.4	4.4	0.05	<0.02	28	0.3	0.05	2.0	0.53	<0.1	0.04
1299554	Soil	6.0	617.0	5.72	74.9	0.014	10	0.71	0.006	0.03	1.2	4.2	0.04	0.04	30	0.4	0.02	1.9	0.72	<0.1	0.02
1299555	Soil	7.1	620.2	3.34	141.5	0.013	5	0.80	0.003	0.04	1.2	3.5	0.05	0.05	31	0.4	0.04	3.2	0.69	<0.1	<0.02
1299556	Soil	5.7	857.4	6.69	166.7	0.010	15	0.75	0.006	0.04	1.0	4.5	0.11	0.06	70	0.4	0.04	2.2	1.09	<0.1	0.04
1299557	Soil	18.8	30.2	0.32	96.8	0.023	1	0.86	0.004	0.11	0.3	1.8	0.09	<0.02	15	0.3	0.02	2.4	1.66	<0.1	<0.02
1299558	Soil	13.6	28.5	0.20	59.6	0.006	<1	0.68	0.002	0.11	0.2	0.4	0.12	<0.02	<5	<0.1	<0.02	2.2	1.40	<0.1	<0.02
1299559	Soil	21.4	179.8	1.34	121.4	0.024	1	1.07	0.003	0.04	0.3	2.7	0.08	<0.02	99	0.5	0.08	2.8	1.36	<0.1	<0.02
1299560	Soil	18.7	67.6	0.47	158.2	0.013	<1	1.10	0.004	0.06	0.3	1.6	0.11	<0.02	45	0.3	0.06	3.3	1.51	<0.1	<0.02
1299561	Soil	20.6	60.9	0.54	145.8	0.016	<1	0.97	0.005	0.10	0.2	2.0	0.10	<0.02	35	0.1	<0.02	2.9	1.96	<0.1	<0.02
1299562	Soil	9.8	434.2	4.53	88.8	0.021	7	0.71	0.006	0.04	0.3	3.2	0.04	<0.02	28	<0.1	<0.02	2.1	0.76	<0.1	0.03
1299563	Soil	9.4	329.4	4.19	107.0	0.025	4	0.83	0.006	0.04	0.2	3.3	0.04	<0.02	10	0.1	0.03	2.1	1.08	<0.1	0.02
1299564	Soil	8.5	457.1	4.12	105.6	0.025	9	0.73	0.010	0.05	0.4	3.0	0.05	0.03	28	0.2	0.03	2.1	0.47	<0.1	0.03
1299565	Soil	10.4	419.8	3.25	97.7	0.017	4	0.85	0.005	0.04	0.4	3.8	0.05	<0.02	21	<0.1	<0.02	2.5	0.64	<0.1	0.03
1299566	Soil	10.4	392.8	2.97	113.6	0.022	5	0.86	0.006	0.04	0.4	3.9	0.05	0.02	32	0.1	0.02	2.6	0.77	<0.1	0.04
1299567	Soil	8.5	617.6	3.79	123.2	0.022	9	0.98	0.006	0.05	0.6	5.5	0.07	0.04	39	0.4	0.05	2.6	0.98	<0.1	<0.02
1299568	Soil	8.1	759.1	5.56	91.4	0.018	9	0.91	0.005	0.03	0.8	6.1	0.06	<0.02	38	0.3	0.05	2.4	0.91	<0.1	0.03
1299569	Soil	6.3	984.2	11.22	60.7	0.013	24	0.64	0.004	0.02	0.7	7.0	0.03	<0.02	39	0.4	0.03	1.6	0.38	<0.1	0.03
1299570	Soil	4.4	1057	6.88	90.9	0.012	14	0.72	0.004	0.04	1.0	4.6	0.06	0.08	61	0.4	0.04	2.2	0.72	<0.1	<0.02
1299571	Soil	5.0	936.9	6.44	148.6	0.014	12	0.79	0.004	0.05	0.7	4.4	0.05	0.07	40	0.6	0.02	2.5	1.10	<0.1	<0.02
1299572	Soil	6.1	896.5	5.89	183.9	0.011	19	0.97	0.005	0.04	0.5	5.3	0.07	0.08	48	0.4	0.04	2.5	1.45	<0.1	0.04
1299573	Soil	14.7	252.9	1.98	205.2	0.007	6	0.68	0.004	0.07	0.5	5.8	0.10	<0.02	76	0.8	0.06	1.8	2.51	<0.1	0.05
1299574	Soil	18.0	184.6	1.44	133.0	0.002	4	0.52	0.003	0.06	0.5	5.0	0.09	<0.02	51	0.5	0.07	1.4	3.24	<0.1	0.05
1299575	Soil	18.0	143.9	1.10	84.7	0.002	6	0.40	0.003	0.07	0.6	6.6	0.07	0.02	37	0.5	<0.02	0.9	4.32	<0.1	0.08
1299576	Soil	15.4	212.4	1.45	112.6	0.005	2	1.02	0.002	0.05	0.3	2.7	0.07	0.04	56	1.0	0.10	2.9	1.51	<0.1	0.06
1299577	Soil	18.4	109.5	0.87	74.4	<0.001	2	1.48	<0.001	0.05	0.1	2.3	0.06	<0.02	36	0.6	0.03	3.9	5.18	<0.1	0.12
1299578	Soil	25.6	10.3	0.04	134.0	<0.001	<1	0.27	0.002	0.05	0.1	1.7	0.07	<0.02	36	1.2	0.04	0.9	5.93	<0.1	0.03
1299579	Soil	13.7	43.5	0.24	82.9	0.004	<1	0.66	0.003	0.04	0.2	0.8	0.06	0.03	52	1.9	0.14	1.9	1.54	<0.1	<0.02

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.



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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299519	Soil	0.26	12.4	0.5	<0.05	2.0	5.53	23.6	<0.02	2	0.5	13.3	<10	3
1299551	Soil	0.34	5.0	0.5	<0.05	0.9	4.18	17.7	<0.02	<1	0.3	8.9	<10	<2
1299552	Soil	0.24	4.8	0.5	<0.05	0.4	5.66	19.8	<0.02	<1	0.3	8.1	<10	<2
1299553	Soil	0.25	3.8	0.4	<0.05	1.2	3.22	15.1	<0.02	2	0.4	7.1	<10	<2
1299554	Soil	0.30	5.0	0.3	<0.05	0.8	2.10	11.0	<0.02	2	0.2	6.2	<10	2
1299555	Soil	0.43	7.5	0.5	<0.05	0.6	2.52	16.0	0.02	1	0.3	7.4	<10	<2
1299556	Soil	0.32	5.6	0.7	<0.05	1.3	3.36	11.6	<0.02	1	0.5	7.6	<10	3
1299557	Soil	0.38	11.0	0.6	<0.05	0.5	8.65	39.4	<0.02	<1	0.6	12.6	<10	<2
1299558	Soil	0.13	14.9	0.6	<0.05	<0.1	4.16	27.2	<0.02	1	0.3	7.6	<10	<2
1299559	Soil	0.23	6.5	0.4	<0.05	0.6	10.25	43.3	<0.02	2	0.7	16.9	<10	<2
1299560	Soil	0.19	10.6	0.5	<0.05	<0.1	6.97	35.9	0.03	<1	0.4	13.3	<10	<2
1299561	Soil	0.22	10.6	0.6	<0.05	0.2	8.38	40.2	<0.02	<1	0.4	15.4	<10	<2
1299562	Soil	0.25	4.5	0.6	<0.05	0.7	4.36	20.2	<0.02	<1	0.1	7.5	<10	<2
1299563	Soil	0.19	3.3	0.3	<0.05	1.0	4.20	19.2	<0.02	<1	0.3	7.6	<10	<2
1299564	Soil	0.43	4.1	0.4	<0.05	1.1	4.11	17.4	<0.02	<1	0.2	7.0	<10	<2
1299565	Soil	0.30	5.4	0.6	<0.05	0.8	3.79	19.6	<0.02	<1	0.2	10.0	<10	<2
1299566	Soil	0.46	5.8	0.6	<0.05	1.1	4.32	18.6	<0.02	1	0.3	9.4	<10	<2
1299567	Soil	0.46	6.3	0.5	<0.05	0.6	3.27	17.0	<0.02	<1	0.4	10.6	<10	<2
1299568	Soil	0.22	5.4	0.2	<0.05	0.7	2.77	16.2	<0.02	1	0.3	9.5	<10	<2
1299569	Soil	0.05	2.0	0.2	<0.05	1.0	3.97	9.7	<0.02	<1	0.2	5.4	<10	4
1299570	Soil	0.38	6.7	0.4	<0.05	0.7	1.65	9.9	<0.02	1	0.3	5.4	<10	<2
1299571	Soil	0.41	9.0	0.7	<0.05	0.6	2.22	11.2	<0.02	<1	0.2	5.8	<10	2
1299572	Soil	0.34	7.2	0.4	<0.05	1.2	2.76	13.2	0.03	<1	0.5	10.8	<10	3
1299573	Soil	0.20	5.5	0.4	<0.05	3.1	8.02	28.3	0.02	2	0.6	6.9	<10	3
1299574	Soil	0.10	5.1	0.4	<0.05	2.9	8.38	34.6	0.02	1	0.7	4.7	<10	<2
1299575	Soil	0.12	5.6	0.4	<0.05	3.0	10.60	34.0	0.04	<1	1.0	3.7	<10	<2
1299576	Soil	0.16	5.4	0.5	<0.05	1.9	5.26	29.4	0.02	<1	0.4	13.1	<10	<2
1299577	Soil	0.05	5.9	0.3	<0.05	3.7	4.01	36.1	<0.02	<1	0.4	25.9	<10	<2
1299578	Soil	<0.02	4.8	0.1	<0.05	2.8	5.25	49.8	<0.02	<1	0.3	1.5	<10	<2
1299579	Soil	0.10	4.6	0.5	<0.05	0.1	3.92	25.5	<0.02	<1	0.6	6.4	<10	<2



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Project: Rivier  
 Report Date: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				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
1299580	Soil			1.90	59.97	37.91	143.7	1197	98.7	30.7	1224	4.57	973.4	1.1	128.0	14.5	18.0	0.66	6.14	0.44	8	0.62	0.066
1299581	Soil			1.58	61.25	15.72	83.7	678	441.4	48.2	771	4.25	410.2	0.9	39.8	7.7	25.0	0.48	14.48	0.26	19	0.40	0.067
1299582	Soil			1.17	38.76	8.99	75.4	512	1983	64.0	631	5.02	1033	0.7	42.0	2.7	22.4	0.31	124.0	0.18	38	0.40	0.073
1299583	Soil			0.34	16.70	4.30	46.8	79	2549	106.8	1172	5.81	402.4	0.3	4.0	0.7	45.5	0.26	54.04	0.08	42	1.06	0.040
1299584	Soil			0.85	18.63	7.38	52.8	144	934.8	43.3	684	3.75	113.4	1.0	3.6	2.4	9.9	0.26	12.38	0.16	38	0.13	0.027
1299585	Soil			0.45	23.32	4.10	36.5	83	1941	82.5	1132	4.03	56.8	0.4	3.4	1.2	3.8	0.18	4.75	0.08	31	0.10	0.033
1299586	Soil			1.32	16.18	19.54	77.9	144	23.9	13.2	653	3.24	25.7	1.2	1.8	7.7	16.4	0.25	1.02	0.17	44	0.36	0.107
1299587	Soil			1.44	22.86	17.89	76.4	191	28.8	12.1	431	3.38	29.9	1.3	3.6	9.0	16.3	0.31	3.12	0.17	44	0.34	0.108
1299588	Soil			0.73	40.08	13.94	75.8	657	612.7	30.3	269	3.30	213.5	0.7	41.2	4.7	15.8	0.32	17.08	0.16	40	0.24	0.071
1299589	Soil			0.72	40.26	10.16	72.8	800	1170	52.3	879	5.36	1222	0.6	52.1	2.8	21.5	0.33	26.71	0.12	56	0.32	0.058
1299590	Soil			0.51	18.24	15.09	72.5	138	1086	53.3	570	3.56	88.0	0.6	7.8	6.6	17.3	0.28	4.83	0.18	29	0.26	0.051
1299591	Soil			0.43	15.81	3.82	35.1	58	1722	75.0	817	4.01	36.6	0.4	2.8	0.8	10.2	0.16	1.20	0.06	38	0.18	0.054
1299592	Soil			0.30	10.40	6.24	42.4	41	740.4	36.8	452	2.48	11.9	0.6	3.2	2.3	8.9	0.15	0.89	0.12	34	0.13	0.034
1299593	Soil			0.67	12.95	6.05	42.2	45	1022	45.3	651	3.02	11.3	0.6	2.3	2.4	8.1	0.19	0.72	0.11	34	0.09	0.039
1299594	Soil			0.69	25.69	4.72	43.4	125	1129	51.7	527	4.02	40.0	0.5	4.1	2.7	12.4	0.17	2.51	0.08	39	0.18	0.024
1299595	Soil			1.01	47.28	13.62	76.5	535	400.2	26.8	849	3.34	125.2	0.9	9.5	6.2	13.0	0.26	6.59	0.19	28	0.20	0.066
1299596	Soil			0.55	60.58	7.36	88.3	484	164.2	35.8	1771	5.93	68.9	0.4	9.1	0.4	54.4	0.34	16.60	0.11	82	1.31	0.097
1299597	Soil			1.43	88.55	12.28	84.7	1513	82.8	16.8	724	3.32	203.0	0.9	28.9	2.8	30.5	0.12	20.99	0.21	18	0.38	0.051
1299598	Soil			1.07	57.07	12.05	82.3	611	136.6	17.0	819	3.48	137.0	1.0	15.6	3.2	24.3	0.20	10.89	0.22	31	0.45	0.064
1299599	Soil			1.15	51.50	23.78	99.2	398	112.3	14.9	549	2.73	122.3	1.5	11.1	8.3	19.6	0.34	8.03	0.29	17	0.27	0.077
1299600	Soil			1.38	28.14	28.57	62.2	239	74.3	9.8	363	2.06	69.7	1.6	6.9	19.6	21.2	0.34	3.14	0.26	10	0.21	0.081
1299601	Soil			1.68	29.18	42.60	86.1	167	136.9	20.8	541	4.49	1005	0.6	17.2	2.4	20.3	0.43	22.06	0.23	41	0.29	0.067
1299602	Soil			1.91	43.39	28.09	102.6	1477	94.3	14.3	494	4.67	815.6	1.2	78.2	6.1	20.8	0.42	14.91	0.39	30	0.25	0.082
1299603	Soil			1.48	73.65	58.24	176.6	2746	533.2	65.6	1374	6.33	2201	1.6	214.3	4.2	30.8	1.04	37.73	0.46	31	0.42	0.076
1299604	Soil			2.10	45.71	27.97	133.1	1819	121.4	19.9	649	3.92	714.6	2.2	95.1	3.3	36.6	0.53	9.95	0.33	23	0.61	0.128
1299605	Soil			7.76	88.26	28.51	503.3	1317	94.5	12.8	613	4.27	225.5	2.3	27.5	7.6	17.4	3.36	14.11	0.33	18	0.09	0.076
1299606	Soil			1.30	21.20	15.58	73.2	543	33.3	17.9	1071	2.10	65.2	0.8	11.4	3.8	13.2	0.31	2.45	0.27	23	0.14	0.074
1299607	Soil			2.30	38.70	25.23	80.0	1251	97.6	12.9	406	3.48	423.9	1.4	36.2	2.7	27.9	0.35	9.13	0.30	33	0.43	0.082
1299608	Soil			0.48	10.12	7.97	19.5	1465	13.8	2.4	62	0.78	67.4	0.6	10.2	0.2	17.7	0.09	1.33	0.11	15	0.27	0.077
1299609	Soil			1.89	38.89	24.86	133.8	1373	43.5	5.1	122	2.10	68.1	3.3	14.6	1.8	32.4	0.85	4.58	0.23	25	0.41	0.153



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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01		5	0.1	0.02	0.1	0.02	0.1	0.02	
1299580	Soil		25.9	17.8	0.12	122.7	<0.001	2	0.31	0.002	0.06	0.5	3.9	0.09	0.05	30	0.7	0.04	0.8	3.81	<0.1	0.13
1299581	Soil		16.4	157.2	1.68	177.2	0.003	3	0.45	0.003	0.06	0.6	5.0	0.09	0.02	33	0.6	0.05	1.1	2.86	<0.1	0.05
1299582	Soil		8.6	640.2	3.43	235.0	0.006	6	0.75	0.004	0.04	1.1	6.7	0.67	<0.02	227	0.4	0.03	2.0	9.18	<0.1	0.03
1299583	Soil		2.8	1309	11.31	128.7	0.005	16	0.68	0.003	0.03	1.4	9.2	0.42	0.05	219	0.2	<0.02	1.6	3.94	<0.1	<0.02
1299584	Soil		9.9	516.2	3.93	135.7	0.020	13	0.95	0.007	0.04	0.5	4.9	0.11	0.02	32	0.2	0.03	2.4	0.94	<0.1	0.03
1299585	Soil		3.9	1420	14.41	80.9	0.007	37	0.66	0.003	0.02	0.6	6.5	0.05	0.03	16	0.3	0.03	1.5	0.49	<0.1	0.03
1299586	Soil		26.0	21.0	0.57	123.1	0.005	<1	1.27	<0.001	0.10	0.1	3.5	0.10	0.03	28	0.2	0.02	3.8	3.40	<0.1	0.04
1299587	Soil		27.4	19.3	0.62	119.7	0.005	1	1.22	0.002	0.08	0.2	4.0	0.09	0.03	48	0.2	0.02	3.6	2.19	<0.1	0.04
1299588	Soil		16.0	302.5	2.22	122.2	0.014	3	1.02	0.005	0.06	0.7	6.0	0.18	<0.02	169	0.2	<0.02	2.7	2.23	<0.1	0.04
1299589	Soil		10.8	606.6	3.83	155.8	0.006	5	1.10	0.003	0.06	0.8	9.6	0.22	0.03	143	0.3	<0.02	2.7	4.18	<0.1	0.05
1299590	Soil		12.5	693.8	3.79	150.6	0.003	6	0.71	0.002	0.08	0.8	5.5	0.10	0.02	78	<0.1	<0.02	1.9	2.44	<0.1	0.04
1299591	Soil		3.5	1296	14.35	99.4	0.007	31	0.69	0.004	0.02	0.2	7.1	0.05	0.05	48	0.2	0.02	1.6	2.11	<0.1	<0.02
1299592	Soil		8.7	580.4	4.97	110.3	0.027	7	0.99	0.006	0.04	0.3	5.1	0.06	0.03	27	0.1	<0.02	2.6	1.30	<0.1	<0.02
1299593	Soil		8.9	875.4	7.82	101.9	0.019	17	0.78	0.007	0.03	0.4	5.2	0.05	0.02	27	0.2	<0.02	1.9	0.90	<0.1	0.03
1299594	Soil		8.2	795.7	7.34	79.3	0.016	16	0.84	0.007	0.03	0.3	6.8	0.07	<0.02	42	0.2	0.02	2.1	7.71	<0.1	0.02
1299595	Soil		18.6	214.8	1.68	180.3	0.014	4	0.76	0.005	0.08	0.3	4.6	0.06	<0.02	42	0.4	0.04	1.9	2.30	<0.1	0.06
1299596	Soil		5.0	102.2	1.95	216.9	0.002	5	0.60	0.002	0.05	1.9	10.1	0.24	0.10	99	0.3	0.03	1.6	4.25	<0.1	<0.02
1299597	Soil		8.4	45.5	0.39	267.1	0.001	4	0.41	0.001	0.07	0.3	3.6	0.06	0.05	51	0.3	0.06	1.1	3.24	<0.1	0.14
1299598	Soil		12.4	94.0	1.04	222.3	0.009	3	0.73	0.004	0.06	0.7	4.8	0.07	0.04	51	0.4	0.06	2.0	1.93	<0.1	0.06
1299599	Soil		12.7	92.9	0.84	187.3	0.005	3	0.45	0.003	0.09	0.4	2.5	0.06	0.02	37	0.3	0.03	1.2	2.02	<0.1	0.09
1299600	Soil		39.0	60.3	0.54	110.0	0.005	1	0.35	0.004	0.08	0.2	1.6	0.05	0.03	11	0.1	<0.02	0.9	1.24	<0.1	0.05
1299601	Soil		11.8	72.1	0.56	552.4	0.003	2	1.09	0.002	0.05	1.3	2.9	0.20	0.02	20	0.3	0.02	3.3	3.22	<0.1	<0.02
1299602	Soil		16.3	72.1	0.46	398.8	0.003	2	1.03	0.002	0.05	0.5	5.0	0.15	<0.02	37	0.3	0.03	2.3	2.11	<0.1	0.03
1299603	Soil		15.6	54.5	0.46	299.2	0.003	3	0.87	0.003	0.05	0.9	9.4	0.22	<0.02	127	0.7	0.05	2.0	4.79	<0.1	0.04
1299604	Soil		10.8	60.3	0.45	301.7	0.003	3	0.98	0.007	0.06	0.4	3.7	0.14	0.08	77	1.2	0.04	2.4	3.25	<0.1	0.11
1299605	Soil		28.6	14.6	0.15	174.8	0.003	2	0.41	0.002	0.05	0.8	2.6	0.07	<0.02	98	1.4	0.09	1.0	1.19	<0.1	<0.02
1299606	Soil		20.6	23.7	0.25	253.8	0.004	<1	0.80	0.002	0.05	0.2	1.6	0.10	<0.02	51	0.6	0.02	2.1	1.57	<0.1	0.03
1299607	Soil		13.8	74.0	0.43	404.5	0.004	<1	1.09	0.002	0.05	0.5	3.3	0.15	0.02	109	0.8	0.04	3.1	2.19	<0.1	<0.02
1299608	Soil		7.1	25.9	0.15	150.6	0.003	<1	0.74	0.017	0.03	0.2	0.3	0.14	0.03	41	0.3	<0.02	2.6	1.30	<0.1	<0.02
1299609	Soil		11.7	37.8	0.42	231.6	0.006	1	1.03	0.005	0.05	0.2	1.8	0.13	0.07	67	2.1	0.04	2.7	2.17	<0.1	0.06

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.



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Project: Rivier  
 Report Date: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

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	
1299580	Soil	0.06	5.3	0.3	<0.05	5.9	12.50	48.7	0.06	<1	0.7	3.1	<10	<2
1299581	Soil	0.12	5.0	0.5	<0.05	2.8	7.63	30.4	0.03	<1	0.5	4.2	<10	<2
1299582	Soil	0.23	6.8	0.6	<0.05	1.4	5.44	15.9	0.03	<1	1.2	10.1	10	3
1299583	Soil	0.13	4.8	0.8	<0.05	0.6	2.05	5.2	<0.02	<1	1.7	15.6	<10	4
1299584	Soil	0.29	4.2	0.4	<0.05	0.7	4.49	18.3	<0.02	<1	0.6	10.3	<10	<2
1299585	Soil	0.07	3.0	0.4	<0.05	0.8	2.40	7.1	<0.02	<1	0.2	4.5	<10	5
1299586	Soil	0.29	8.8	0.4	<0.05	1.5	8.96	50.7	0.02	<1	0.4	16.0	<10	<2
1299587	Soil	0.30	7.6	0.4	<0.05	1.5	9.17	54.8	0.02	<1	0.3	16.2	<10	<2
1299588	Soil	0.39	6.7	0.5	<0.05	1.8	8.39	30.5	0.03	<1	0.8	13.1	<10	<2
1299589	Soil	0.27	7.1	0.6	<0.05	1.6	7.26	20.4	0.02	<1	1.1	15.1	<10	<2
1299590	Soil	0.22	6.8	0.3	<0.05	1.8	6.20	24.2	<0.02	<1	0.8	14.8	<10	<2
1299591	Soil	0.11	3.0	0.7	<0.05	0.6	2.19	6.9	<0.02	<1	0.2	15.5	<10	5
1299592	Soil	0.38	5.2	0.5	<0.05	0.9	3.18	17.1	<0.02	<1	0.2	11.4	<10	3
1299593	Soil	0.22	4.7	0.5	<0.05	0.9	3.68	17.2	<0.02	<1	0.2	8.7	<10	<2
1299594	Soil	0.14	4.5	1.1	<0.05	1.0	5.52	15.2	<0.02	<1	0.4	16.7	<10	<2
1299595	Soil	0.23	6.8	0.7	<0.05	3.5	7.02	35.2	0.03	<1	0.5	9.4	<10	<2
1299596	Soil	0.17	10.2	0.8	<0.05	0.4	13.07	10.3	0.04	<1	1.4	4.3	<10	<2
1299597	Soil	0.21	5.9	0.4	<0.05	5.3	8.04	16.5	0.02	<1	0.5	3.2	11	<2
1299598	Soil	0.38	6.5	0.9	<0.05	2.3	9.87	23.2	0.02	<1	0.6	7.6	<10	<2
1299599	Soil	0.37	6.3	0.3	<0.05	3.3	9.45	24.8	0.02	<1	0.4	5.2	<10	<2
1299600	Soil	1.12	4.6	0.7	<0.05	3.1	15.01	71.0	<0.02	<1	0.2	4.2	<10	<2
1299601	Soil	0.35	11.1	0.6	<0.05	0.6	3.70	23.7	0.03	<1	0.6	15.2	<10	<2
1299602	Soil	0.29	9.7	0.6	<0.05	0.9	11.96	30.9	0.03	<1	0.8	12.5	<10	<2
1299603	Soil	0.26	8.7	0.4	<0.05	1.6	14.71	30.2	0.05	<1	0.7	9.4	<10	3
1299604	Soil	0.39	12.2	0.4	<0.05	3.0	12.62	18.4	0.03	<1	0.7	7.8	<10	<2
1299605	Soil	0.11	4.3	0.6	<0.05	0.4	10.74	51.0	0.03	<1	0.5	3.8	10	<2
1299606	Soil	0.19	9.4	0.5	<0.05	1.0	5.00	39.1	<0.02	2	0.4	7.6	<10	<2
1299607	Soil	0.37	9.8	0.8	<0.05	0.6	8.16	25.4	0.02	<1	0.5	10.2	<10	<2
1299608	Soil	0.12	6.4	0.5	<0.05	<0.1	1.62	13.5	<0.02	<1	0.2	3.4	<10	<2
1299609	Soil	0.34	10.4	0.4	<0.05	1.9	9.57	22.5	0.02	5	0.5	13.0	<10	<2

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.



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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	ppb	ppm	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	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1299610	Soil	2.15	30.19	13.51	76.7	501	37.1	8.7	344	2.39	35.2	1.1	5.4	0.4	14.5	0.38	1.62	0.24	36	0.16	0.096	
1299611	Soil	1.69	39.22	22.42	145.9	148	44.9	20.2	713	3.73	136.0	1.3	28.6	9.3	15.0	0.78	2.79	0.36	22	0.12	0.058	
1299612	Soil	1.70	22.03	13.10	76.4	80	44.3	12.2	421	2.80	31.9	0.8	7.2	2.7	15.1	0.20	1.35	0.22	39	0.20	0.067	
1299613	Soil	1.40	25.06	11.00	60.7	309	36.2	8.9	275	2.38	17.1	0.8	3.1	0.4	15.3	0.19	1.09	0.21	44	0.20	0.081	
1299614	Soil	1.14	23.98	13.18	61.8	146	115.7	12.7	399	2.69	170.9	1.1	12.7	3.6	11.5	0.25	4.42	0.22	31	0.16	0.051	
1299615	Soil	0.90	19.73	10.06	61.2	212	118.9	11.8	308	2.22	96.0	0.7	20.4	6.0	17.9	0.30	3.45	0.18	31	0.27	0.073	
1299616	Soil	0.83	23.13	9.01	59.8	234	146.2	12.5	269	2.18	106.7	0.7	17.6	5.5	17.4	0.30	4.35	0.18	29	0.26	0.072	
1299617	Soil	0.89	24.19	11.54	73.1	348	175.7	13.3	282	2.60	163.7	0.8	16.9	2.5	18.7	0.28	5.90	0.20	28	0.32	0.079	
1299618	Soil	1.05	32.77	12.94	97.0	392	510.1	15.4	337	2.64	146.0	0.7	5.2	1.8	18.0	0.37	5.88	0.22	31	0.39	0.102	
1299619	Soil	1.12	15.81	13.63	73.8	84	208.1	18.7	421	2.62	59.3	0.8	2.0	2.2	10.2	0.57	2.95	0.22	33	0.13	0.057	
1299620	Soil	1.51	18.10	11.98	77.7	169	131.9	16.8	527	2.53	35.9	0.9	3.6	2.4	14.1	0.47	1.95	0.24	36	0.15	0.073	
1299621	Soil	0.64	14.21	10.80	75.3	191	219.8	16.3	270	2.11	50.6	0.8	15.1	3.1	18.7	0.22	2.03	0.18	30	0.28	0.088	
1299622	Soil	1.25	21.01	15.57	79.4	168	39.4	9.8	448	2.58	75.5	1.3	10.3	4.7	11.6	0.39	1.11	0.25	30	0.18	0.076	
1299623	Soil	1.82	35.36	18.05	85.9	310	43.4	11.9	504	2.80	99.8	1.5	13.7	5.3	11.2	0.44	2.18	0.30	30	0.15	0.077	
1299624	Soil	1.07	19.63	12.66	65.0	111	26.5	10.8	496	2.42	56.2	1.2	8.8	3.5	10.3	0.23	0.76	0.25	24	0.16	0.069	
1299625	Soil	0.88	14.41	14.41	71.4	163	39.8	7.7	318	2.10	52.0	1.4	4.5	5.5	13.1	0.27	1.45	0.23	24	0.20	0.076	
1299626	Soil	1.02	28.89	21.58	67.2	1020	188.2	22.0	1663	2.86	245.3	1.2	13.7	3.2	29.5	0.49	9.31	0.23	22	0.50	0.086	
1299627	Soil	1.22	22.41	14.76	82.3	47	33.1	13.2	523	2.65	92.3	1.3	12.7	8.0	12.9	0.38	0.61	0.29	25	0.25	0.090	
1299628	Soil	1.58	18.50	28.05	79.9	155	24.1	12.8	811	4.49	72.6	0.7	4.4	1.9	6.7	0.25	0.67	0.40	24	0.08	0.093	
1299629	Soil	0.62	101.0	8.73	73.7	13093	719.1	53.3	699	7.66	>10000	0.4	2231	1.5	112.3	0.33	116.6	0.08	17	1.80	0.030	
1299630	Soil	1.02	26.96	14.56	71.2	2061	1342	62.0	1124	4.36	813.6	0.6	68.6	2.7	45.6	0.41	68.93	0.17	31	0.74	0.056	
1299631	Soil	0.88	37.27	13.95	79.7	7300	723.5	39.6	720	3.42	756.4	0.8	81.0	4.0	28.8	0.40	39.68	0.20	31	0.30	0.051	
1299632	Soil	0.97	29.94	15.21	79.7	841	472.8	30.5	654	2.92	351.7	0.9	17.5	4.7	16.6	0.35	21.26	0.23	31	0.21	0.067	
1299633	Soil	0.94	18.80	15.76	72.8	398	79.6	10.5	396	2.62	119.3	1.1	5.7	4.2	15.8	0.27	5.63	0.25	30	0.20	0.077	
1299634	Soil	0.90	15.73	13.08	67.1	234	37.7	6.8	295	2.24	63.0	1.1	5.0	5.1	13.3	0.17	2.01	0.23	27	0.20	0.081	
1299635	Soil	1.00	28.27	12.69	75.0	398	334.9	25.8	538	2.84	207.2	0.9	36.1	4.8	17.0	0.33	6.82	0.18	28	0.27	0.071	
1299636	Soil	1.10	17.14	10.26	74.8	90	73.6	10.6	318	2.00	35.2	0.7	3.4	3.2	16.2	0.25	1.45	0.20	36	0.21	0.056	
1299637	Soil	0.90	26.68	7.37	60.8	224	538.2	13.4	344	1.79	55.4	0.8	5.4	1.1	32.1	0.37	2.03	0.15	24	0.83	0.074	
1299638	Soil	0.81	23.85	9.83	76.0	439	365.0	23.6	335	2.59	260.8	0.6	32.0	2.5	24.1	0.40	6.78	0.15	27	0.47	0.073	
1299639	Soil	0.59	15.75	5.67	42.2	338	276.2	12.5	155	1.64	139.7	0.4	17.8	1.1	20.1	0.15	4.63	0.08	18	0.37	0.055	



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Project: Rivier  
 Report Date: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	
1299610	Soil	15.3	43.5	0.39	244.3	0.006	1	1.22	0.006	0.06	0.2	0.6	0.15	<0.02	98	0.5	0.05	3.8	1.77	<0.1	<0.02
1299611	Soil	21.7	17.5	0.24	247.1	0.010	2	0.72	0.004	0.07	0.3	2.6	0.08	<0.02	81	0.4	0.04	1.9	1.63	<0.1	0.04
1299612	Soil	20.5	58.8	0.71	171.9	0.016	1	1.32	0.002	0.04	0.2	1.7	0.09	<0.02	24	0.4	0.03	3.8	1.90	<0.1	<0.02
1299613	Soil	17.4	60.3	0.65	192.2	0.012	<1	1.50	0.007	0.05	0.1	0.9	0.12	<0.02	73	0.3	0.03	4.7	1.71	<0.1	<0.02
1299614	Soil	16.0	81.7	0.66	185.0	0.016	1	1.00	0.005	0.05	0.4	2.3	0.09	<0.02	47	0.3	0.03	2.6	1.20	<0.1	<0.02
1299615	Soil	15.2	74.1	0.71	151.2	0.041	2	0.82	0.009	0.06	0.4	2.6	0.08	<0.02	50	0.2	<0.02	2.4	0.91	<0.1	0.03
1299616	Soil	13.8	90.0	0.74	124.9	0.037	3	0.71	0.008	0.06	0.4	2.6	0.06	<0.02	42	0.5	<0.02	2.3	1.02	<0.1	0.03
1299617	Soil	11.5	93.4	0.71	200.4	0.015	4	0.89	0.007	0.05	0.4	2.6	0.09	0.03	54	0.4	<0.02	2.4	1.65	<0.1	0.04
1299618	Soil	9.8	236.9	1.80	222.3	0.010	7	0.92	0.005	0.07	0.4	3.0	0.09	0.08	44	0.6	0.06	2.4	2.11	<0.1	0.06
1299619	Soil	12.5	251.6	1.64	197.2	0.013	4	0.88	0.004	0.06	0.4	2.4	0.08	<0.02	18	0.4	<0.02	2.7	1.73	<0.1	<0.02
1299620	Soil	15.3	162.4	1.37	266.0	0.016	3	0.97	0.005	0.08	0.2	2.1	0.08	<0.02	31	0.4	<0.02	3.0	1.13	<0.1	<0.02
1299621	Soil	15.1	193.0	1.55	184.1	0.016	5	0.94	0.005	0.09	0.4	2.7	0.09	<0.02	24	0.6	<0.02	2.6	2.49	<0.1	<0.02
1299622	Soil	25.8	31.7	0.41	101.3	0.025	1	0.98	0.004	0.12	0.2	2.0	0.08	<0.02	17	0.3	<0.02	2.7	2.06	<0.1	<0.02
1299623	Soil	23.0	29.9	0.43	109.4	0.021	<1	1.06	0.004	0.11	0.2	2.4	0.09	<0.02	28	0.4	<0.02	2.9	2.09	<0.1	0.05
1299624	Soil	23.2	22.3	0.37	102.1	0.014	1	1.00	0.003	0.11	0.2	1.7	0.09	<0.02	18	0.2	<0.02	2.8	2.07	<0.1	<0.02
1299625	Soil	17.4	29.4	0.40	127.2	0.015	2	0.83	0.003	0.14	0.2	2.0	0.08	<0.02	13	0.4	<0.02	2.3	1.83	<0.1	<0.02
1299626	Soil	12.1	124.2	0.60	232.2	0.007	2	0.80	0.003	0.10	0.3	2.7	0.12	0.04	60	0.4	<0.02	2.3	1.38	<0.1	0.05
1299627	Soil	23.9	25.3	0.43	105.2	0.020	<1	0.93	0.002	0.11	0.2	2.3	0.07	<0.02	13	0.3	<0.02	2.6	1.60	<0.1	0.04
1299628	Soil	13.9	23.6	0.22	51.0	0.006	1	0.97	<0.001	0.06	0.3	1.2	0.07	0.02	27	0.4	<0.02	3.5	1.42	<0.1	<0.02
1299629	Soil	5.0	77.2	1.22	207.1	<0.001	2	0.29	0.002	0.09	1.4	13.3	0.48	0.04	233	0.8	<0.02	0.5	11.17	<0.1	<0.02
1299630	Soil	9.3	307.8	4.68	155.7	0.011	7	0.86	0.004	0.08	1.1	4.4	0.78	0.04	402	0.3	<0.02	2.1	2.39	<0.1	0.06
1299631	Soil	13.1	129.9	0.90	144.2	0.014	3	0.99	0.008	0.09	0.4	4.9	0.20	<0.02	99	0.2	<0.02	2.7	3.11	<0.1	<0.02
1299632	Soil	16.3	81.0	0.75	143.4	0.017	1	1.04	0.007	0.11	0.3	3.4	0.19	<0.02	83	0.3	<0.02	2.8	2.38	<0.1	<0.02
1299633	Soil	19.3	50.5	0.59	182.5	0.015	1	1.03	0.004	0.11	0.3	2.6	0.11	<0.02	39	0.3	<0.02	2.9	1.57	<0.1	0.03
1299634	Soil	21.6	31.5	0.47	149.0	0.016	<1	0.99	0.003	0.11	0.2	2.3	0.09	<0.02	15	<0.1	<0.02	2.8	1.66	<0.1	<0.02
1299635	Soil	17.0	205.4	1.87	146.9	0.019	2	0.75	0.005	0.06	0.5	3.7	0.08	<0.02	45	0.3	<0.02	2.3	1.70	<0.1	0.02
1299636	Soil	13.7	50.2	0.55	190.7	0.031	2	0.97	0.007	0.09	0.3	2.0	0.08	<0.02	21	0.3	<0.02	2.9	0.93	<0.1	<0.02
1299637	Soil	8.3	100.7	1.00	275.0	0.010	3	0.82	0.007	0.05	0.2	1.9	0.07	0.08	61	0.6	<0.02	2.0	1.95	<0.1	0.05
1299638	Soil	11.3	235.9	1.89	139.1	0.015	5	0.77	0.009	0.06	0.5	3.1	0.08	0.03	52	0.6	<0.02	2.1	1.43	<0.1	0.06
1299639	Soil	5.9	136.3	1.09	114.7	0.014	3	0.63	0.026	0.04	0.2	2.0	0.06	0.03	35	0.2	<0.02	1.7	0.97	<0.1	0.03

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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299610	Soil	0.20	10.0	0.5	<0.05	0.1	5.08	29.6	0.02	<1	0.4	10.5	<10	<2
1299611	Soil	0.16	6.0	0.5	<0.05	4.0	6.14	41.6	0.02	<1	0.4	6.7	<10	<2
1299612	Soil	0.42	8.5	0.6	<0.05	0.2	4.56	39.8	0.02	<1	0.4	20.2	<10	<2
1299613	Soil	0.41	8.7	0.6	<0.05	<0.1	4.88	32.6	0.02	<1	0.4	13.4	<10	<2
1299614	Soil	0.50	6.9	0.6	<0.05	0.3	6.37	31.8	0.02	<1	0.5	10.8	<10	<2
1299615	Soil	0.60	5.7	0.7	<0.05	2.2	6.77	28.7	0.02	<1	0.3	11.0	<10	<2
1299616	Soil	0.61	5.6	0.3	<0.05	2.7	6.82	26.6	0.04	<1	0.3	9.9	<10	<2
1299617	Soil	0.56	7.2	0.3	<0.05	1.6	6.85	21.7	0.03	<1	0.6	10.7	<10	<2
1299618	Soil	0.58	9.2	0.1	<0.05	2.5	9.12	17.1	<0.02	<1	0.5	10.0	<10	<2
1299619	Soil	0.28	8.5	0.3	<0.05	0.4	4.47	25.5	<0.02	<1	0.3	11.8	<10	<2
1299620	Soil	0.28	9.3	0.4	<0.05	0.2	5.75	30.8	0.02	<1	0.5	13.1	<10	<2
1299621	Soil	0.36	9.2	0.2	<0.05	1.1	6.94	30.9	<0.02	<1	0.1	13.7	<10	4
1299622	Soil	0.30	10.0	0.2	<0.05	1.3	7.11	51.8	<0.02	<1	0.4	15.1	<10	<2
1299623	Soil	0.31	10.3	0.3	<0.05	0.9	8.48	47.2	<0.02	<1	0.5	15.4	<10	<2
1299624	Soil	0.27	10.3	<0.1	<0.05	0.4	7.51	46.9	0.02	<1	0.4	16.6	<10	<2
1299625	Soil	0.41	10.4	0.2	<0.05	1.2	7.84	35.6	<0.02	<1	0.2	14.9	<10	<2
1299626	Soil	0.46	10.0	0.1	<0.05	2.3	7.89	25.3	<0.02	<1	0.3	11.5	<10	<2
1299627	Soil	0.24	7.5	0.3	<0.05	2.5	11.16	46.4	0.03	<1	0.5	18.4	<10	2
1299628	Soil	0.37	8.1	0.4	<0.05	0.3	3.21	28.0	0.04	<1	0.2	9.5	<10	<2
1299629	Soil	0.14	8.4	<0.1	<0.05	1.0	7.46	10.1	<0.02	<1	0.7	3.1	<10	3
1299630	Soil	0.29	7.8	0.3	<0.05	1.4	5.60	19.4	0.03	<1	0.8	10.9	<10	3
1299631	Soil	0.36	9.5	0.3	<0.05	1.1	7.61	26.8	<0.02	<1	0.9	12.8	<10	<2
1299632	Soil	0.33	10.4	0.2	<0.05	0.7	7.45	34.8	<0.02	<1	0.9	16.5	<10	<2
1299633	Soil	0.29	12.2	0.6	<0.05	0.8	7.19	38.8	<0.02	<1	0.5	16.0	<10	<2
1299634	Soil	0.30	10.5	0.3	<0.05	0.4	6.87	41.8	<0.02	<1	0.3	17.4	<10	3
1299635	Soil	0.35	5.5	0.2	<0.05	1.3	7.24	34.0	<0.02	<1	0.2	10.1	<10	<2
1299636	Soil	0.72	8.7	0.2	<0.05	0.9	5.05	26.8	<0.02	<1	0.5	12.8	<10	<2
1299637	Soil	0.71	6.7	0.1	<0.05	2.2	7.52	14.1	<0.02	<1	0.6	8.6	<10	<2
1299638	Soil	0.48	5.6	<0.1	<0.05	1.5	5.94	20.8	<0.02	<1	0.3	10.1	<10	3
1299639	Soil	0.35	3.6	<0.1	<0.05	1.2	3.38	11.6	<0.02	<1	0.4	6.8	<10	<2



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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.1	0.01	0.02	0.02	0.02	2	0.01
1299640	Soil	0.84	25.73	14.32	84.4	759	458.2	29.5	411	2.87	260.9	0.5	45.5	4.9	20.7	0.46	12.53	0.14	30	0.35
1299641	Soil	0.96	19.55	10.86	62.0	293	402.9	25.4	503	2.72	93.5	1.4	5.0	1.6	14.0	0.31	3.35	0.20	32	0.22
1299642	Soil	0.71	15.92	7.35	45.0	154	855.0	60.4	645	4.10	110.3	0.4	7.7	3.0	7.2	0.26	4.72	0.11	39	0.09
1299643	Soil	1.11	21.77	22.54	60.7	762	748.7	52.2	936	4.71	222.1	0.6	6.2	2.3	12.8	0.76	24.09	0.14	38	0.20
1299644	Soil	0.92	10.51	8.88	54.7	33	208.4	21.2	355	2.65	58.9	0.4	4.0	2.7	8.3	0.27	2.34	0.15	37	0.08
1299645	Soil	0.81	16.77	10.44	38.6	129	800.3	74.3	792	3.55	299.5	0.4	10.6	2.8	7.4	0.20	4.16	0.12	32	0.10
1299646	Soil	1.70	42.10	15.22	91.9	653	360.5	29.9	620	3.43	349.1	1.0	43.3	6.7	20.5	0.42	8.37	0.21	31	0.27
1299647	Soil	2.08	53.63	26.76	147.8	691	146.4	32.1	1228	5.66	604.0	1.7	48.0	7.0	22.9	0.88	10.01	0.30	22	0.38
1299648	Soil	1.68	33.10	19.09	62.3	999	61.2	36.5	2577	4.60	507.5	1.4	50.4	2.2	29.6	0.51	6.82	0.32	20	0.59
1299649	Soil	2.53	62.46	37.51	121.0	1246	145.9	24.1	663	7.42	1033	2.4	83.1	4.0	22.4	0.54	19.27	0.61	25	0.33
1299650	Soil	4.91	60.33	20.68	120.8	618	39.7	10.2	377	2.76	74.1	1.9	10.2	7.7	27.5	0.56	9.36	0.29	31	0.23
1299651	Soil	2.01	19.44	10.02	98.9	129	40.8	9.2	340	2.11	39.1	0.8	7.4	2.2	19.3	0.74	4.05	0.24	36	0.24
1299652	Soil	2.45	21.36	14.05	122.0	205	55.2	14.1	658	2.50	106.4	0.8	16.4	0.9	24.9	3.73	5.03	0.30	30	0.31
1299653	Soil	2.53	27.40	15.72	118.5	271	71.6	12.1	424	2.69	75.9	0.9	8.7	2.6	21.5	0.77	6.20	0.31	40	0.24
1299654	Soil	1.51	26.89	20.07	119.6	233	102.8	20.4	823	3.63	156.0	1.4	7.8	2.3	14.1	1.33	4.07	0.28	24	0.26
1299655	Soil	8.60	33.85	81.68	535.3	415	62.7	17.9	436	3.93	27.3	4.0	2.2	13.4	25.5	3.99	0.54	0.70	30	0.44
1299656	Soil	1.55	24.55	18.42	78.3	216	23.9	15.3	763	3.92	18.2	1.7	2.0	7.2	25.4	0.27	0.65	0.17	49	0.56
1299657	Soil	2.48	25.87	22.61	143.7	199	29.9	13.3	611	4.79	18.0	2.3	0.6	8.5	21.5	0.31	0.41	0.22	65	0.46
1299658	Soil	3.28	35.67	28.62	186.3	252	33.7	15.3	334	4.56	35.8	3.0	1.6	10.4	24.3	0.52	0.54	0.32	63	0.47
1299659	Soil	1.84	51.42	32.31	168.5	130	63.4	30.5	412	4.78	16.5	2.4	1.7	13.4	13.7	0.28	0.36	0.39	46	0.26
1299660	Soil	0.90	109.7	7.92	84.7	444	109.8	31.5	1191	4.88	111.4	0.5	15.5	2.8	32.0	0.12	18.33	0.13	62	0.89
1299661	Soil	1.48	113.8	19.88	87.3	396	35.4	19.1	1630	2.42	135.0	1.6	22.7	12.9	64.0	0.16	7.90	0.40	6	0.40
1299662	Soil	1.23	90.08	19.19	87.2	1771	94.6	25.0	1628	3.83	758.9	1.3	114.6	5.5	54.5	0.22	21.48	0.29	27	0.44
1299663	Soil	1.45	87.36	19.30	99.0	813	93.1	19.1	886	3.74	282.6	1.1	27.7	5.3	30.5	0.23	16.18	0.25	31	0.27
1299664	Soil	2.15	74.00	18.42	104.9	603	162.1	22.3	1019	3.63	244.1	1.0	17.4	5.8	34.0	0.38	13.47	0.23	28	0.48
1299665	Soil	1.98	39.05	24.08	124.1	233	36.8	16.3	748	4.13	41.1	1.7	3.1	6.4	20.5	0.28	1.57	0.30	41	0.40
1299666	Soil	0.94	27.91	28.32	69.9	190	22.7	9.9	501	2.80	20.7	1.1	1.0	5.8	30.3	0.20	0.45	0.19	28	0.71
1299667	Soil	1.49	48.12	16.51	108.8	172	59.4	25.7	918	3.94	77.5	1.3	4.4	11.5	20.3	0.34	0.52	0.41	26	0.35
1299668	Soil	1.57	19.99	18.06	88.3	53	28.0	10.0	388	3.19	35.6	0.9	4.7	2.4	6.8	0.21	0.77	0.27	35	0.09
1299669	Soil	1.25	31.56	18.05	94.3	65	33.5	18.3	985	4.00	13.1	1.0	1.4	9.5	10.1	0.11	0.32	0.35	34	0.15



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Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	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	
1299640	Soil	13.2	259.1	2.70	110.7	0.023	4	0.71	0.006	0.07	0.4	4.3	0.08	<0.02	44	0.3	<0.02	1.9	1.73	0.1	0.04
1299641	Soil	11.2	375.5	1.73	188.3	0.013	3	0.92	0.003	0.06	0.6	4.3	0.08	0.07	60	0.7	<0.02	2.5	2.54	<0.1	0.04
1299642	Soil	8.2	640.3	4.42	122.7	0.016	7	1.01	0.005	0.05	0.5	6.3	0.08	0.02	39	0.4	0.06	2.4	2.22	<0.1	0.06
1299643	Soil	8.1	563.2	3.84	141.2	0.017	5	0.92	0.006	0.06	0.4	4.9	0.09	0.03	45	0.4	<0.02	2.1	1.32	<0.1	<0.02
1299644	Soil	11.1	283.1	2.01	120.8	0.026	4	0.86	0.004	0.05	0.2	2.4	0.06	<0.02	<5	0.7	<0.02	2.6	1.34	<0.1	<0.02
1299645	Soil	8.7	623.2	7.70	129.1	0.009	10	0.93	0.002	0.04	0.3	4.3	0.10	<0.02	16	0.3	<0.02	2.3	3.28	<0.1	<0.02
1299646	Soil	20.1	233.5	1.10	164.5	0.013	3	0.85	0.004	0.07	0.5	4.3	0.09	<0.02	67	0.5	<0.02	2.2	2.02	<0.1	0.06
1299647	Soil	15.8	58.2	0.34	165.4	0.002	3	0.62	0.002	0.05	0.5	5.1	0.09	0.03	47	1.2	<0.02	1.5	1.93	<0.1	0.06
1299648	Soil	9.2	34.9	0.22	321.0	0.004	2	0.68	0.002	0.05	0.4	3.3	0.13	0.08	53	0.7	<0.02	2.0	1.82	<0.1	0.03
1299649	Soil	13.2	34.0	0.32	197.1	0.004	1	0.69	0.003	0.06	0.4	5.1	0.12	0.04	48	0.9	0.14	1.8	2.27	0.2	0.03
1299650	Soil	16.3	22.4	0.31	154.0	0.026	3	0.69	0.005	0.07	0.3	2.4	0.10	0.03	64	1.3	<0.02	1.9	1.68	<0.1	0.06
1299651	Soil	15.5	30.8	0.46	173.3	0.014	2	0.94	0.004	0.09	0.2	1.6	0.09	<0.02	30	0.5	<0.02	3.0	0.91	<0.1	<0.02
1299652	Soil	15.1	32.5	0.44	174.0	0.009	3	0.94	0.007	0.13	0.3	1.4	0.08	0.04	31	0.7	0.02	3.4	1.35	<0.1	<0.02
1299653	Soil	20.6	45.3	0.55	367.0	0.010	2	1.26	0.005	0.08	0.3	2.2	0.12	0.02	56	0.7	0.02	3.9	1.31	<0.1	<0.02
1299654	Soil	16.9	101.9	0.66	79.9	0.009	1	0.68	0.003	0.10	0.3	2.3	0.06	0.04	18	0.4	<0.02	2.2	1.69	<0.1	<0.02
1299655	Soil	38.5	10.6	0.32	57.2	0.012	2	0.68	0.003	0.07	0.1	2.4	0.08	0.02	16	2.1	0.03	2.2	1.78	<0.1	0.05
1299656	Soil	39.5	19.1	0.56	120.9	0.016	2	1.19	0.003	0.12	0.1	5.1	0.09	0.05	30	0.9	<0.02	4.1	3.44	<0.1	0.04
1299657	Soil	36.5	17.4	0.64	183.5	0.016	2	1.49	0.001	0.08	0.1	5.4	0.08	0.04	28	0.9	0.05	5.1	2.83	<0.1	0.10
1299658	Soil	38.2	21.6	0.67	104.4	0.011	2	1.50	0.001	0.08	0.1	6.2	0.06	0.03	16	1.1	0.05	5.2	3.66	<0.1	0.13
1299659	Soil	47.2	47.3	0.95	96.5	0.003	<1	2.06	<0.001	0.05	<0.1	5.1	0.05	0.05	19	0.8	0.04	6.1	3.70	<0.1	0.16
1299660	Soil	11.7	99.9	1.99	246.7	0.003	4	1.92	<0.001	0.09	0.8	14.0	0.11	0.03	61	0.6	0.04	4.0	14.40	<0.1	0.05
1299661	Soil	19.3	8.1	0.19	418.9	<0.001	2	0.23	0.002	0.09	0.3	2.1	0.10	0.10	36	0.6	0.15	0.7	3.79	<0.1	0.08
1299662	Soil	14.3	38.0	0.67	341.6	0.002	4	0.68	0.002	0.08	0.4	5.9	0.11	0.04	35	0.7	0.05	1.9	5.34	<0.1	0.12
1299663	Soil	17.0	44.3	0.66	180.9	0.004	3	0.70	0.003	0.08	0.4	5.5	0.08	0.03	29	0.6	0.09	1.9	3.64	<0.1	0.05
1299664	Soil	16.4	76.6	1.39	167.6	0.006	2	0.61	0.002	0.06	0.4	4.7	0.08	0.04	43	0.7	0.05	1.9	2.91	<0.1	0.06
1299665	Soil	38.0	28.0	0.68	180.6	0.007	1	1.54	0.002	0.06	0.1	4.0	0.05	0.06	31	0.8	0.02	5.1	1.62	<0.1	0.12
1299666	Soil	30.7	24.6	0.58	397.4	0.002	1	1.41	0.002	0.12	<0.1	2.2	0.09	0.07	32	0.5	0.03	3.8	1.90	<0.1	0.08
1299667	Soil	43.8	27.1	0.52	110.8	0.005	<1	1.19	0.002	0.12	0.2	3.4	0.07	0.08	30	0.5	0.03	3.9	5.72	<0.1	0.09
1299668	Soil	29.8	28.7	0.44	91.7	0.017	<1	1.05	0.002	0.06	0.2	1.5	0.07	0.03	32	0.4	0.04	4.7	1.53	<0.1	0.02
1299669	Soil	42.9	31.5	0.76	117.0	0.008	<1	1.73	0.002	0.07	0.2	3.0	0.04	0.03	35	0.4	0.04	5.7	2.02	<0.1	0.08

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.



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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299640	Soil	0.32	5.7	<0.1	<0.05	1.6	6.42	26.6	<0.02	<1	0.2	9.0	<10	5
1299641	Soil	0.47	10.1	0.2	<0.05	1.5	8.12	20.9	<0.02	<1	0.3	11.0	<10	<2
1299642	Soil	0.15	4.6	0.3	<0.05	1.2	3.76	18.5	0.03	<1	0.2	14.4	<10	<2
1299643	Soil	0.28	6.1	0.5	<0.05	0.7	4.34	18.1	0.02	<1	0.3	11.0	<10	5
1299644	Soil	0.38	7.9	0.3	<0.05	0.4	2.35	22.6	<0.02	<1	0.2	11.2	<10	<2
1299645	Soil	0.11	5.6	<0.1	<0.05	0.8	2.61	19.1	<0.02	<1	0.3	13.9	<10	<2
1299646	Soil	0.33	6.4	0.3	<0.05	2.2	8.21	39.2	<0.02	<1	0.4	11.1	<10	3
1299647	Soil	0.24	6.6	<0.1	<0.05	2.5	10.35	32.2	0.03	<1	0.5	4.6	<10	<2
1299648	Soil	0.31	6.0	<0.1	<0.05	0.9	8.28	19.7	0.02	<1	0.7	4.9	<10	<2
1299649	Soil	0.28	7.3	0.4	<0.05	1.2	11.93	24.8	<0.02	<1	0.5	6.1	<10	<2
1299650	Soil	0.26	6.7	0.3	<0.05	6.3	7.75	31.6	0.03	2	0.6	8.1	12	<2
1299651	Soil	0.29	9.1	0.3	<0.05	0.2	5.56	32.1	0.03	<1	0.2	13.8	<10	<2
1299652	Soil	0.33	12.1	0.7	<0.05	0.3	4.18	28.7	0.05	2	0.3	10.6	<10	<2
1299653	Soil	0.46	10.4	0.6	<0.05	0.5	7.56	37.4	0.02	2	0.6	17.4	<10	<2
1299654	Soil	0.16	8.4	0.5	<0.05	0.6	9.20	33.9	<0.02	<1	0.5	12.6	<10	<2
1299655	Soil	0.28	5.4	0.2	<0.05	4.3	13.56	69.5	<0.02	4	0.5	7.0	<10	<2
1299656	Soil	0.48	11.4	0.5	<0.05	2.0	20.09	64.2	0.03	<1	0.6	12.7	<10	<2
1299657	Soil	0.55	9.9	0.5	<0.05	3.4	16.61	68.0	0.03	1	0.4	17.3	<10	<2
1299658	Soil	0.31	8.3	0.3	<0.05	5.6	17.30	70.2	0.03	1	0.4	17.5	<10	<2
1299659	Soil	0.42	6.9	0.2	<0.05	8.1	13.80	85.0	0.04	<1	0.4	30.2	<10	<2
1299660	Soil	0.06	13.9	0.4	<0.05	1.4	12.20	24.6	0.04	<1	0.6	22.7	<10	<2
1299661	Soil	0.71	6.9	3.2	<0.05	7.1	10.15	42.2	<0.02	<1	0.4	3.3	<10	<2
1299662	Soil	0.13	7.7	0.6	<0.05	4.5	9.12	30.5	0.03	<1	0.4	7.1	<10	<2
1299663	Soil	0.12	7.2	1.0	<0.05	3.6	8.16	35.0	0.03	1	0.5	10.4	<10	<2
1299664	Soil	0.09	5.2	0.9	<0.05	3.7	7.52	34.1	0.02	2	0.5	7.1	<10	<2
1299665	Soil	0.26	6.3	1.3	<0.05	4.8	13.66	64.1	<0.02	1	0.3	18.1	<10	<2
1299666	Soil	0.20	8.7	0.4	<0.05	3.0	9.90	50.2	0.02	<1	0.5	13.1	<10	<2
1299667	Soil	0.17	7.7	0.6	<0.05	3.8	11.87	77.7	<0.02	<1	0.4	14.0	<10	<2
1299668	Soil	0.32	8.4	0.7	<0.05	0.2	5.81	58.5	<0.02	<1	0.3	10.1	<10	<2
1299669	Soil	0.20	6.1	1.2	<0.05	2.7	7.45	88.7	0.02	<1	0.4	20.7	<10	<2



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	ppb	ppm	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	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1299670	Soil	1.32	22.49	44.03	97.9	89	29.6	13.2	636	3.53	39.0	1.1	2.0	9.9	9.5	0.20	0.58	0.26	31	0.15	0.079	
1299671	Soil	2.58	36.08	46.84	140.2	195	44.1	19.8	794	4.58	61.4	1.4	1.9	9.5	14.7	0.54	1.03	0.25	39	0.35	0.095	
1299672	Soil	5.21	32.85	187.6	133.7	484	35.8	14.2	454	4.20	25.1	1.7	1.9	8.5	12.3	0.30	0.68	0.45	39	0.23	0.083	
1299673	Soil	1.66	36.79	47.16	120.7	226	41.7	18.4	508	4.07	34.1	1.2	1.3	11.1	13.4	0.26	0.48	0.27	54	0.26	0.097	
1299674	Soil	0.82	34.75	10.38	75.8	393	698.5	42.9	1038	3.90	70.1	0.7	5.1	2.5	18.9	0.28	5.76	0.13	45	0.39	0.089	
1299675	Soil	0.70	15.13	7.79	52.5	75	1222	68.0	834	3.28	26.7	0.7	1.6	1.7	8.9	0.29	1.04	0.11	26	0.14	0.072	
1299676	Soil	0.60	13.77	11.74	42.8	58	410.2	25.5	349	2.50	40.4	1.0	1.4	3.3	11.2	0.19	0.54	0.20	32	0.16	0.047	
1299677	Soil	0.93	13.43	11.11	47.9	44	488.6	31.7	409	2.91	34.0	0.9	2.6	2.7	9.0	0.22	0.62	0.18	35	0.11	0.056	
1299678	Soil	1.00	15.62	10.50	44.6	31	797.4	46.4	550	3.66	21.0	0.8	1.1	2.6	6.8	0.18	0.76	0.16	38	0.14	0.043	
1299679	Soil	0.81	16.13	8.96	47.7	55	686.0	45.7	593	3.28	25.0	0.7	1.3	1.7	9.2	0.18	1.15	0.21	34	0.29	0.071	
1299680	Soil	0.82	13.51	9.03	53.8	77	1104	85.9	1302	4.37	36.9	0.7	1.2	1.3	9.6	0.41	0.46	0.11	31	0.24	0.149	
1299681	Soil	0.96	25.66	10.03	73.5	266	1310	59.3	663	4.97	127.7	0.8	7.0	2.6	14.4	0.31	20.08	0.15	48	0.16	0.062	
1299682	Soil	0.53	53.76	4.45	47.9	174	598.8	34.9	604	3.86	54.9	0.4	4.1	0.8	33.9	0.17	6.90	0.06	61	0.96	0.085	
1299683	Soil	1.02	42.74	13.03	65.3	201	221.6	26.3	870	4.12	71.2	0.7	17.2	2.4	10.0	0.20	16.25	0.24	49	0.13	0.062	
1299684	Soil	1.08	118.4	12.99	88.2	752	155.0	27.8	1318	5.47	131.0	0.7	12.1	2.4	14.7	0.15	9.48	0.16	72	0.41	0.064	
1299685	Soil	0.71	92.26	8.48	70.6	347	165.3	17.6	655	3.67	55.0	0.8	6.4	2.7	14.2	0.14	5.60	0.14	63	0.33	0.059	
1299686	Soil	0.80	71.81	9.60	66.3	338	128.8	18.6	680	3.55	55.9	0.8	5.0	2.0	21.8	0.17	5.74	0.13	55	0.61	0.069	
1299687	Soil	0.81	61.16	11.40	72.1	307	147.5	19.0	785	3.93	55.0	1.1	3.4	3.4	14.7	0.16	4.47	0.17	70	0.30	0.064	
1299688	Soil	0.79	39.29	15.03	65.8	671	191.8	16.9	445	3.11	147.9	1.0	18.7	5.7	13.2	0.21	3.92	0.23	41	0.24	0.068	
1299689	Soil	1.13	54.86	18.91	77.4	1190	199.9	19.9	535	3.42	177.5	1.4	18.7	6.6	14.6	0.29	5.20	0.23	39	0.25	0.081	
1299690	Soil	1.38	62.21	19.67	85.0	1517	146.9	21.4	657	4.13	440.1	1.1	58.7	7.8	15.0	0.27	5.88	0.24	38	0.23	0.095	
1299691	Soil	1.46	57.24	16.21	89.4	1106	173.0	27.6	691	4.32	353.7	1.2	40.0	7.9	16.9	0.34	5.53	0.20	33	0.27	0.102	
1299692	Soil	1.07	7.82	14.78	40.3	108	21.7	5.5	211	1.77	20.9	0.9	4.1	0.6	9.8	0.16	0.35	0.25	28	0.17	0.061	
1299693	Soil	1.10	12.46	20.62	52.9	54	24.3	8.3	376	2.06	18.4	1.1	2.4	6.2	14.2	0.28	0.48	0.22	31	0.25	0.099	
1299694	Soil	1.03	11.85	13.50	47.0	34	18.4	6.0	211	2.16	40.8	0.8	2.5	1.3	10.0	0.23	0.48	0.24	29	0.17	0.051	



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Project: Rivier  
 Report Date: November 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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	
1299670	Soil	42.6	28.5	0.54	170.5	0.007	1	1.33	<0.001	0.11	0.2	2.6	0.08	<0.02	23	0.2	0.03	4.2	3.45	<0.1	0.02
1299671	Soil	43.4	26.1	0.42	186.7	0.005	<1	1.00	0.002	0.12	0.3	5.0	0.11	0.05	52	0.9	0.03	3.2	3.77	<0.1	<0.02
1299672	Soil	47.2	20.5	0.43	143.4	0.005	2	1.11	0.001	0.09	0.2	3.2	0.16	0.03	43	1.1	0.08	3.9	3.32	<0.1	0.08
1299673	Soil	41.9	39.7	0.87	104.6	0.007	<1	1.52	<0.001	0.10	0.2	5.5	0.06	<0.02	15	0.7	<0.02	5.3	2.91	<0.1	0.03
1299674	Soil	11.3	557.4	3.97	165.9	0.006	6	1.13	0.003	0.08	0.6	7.5	0.13	0.08	271	0.4	<0.02	2.9	3.28	<0.1	0.05
1299675	Soil	7.3	1166	10.59	102.3	0.012	23	0.69	0.005	0.06	1.0	4.3	0.06	0.05	38	0.4	<0.02	1.9	0.91	<0.1	0.03
1299676	Soil	11.7	404.0	4.11	132.4	0.022	5	0.95	0.007	0.06	0.5	4.3	0.07	0.03	20	0.4	0.04	2.7	1.00	<0.1	0.04
1299677	Soil	11.9	577.1	5.00	96.6	0.023	7	0.88	0.007	0.07	0.7	4.1	0.07	0.03	24	0.3	0.04	2.6	1.03	<0.1	0.04
1299678	Soil	11.1	732.3	6.87	144.1	0.016	7	0.98	0.005	0.04	0.8	5.7	0.06	0.03	23	0.2	0.06	2.6	0.70	<0.1	0.03
1299679	Soil	8.7	892.8	5.79	125.8	0.013	10	0.78	0.005	0.05	1.0	4.9	0.06	0.07	35	0.5	<0.02	2.3	0.94	<0.1	0.03
1299680	Soil	4.4	1443	9.97	183.8	0.007	22	0.70	0.005	0.07	0.4	6.6	0.05	0.13	41	0.7	<0.02	2.0	0.59	<0.1	0.05
1299681	Soil	12.9	605.8	3.28	130.6	0.022	5	1.10	0.006	0.05	0.6	7.6	0.11	0.04	60	0.5	0.03	3.2	2.50	<0.1	0.04
1299682	Soil	5.1	646.0	3.81	184.9	0.010	11	1.45	0.004	0.04	0.2	10.6	0.08	0.14	35	0.7	0.03	3.4	3.89	<0.1	0.02
1299683	Soil	11.6	291.4	1.73	160.0	0.015	4	1.09	0.002	0.06	0.4	6.4	0.06	0.03	40	0.5	0.06	2.9	2.63	<0.1	0.03
1299684	Soil	13.5	127.6	1.41	211.2	0.003	3	1.74	<0.001	0.07	0.2	11.7	0.10	0.03	49	0.7	0.07	4.3	6.52	<0.1	0.04
1299685	Soil	11.6	120.9	1.37	163.8	0.015	2	1.51	0.003	0.07	0.3	8.8	0.05	0.03	37	0.6	0.04	4.0	4.47	<0.1	0.05
1299686	Soil	10.1	130.0	1.42	177.9	0.011	3	1.39	0.002	0.06	0.3	7.4	0.05	0.06	46	0.6	0.03	3.6	3.59	<0.1	0.03
1299687	Soil	14.4	176.0	1.62	227.0	0.018	3	1.62	0.002	0.06	0.3	9.3	0.06	0.03	47	0.4	0.04	4.6	3.69	<0.1	0.05
1299688	Soil	20.3	211.1	1.75	172.9	0.007	3	0.97	0.003	0.08	0.5	4.9	0.07	0.03	29	0.3	<0.02	2.8	1.88	<0.1	0.10
1299689	Soil	23.6	199.1	1.66	175.8	0.013	3	0.99	0.003	0.10	0.4	5.2	0.08	0.02	35	0.3	0.05	2.9	2.45	<0.1	0.10
1299690	Soil	26.4	145.1	1.01	144.3	0.010	2	0.81	0.002	0.07	0.4	5.1	0.10	<0.02	32	0.5	0.06	2.5	2.33	<0.1	0.07
1299691	Soil	24.3	149.1	1.11	114.8	0.007	2	0.71	0.001	0.05	0.3	4.3	0.07	<0.02	24	0.4	0.05	2.4	1.78	<0.1	0.04
1299692	Soil	17.1	29.8	0.30	167.9	0.010	<1	0.90	0.002	0.11	0.2	0.7	0.12	0.03	21	0.2	<0.02	3.2	2.24	<0.1	<0.02
1299693	Soil	20.9	22.2	0.37	76.5	0.037	<1	0.89	0.004	0.13	0.3	1.7	0.12	<0.02	23	0.3	0.02	2.9	1.75	<0.1	<0.02
1299694	Soil	16.4	23.7	0.36	64.2	0.012	<1	1.13	0.003	0.09	0.2	0.9	0.13	<0.02	15	0.3	<0.02	3.6	1.70	<0.1	<0.02



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Project: Rivier  
 Report Date: November 21, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001712.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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	
1299670	Soil	0.15	8.9	0.4	<0.05	1.1	8.89	85.5	0.02	<1	0.4	17.8	<10	<2
1299671	Soil	0.17	7.7	0.5	<0.05	1.5	16.51	79.1	0.03	<1	0.8	12.8	<10	<2
1299672	Soil	0.18	8.2	0.5	<0.05	2.7	13.15	78.9	0.03	<1	0.6	12.2	<10	<2
1299673	Soil	0.11	6.5	0.4	<0.05	2.2	13.18	74.3	0.03	<1	0.4	18.0	<10	<2
1299674	Soil	0.31	8.7	0.3	<0.05	1.7	7.13	23.2	0.02	<1	0.4	16.8	<10	<2
1299675	Soil	0.22	7.2	0.6	<0.05	1.3	5.31	15.5	<0.02	<1	0.4	6.2	<10	<2
1299676	Soil	0.45	9.6	0.6	<0.05	1.5	4.51	24.5	<0.02	<1	0.4	8.5	<10	<2
1299677	Soil	0.34	8.9	0.3	<0.05	1.1	4.18	24.0	<0.02	<1	0.3	8.5	<10	2
1299678	Soil	0.21	7.2	0.4	<0.05	1.1	4.75	22.4	0.02	<1	0.2	6.9	<10	3
1299679	Soil	0.38	7.6	0.4	<0.05	1.1	3.70	17.0	<0.02	<1	0.2	7.4	<10	4
1299680	Soil	0.19	8.2	1.1	<0.05	1.7	3.72	10.6	<0.02	<1	0.2	4.3	<10	3
1299681	Soil	0.38	8.0	0.5	<0.05	1.3	7.74	23.4	0.02	<1	0.7	11.4	<10	2
1299682	Soil	0.37	5.1	0.7	<0.05	0.8	7.62	8.9	0.02	<1	0.3	17.5	<10	2
1299683	Soil	0.25	7.6	0.5	<0.05	1.3	5.94	25.0	<0.02	<1	0.6	11.8	<10	<2
1299684	Soil	0.16	10.9	0.5	<0.05	1.4	20.24	25.4	0.05	<1	0.6	18.0	11	<2
1299685	Soil	0.37	7.8	1.0	<0.05	1.5	12.44	22.4	0.02	<1	0.4	17.1	<10	<2
1299686	Soil	0.35	6.9	0.7	<0.05	1.5	9.71	20.0	0.03	<1	0.5	14.4	<10	<2
1299687	Soil	0.39	9.4	1.1	<0.05	2.2	12.29	26.7	0.03	<1	0.7	16.4	<10	<2
1299688	Soil	0.35	7.7	0.5	<0.05	3.1	9.21	40.7	0.03	<1	0.4	11.7	<10	<2
1299689	Soil	0.35	9.2	0.6	<0.05	3.2	11.58	47.5	0.03	<1	0.4	13.6	<10	<2
1299690	Soil	0.27	7.5	0.3	<0.05	2.9	10.95	53.5	0.04	<1	0.5	9.8	<10	<2
1299691	Soil	0.16	5.3	0.4	<0.05	3.0	10.49	49.1	0.03	<1	0.4	10.2	<10	<2
1299692	Soil	0.38	12.6	0.5	<0.05	<0.1	4.62	33.8	<0.02	<1	0.3	12.5	<10	<2
1299693	Soil	0.74	12.7	0.8	<0.05	1.2	7.52	45.7	<0.02	<1	0.3	15.9	<10	<2
1299694	Soil	0.43	12.1	0.5	<0.05	<0.1	4.46	33.6	0.03	<1	0.4	17.4	<10	<2



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Project: Rivier  
Report Date: November 21, 2011

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QUALITY CONTROL REPORT

WHI11001712.1

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																					
1299052	Soil	1.45	28.35	14.83	70.4	176	56.0	13.7	433	2.88	33.5	1.0	5.8	5.1	12.3	0.27	1.46	0.19	40	0.17	0.069
REP 1299052	QC	1.45	28.30	14.76	71.3	175	56.3	14.1	409	2.91	33.4	1.2	4.8	5.2	12.4	0.30	1.49	0.19	41	0.17	0.072
1299068	Soil	0.66	19.16	7.29	48.9	206	843.1	34.2	381	3.04	57.4	0.7	3.7	2.4	10.7	0.23	4.66	0.14	32	0.16	0.042
REP 1299068	QC	0.66	19.88	7.63	52.9	222	847.2	35.3	391	3.06	58.2	0.7	5.6	2.5	11.5	0.20	4.86	0.21	34	0.17	0.043
1299074	Soil	0.73	20.97	7.06	59.0	246	1042	48.2	528	3.60	89.4	0.8	8.0	2.0	11.2	0.27	9.40	0.15	41	0.18	0.053
REP 1299074	QC	0.66	21.18	6.86	60.1	241	1024	48.0	508	3.56	87.5	0.7	5.4	1.9	10.7	0.22	9.13	0.14	39	0.17	0.050
1299407	Soil	0.31	70.54	6.46	54.5	882	185.3	39.5	1562	5.67	97.3	0.3	9.6	1.4	13.2	0.15	7.38	0.04	135	0.36	0.044
REP 1299407	QC	0.29	74.90	6.79	57.6	898	192.1	40.2	1629	5.92	102.7	0.3	13.4	1.4	13.9	0.11	7.82	0.04	140	0.37	0.049
1299411	Soil	0.40	11.86	9.14	40.8	100	349.0	17.6	239	1.96	16.5	0.8	2.5	3.1	9.9	0.20	1.10	0.21	25	0.12	0.053
REP 1299411	QC	0.44	11.80	9.22	39.7	106	343.6	17.4	226	1.90	15.8	0.8	3.0	2.9	9.4	0.19	1.08	0.19	24	0.12	0.053
1299429	Soil	0.67	23.10	12.32	43.1	484	985.0	61.6	1224	4.10	300.1	0.8	7.6	0.8	24.5	0.38	7.05	0.17	27	0.55	0.143
REP 1299429	QC	0.74	22.74	12.34	42.4	482	949.2	61.2	1203	3.97	299.7	0.8	9.1	0.8	23.8	0.34	6.97	0.17	26	0.50	0.132
1299470	Soil	0.39	62.43	5.14	68.6	186	193.4	29.1	580	3.74	60.5	0.3	4.1	1.4	12.3	0.18	12.34	0.03	86	0.39	0.076
REP 1299470	QC	0.37	61.41	5.04	70.2	177	188.5	27.8	587	3.69	59.3	0.3	4.3	1.3	12.0	0.20	12.00	0.04	84	0.37	0.071
1299478	Soil	2.14	76.38	22.71	117.6	1125	97.0	18.6	673	3.19	786.0	1.4	85.8	7.9	20.7	0.46	11.18	0.33	17	0.21	0.088
REP 1299478	QC	1.86	73.66	22.52	113.2	1053	94.1	18.7	660	3.10	766.3	1.4	86.3	7.6	20.0	0.45	10.59	0.30	16	0.19	0.083
1299555	Soil	1.10	12.46	12.22	73.9	190	544.2	65.0	930	4.54	48.1	0.5	1.1	1.1	10.9	0.49	5.47	0.24	40	0.18	0.080
REP 1299555	QC	1.14	12.66	12.58	74.6	228	570.9	66.7	962	4.74	48.4	0.5	1.0	1.1	11.8	0.52	5.65	0.25	42	0.19	0.085
1299579	Soil	5.21	90.80	21.62	135.7	692	58.4	11.6	227	3.53	85.8	2.7	9.7	0.9	15.8	0.67	2.03	0.36	23	0.07	0.079
REP 1299579	QC	5.10	89.97	20.68	134.2	685	58.2	11.1	230	3.37	84.5	2.6	9.9	0.8	15.9	0.74	2.07	0.34	22	0.07	0.074
1299583	Soil	0.34	16.70	4.30	46.8	79	2549	106.8	1172	5.81	402.4	0.3	4.0	0.7	45.5	0.26	54.04	0.08	42	1.06	0.040
REP 1299583	QC	0.35	16.78	4.21	46.4	96	2575	107.7	1183	5.90	415.3	0.3	4.0	0.8	45.2	0.26	52.09	0.13	43	1.08	0.044
1299615	Soil	0.90	19.73	10.06	61.2	212	118.9	11.8	308	2.22	96.0	0.7	20.4	6.0	17.9	0.30	3.45	0.18	31	0.27	0.073
REP 1299615	QC	0.84	19.25	9.58	59.5	197	117.6	11.6	294	2.19	93.6	0.7	10.3	5.7	17.2	0.26	3.32	0.17	31	0.26	0.072
1299633	Soil	0.94	18.80	15.76	72.8	398	79.6	10.5	396	2.62	119.3	1.1	5.7	4.2	15.8	0.27	5.63	0.25	30	0.20	0.077
REP 1299633	QC	1.01	19.17	16.24	70.6	397	81.3	10.8	399	2.61	119.6	1.1	7.5	4.2	15.9	0.27	5.67	0.25	29	0.20	0.077
1299650	Soil	4.91	60.33	20.68	120.8	618	39.7	10.2	377	2.76	74.1	1.9	10.2	7.7	27.5	0.56	9.36	0.29	31	0.23	0.102
REP 1299650	QC	4.59	57.43	18.53	117.3	585	37.6	9.7	363	2.65	68.4	1.7	7.2	7.4	26.0	0.53	8.77	0.25	30	0.22	0.095

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.



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Project: Rivier  
 Report Date: November 21, 2011

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QUALITY CONTROL REPORT

WHI11001712.1

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	
Pulp Duplicates																					
1299052	Soil	28.6	61.8	0.68	190.5	0.032	1	1.35	0.003	0.07	0.2	2.7	0.11	<0.02	30	0.3	<0.02	4.0	1.57	<0.1	<0.02
REP 1299052	QC	28.3	62.5	0.69	192.0	0.031	1	1.36	0.003	0.07	0.3	2.8	0.10	<0.02	35	0.2	0.03	4.1	1.54	<0.1	<0.02
1299068	Soil	9.2	666.8	5.90	122.8	0.016	14	0.89	0.009	0.05	0.6	4.6	0.08	0.03	36	0.2	<0.02	2.3	1.08	<0.1	0.05
REP 1299068	QC	9.8	662.9	6.03	124.2	0.019	13	0.94	0.010	0.05	0.6	5.0	0.09	0.03	38	0.3	<0.02	2.6	1.24	<0.1	0.05
1299074	Soil	10.7	666.6	4.03	121.9	0.019	15	1.01	0.006	0.04	0.5	8.6	0.11	0.04	47	0.3	<0.02	2.7	4.85	<0.1	0.03
REP 1299074	QC	10.1	642.6	3.92	116.9	0.018	15	0.99	0.005	0.04	0.5	7.9	0.10	0.04	55	0.4	0.06	2.6	4.60	<0.1	0.04
1299407	Soil	12.7	283.2	3.52	125.0	<0.001	<1	3.48	<0.001	0.03	0.2	18.9	<0.02	<0.02	31	<0.1	<0.02	7.5	4.63	<0.1	<0.02
REP 1299407	QC	13.4	289.9	3.68	131.2	<0.001	<1	3.70	<0.001	0.03	0.2	18.7	0.02	<0.02	39	0.2	0.03	7.8	4.86	<0.1	<0.02
1299411	Soil	12.2	423.6	2.90	138.4	0.015	5	0.83	0.007	0.08	0.2	3.5	0.10	0.03	23	0.1	<0.02	2.3	1.22	<0.1	0.05
REP 1299411	QC	11.3	404.2	2.77	129.9	0.013	5	0.79	0.007	0.07	0.2	3.2	0.09	0.03	27	0.1	0.02	2.2	1.07	<0.1	0.07
1299429	Soil	5.8	769.0	3.38	222.5	0.006	14	0.59	0.006	0.08	0.5	3.7	0.11	0.15	80	0.3	0.04	1.5	7.84	<0.1	0.02
REP 1299429	QC	5.9	746.3	3.34	212.9	0.006	11	0.56	0.006	0.08	0.5	3.5	0.11	0.14	85	0.3	<0.02	1.5	7.64	<0.1	<0.02
1299470	Soil	7.7	187.2	1.48	124.9	0.036	3	1.65	<0.001	0.05	0.4	13.4	0.07	0.03	28	0.4	<0.02	3.7	4.86	<0.1	0.02
REP 1299470	QC	7.3	184.5	1.45	114.8	0.034	4	1.62	<0.001	0.05	0.4	13.6	0.06	0.03	31	<0.1	<0.02	3.5	4.58	<0.1	<0.02
1299478	Soil	20.7	72.5	0.58	193.7	0.005	1	0.58	0.002	0.07	0.2	2.9	0.07	<0.02	25	0.3	0.06	1.4	2.58	<0.1	0.06
REP 1299478	QC	18.8	71.5	0.56	179.0	0.004	1	0.55	0.002	0.06	0.2	2.9	0.06	<0.02	18	0.2	0.07	1.4	2.28	<0.1	0.08
1299555	Soil	7.1	620.2	3.34	141.5	0.013	5	0.80	0.003	0.04	1.2	3.5	0.05	0.05	31	0.4	0.04	3.2	0.69	<0.1	<0.02
REP 1299555	QC	7.6	630.2	3.47	140.1	0.014	4	0.85	0.003	0.04	1.3	3.8	0.05	0.05	24	0.3	0.05	3.3	0.79	<0.1	<0.02
1299579	Soil	13.7	43.5	0.24	82.9	0.004	<1	0.66	0.003	0.04	0.2	0.8	0.06	0.03	52	1.9	0.14	1.9	1.54	<0.1	<0.02
REP 1299579	QC	13.5	40.3	0.23	76.3	0.004	<1	0.62	0.002	0.04	0.2	0.8	0.06	0.03	52	2.2	0.14	1.9	1.49	<0.1	<0.02
1299583	Soil	2.8	1309	11.31	128.7	0.005	16	0.68	0.003	0.03	1.4	9.2	0.42	0.05	219	0.2	<0.02	1.6	3.94	<0.1	<0.02
REP 1299583	QC	2.8	1314	11.42	129.3	0.005	18	0.69	0.004	0.03	1.4	9.3	0.42	0.05	231	0.1	<0.02	1.5	3.94	<0.1	<0.02
1299615	Soil	15.2	74.1	0.71	151.2	0.041	2	0.82	0.009	0.06	0.4	2.6	0.08	<0.02	50	0.2	<0.02	2.4	0.91	<0.1	0.03
REP 1299615	QC	14.6	72.2	0.70	146.3	0.039	2	0.81	0.009	0.06	0.4	2.5	0.07	<0.02	51	0.2	0.03	2.4	0.86	<0.1	0.04
1299633	Soil	19.3	50.5	0.59	182.5	0.015	1	1.03	0.004	0.11	0.3	2.6	0.11	<0.02	39	0.3	<0.02	2.9	1.57	<0.1	0.03
REP 1299633	QC	18.9	51.2	0.58	185.2	0.015	1	1.02	0.004	0.11	0.3	2.6	0.10	<0.02	30	0.2	<0.02	3.0	1.56	<0.1	<0.02
1299650	Soil	16.3	22.4	0.31	154.0	0.026	3	0.69	0.005	0.07	0.3	2.4	0.10	0.03	64	1.3	<0.02	1.9	1.68	<0.1	0.06
REP 1299650	QC	15.6	21.1	0.29	142.7	0.025	2	0.65	0.005	0.07	0.3	2.3	0.11	0.03	65	1.5	<0.02	1.8	1.59	<0.1	0.09



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Project: Rivier  
 Report Date: November 21, 2011

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QUALITY CONTROL REPORT

WHI11001712.1

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	
Pulp Duplicates														
1299052	Soil	0.49	9.1	0.4	<0.05	0.5	8.49	55.8	0.03	<1	0.5	15.4	<10	<2
REP 1299052	QC	0.47	9.3	0.5	<0.05	0.9	8.95	57.2	<0.02	1	0.4	15.5	<10	<2
1299068	Soil	0.40	5.5	0.3	<0.05	1.6	5.55	16.5	0.02	<1	0.3	10.0	<10	3
REP 1299068	QC	0.39	6.2	0.3	<0.05	1.5	5.68	18.0	<0.02	<1	0.3	9.2	<10	2
1299074	Soil	0.45	6.0	0.3	<0.05	1.3	5.96	19.2	<0.02	2	0.5	16.5	<10	3
REP 1299074	QC	0.43	5.5	0.3	<0.05	1.2	5.80	17.9	<0.02	<1	0.4	16.5	<10	<2
1299407	Soil	0.02	3.8	0.8	<0.05	0.7	9.67	28.0	0.03	1	0.9	61.2	<10	<2
REP 1299407	QC	0.05	3.9	0.6	<0.05	0.8	10.02	29.3	0.04	<1	1.0	63.6	<10	<2
1299411	Soil	0.42	10.6	0.5	<0.05	1.6	4.72	26.7	<0.02	<1	0.2	9.9	<10	<2
REP 1299411	QC	0.42	9.5	0.5	<0.05	1.7	4.59	24.5	<0.02	1	0.4	9.7	<10	<2
1299429	Soil	0.30	7.5	0.7	<0.05	0.8	6.22	13.5	<0.02	<1	0.6	9.7	<10	3
REP 1299429	QC	0.29	7.3	0.7	<0.05	0.8	6.00	14.1	<0.02	<1	0.6	9.2	<10	2
1299470	Soil	1.03	6.7	0.4	<0.05	0.7	10.35	15.5	0.03	<1	0.7	22.5	<10	<2
REP 1299470	QC	0.98	6.3	0.4	<0.05	0.7	9.80	14.4	0.03	<1	0.6	21.1	<10	<2
1299478	Soil	0.21	6.5	0.4	<0.05	3.4	10.11	38.2	0.02	<1	0.2	6.5	<10	3
REP 1299478	QC	0.17	5.6	0.4	<0.05	3.6	10.01	36.0	<0.02	<1	0.2	6.2	<10	<2
1299555	Soil	0.43	7.5	0.5	<0.05	0.6	2.52	16.0	0.02	1	0.3	7.4	<10	<2
REP 1299555	QC	0.46	7.9	0.6	<0.05	0.7	2.46	16.1	<0.02	1	0.3	7.6	<10	<2
1299579	Soil	0.10	4.6	0.5	<0.05	0.1	3.92	25.5	<0.02	<1	0.6	6.4	<10	<2
REP 1299579	QC	0.10	4.4	0.5	<0.05	<0.1	3.97	25.8	0.03	<1	0.5	6.2	<10	<2
1299583	Soil	0.13	4.8	0.8	<0.05	0.6	2.05	5.2	<0.02	<1	1.7	15.6	<10	4
REP 1299583	QC	0.13	5.0	0.7	<0.05	0.6	2.03	5.4	<0.02	<1	2.0	15.4	<10	7
1299615	Soil	0.60	5.7	0.7	<0.05	2.2	6.77	28.7	0.02	<1	0.3	11.0	<10	<2
REP 1299615	QC	0.73	5.5	0.6	<0.05	2.1	6.57	27.5	<0.02	<1	0.4	10.8	<10	<2
1299633	Soil	0.29	12.2	0.6	<0.05	0.8	7.19	38.8	<0.02	<1	0.5	16.0	<10	<2
REP 1299633	QC	0.29	11.9	0.6	<0.05	0.8	7.30	37.3	<0.02	<1	0.5	16.1	<10	<2
1299650	Soil	0.26	6.7	0.3	<0.05	6.3	7.75	31.6	0.03	2	0.6	8.1	12	<2
REP 1299650	QC	0.30	6.5	0.4	<0.05	6.2	7.24	30.8	<0.02	2	0.4	7.4	<10	3

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Project: Rivier  
 Report Date: November 21, 2011

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QUALITY CONTROL REPORT

WHI11001712.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
		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	
1299661	Soil	1.48	113.8	19.88	87.3	396	35.4	19.1	1630	2.42	135.0	1.6	22.7	12.9	64.0	0.16	7.90	0.40	6	0.40	0.089
REP 1299661	QC	1.33	109.2	18.26	81.8	375	34.3	18.7	1616	2.44	128.0	1.5	22.3	12.5	60.6	0.16	7.65	0.39	6	0.38	0.087
1299681	Soil	0.96	25.66	10.03	73.5	266	1310	59.3	663	4.97	127.7	0.8	7.0	2.6	14.4	0.31	20.08	0.15	48	0.16	0.062
REP 1299681	QC	0.98	25.29	9.76	71.3	275	1287	57.3	653	4.91	124.0	0.8	7.6	2.6	14.5	0.32	19.98	0.15	48	0.15	0.060
1299689	Soil	1.13	54.86	18.91	77.4	1190	199.9	19.9	535	3.42	177.5	1.4	18.7	6.6	14.6	0.29	5.20	0.23	39	0.25	0.081
REP 1299689	QC	1.15	55.13	18.89	77.8	1121	204.1	20.3	541	3.52	180.1	1.4	20.4	6.8	14.4	0.26	5.21	0.47	40	0.26	0.082
Reference Materials																					
STD DS8	Standard	13.08	105.4	126.3	308.9	1868	39.4	7.8	619	2.48	24.3	2.8	121.3	6.9	66.5	2.31	5.39	6.64	40	0.73	0.080
STD DS8	Standard	11.58	98.82	122.9	310.3	1862	36.4	6.5	587	2.26	24.3	2.6	129.1	6.0	62.0	2.23	5.00	5.99	37	0.67	0.079
STD DS8	Standard	14.16	116.8	127.8	317.1	1814	41.6	8.1	617	2.63	24.6	2.9	118.1	7.0	65.0	2.31	5.79	6.60	43	0.72	0.076
STD DS8	Standard	12.24	109.7	128.4	315.7	1795	42.4	7.6	588	2.40	25.1	2.9	103.7	6.7	61.2	2.44	5.57	7.04	39	0.68	0.081
STD DS8	Standard	11.93	99.31	110.2	279.3	1537	34.7	6.9	548	2.18	22.3	2.4	93.1	5.9	59.6	2.07	4.98	5.80	37	0.63	0.071
STD DS8	Standard	12.98	109.3	118.8	322.1	1730	37.0	7.4	589	2.41	25.3	2.7	127.1	6.5	65.8	2.28	5.47	6.44	37	0.69	0.078
STD DS8	Standard	12.86	103.5	119.1	283.3	1683	36.6	7.0	584	2.41	21.8	2.8	111.7	6.8	61.3	1.96	5.23	6.50	39	0.65	0.075
STD DS8	Standard	10.82	95.42	110.3	282.0	1577	33.9	6.1	527	2.20	22.5	2.4	95.2	5.9	58.3	2.11	4.87	6.11	35	0.62	0.071
STD DS8	Standard	13.08	109.1	133.0	313.8	1917	39.4	7.6	612	2.51	25.5	2.7	136.0	6.6	62.4	2.29	5.16	6.22	42	0.71	0.080
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<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
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	0.2	<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	<0.01	<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
BLK	Blank	<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
BLK	Blank	<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
BLK	Blank	<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
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	3.6	<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	<0.01	<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



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Project: Rivier  
 Report Date: November 21, 2011

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QUALITY CONTROL REPORT

WHI11001712.1

		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 Ti 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
1299661	Soil	19.3	8.1	0.19	418.9	<0.001	2	0.23	0.002	0.09	0.3	2.1	0.10	0.10	36	0.6	0.15	0.7	3.79	<0.1	0.08
REP 1299661	QC	17.2	6.9	0.18	378.2	<0.001	2	0.21	0.002	0.09	0.3	1.9	0.09	0.11	25	0.5	0.17	0.7	3.56	<0.1	0.11
1299681	Soil	12.9	605.8	3.28	130.6	0.022	5	1.10	0.006	0.05	0.6	7.6	0.11	0.04	60	0.5	0.03	3.2	2.50	<0.1	0.04
REP 1299681	QC	13.2	590.8	3.31	131.5	0.023	6	1.10	0.006	0.05	0.5	7.7	0.11	0.04	53	0.3	0.05	3.3	2.54	<0.1	0.05
1299689	Soil	23.6	199.1	1.66	175.8	0.013	3	0.99	0.003	0.10	0.4	5.2	0.08	0.02	35	0.3	0.05	2.9	2.45	<0.1	0.10
REP 1299689	QC	24.6	210.7	1.72	177.1	0.014	3	1.03	0.003	0.10	0.4	5.4	0.05	0.02	27	0.4	0.03	2.9	2.54	<0.1	0.08
Reference Materials																					
STD DS8	Standard	15.4	126.4	0.61	279.3	0.114	2	1.02	0.114	0.44	3.1	2.5	5.48	0.15	198	5.1	4.89	4.9	2.43	0.1	0.07
STD DS8	Standard	12.5	121.1	0.58	262.9	0.099	3	0.89	0.105	0.42	2.7	2.1	5.48	0.16	199	5.1	4.70	4.4	2.25	0.1	0.05
STD DS8	Standard	15.7	123.2	0.63	271.2	0.127	2	1.03	0.117	0.46	3.2	2.2	5.49	0.16	199	5.3	5.41	4.8	2.62	<0.1	0.09
STD DS8	Standard	13.3	122.1	0.57	257.4	0.103	2	0.91	0.088	0.41	2.8	1.9	5.51	0.16	192	5.1	4.57	4.3	2.31	<0.1	0.06
STD DS8	Standard	13.2	109.0	0.55	247.4	0.105	3	0.82	0.090	0.38	2.5	1.9	4.86	0.15	169	5.3	4.26	3.8	2.14	<0.1	0.06
STD DS8	Standard	15.1	118.3	0.60	263.2	0.117	2	0.95	0.101	0.42	2.9	2.2	5.23	0.15	189	4.2	4.82	4.4	2.31	<0.1	0.08
STD DS8	Standard	15.0	114.6	0.60	254.3	0.112	2	0.90	0.087	0.40	2.6	2.0	5.01	0.15	179	4.3	4.06	4.4	2.20	<0.1	0.08
STD DS8	Standard	12.4	107.2	0.52	234.1	0.096	2	0.85	0.089	0.38	2.6	1.9	4.72	0.14	170	4.7	4.62	4.0	2.12	<0.1	0.08
STD DS8	Standard	14.2	126.0	0.61	262.3	0.103	2	0.92	0.094	0.43	3.0	2.2	5.95	0.17	199	5.2	5.09	5.0	2.56	<0.1	0.07
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	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
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
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	2.7	<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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Project: Rivier  
 Report Date: November 21, 2011

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QUALITY CONTROL REPORT

WHI11001712.1

		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
1299661	Soil	0.71	6.9	3.2	<0.05	7.1	10.15	42.2	<0.02	<1	0.4	3.3	<10	<2
REP 1299661	QC	0.19	6.3	2.6	<0.05	6.9	9.71	37.2	<0.02	<1	0.2	3.1	<10	<2
1299681	Soil	0.38	8.0	0.5	<0.05	1.3	7.74	23.4	0.02	<1	0.7	11.4	<10	2
REP 1299681	QC	0.39	8.0	0.6	<0.05	1.3	7.66	25.1	<0.02	<1	0.6	11.6	<10	3
1299689	Soil	0.35	9.2	0.6	<0.05	3.2	11.58	47.5	0.03	<1	0.4	13.6	<10	<2
REP 1299689	QC	0.36	9.3	0.5	<0.05	3.0	11.59	48.0	<0.02	<1	0.4	13.7	<10	<2
Reference Materials														
STD DS8	Standard	1.52	37.4	6.6	<0.05	1.6	6.27	29.4	2.09	54	5.4	27.8	106	358
STD DS8	Standard	1.27	36.8	6.2	<0.05	1.4	5.20	24.1	2.11	59	5.3	28.7	107	341
STD DS8	Standard	1.42	41.1	6.9	<0.05	2.1	6.39	29.1	2.38	57	5.3	25.0	121	366
STD DS8	Standard	1.22	37.9	6.8	<0.05	1.4	5.24	23.4	2.21	51	5.1	25.9	122	348
STD DS8	Standard	1.32	33.2	5.7	<0.05	2.0	5.42	25.2	1.83	39	4.5	24.3	77	286
STD DS8	Standard	1.26	36.5	6.7	<0.05	2.0	6.01	26.7	2.07	51	5.2	24.6	120	331
STD DS8	Standard	1.29	34.1	6.1	<0.05	2.7	5.70	26.8	2.02	60	5.4	25.2	108	333
STD DS8	Standard	1.20	32.2	6.2	<0.05	1.9	4.84	23.4	1.90	44	4.8	22.7	88	301
STD DS8	Standard	1.20	38.9	6.6	<0.05	2.0	5.64	26.3	2.30	59	5.3	29.7	113	375
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
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
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
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
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: Harmen Keyser  
Receiving Lab: Canada-Whitehorse  
Received: September 14, 2011  
Report Date: November 24, 2011  
Page: 1 of 12

## CERTIFICATE OF ANALYSIS

WHI11001713.1

### CLIENT JOB INFORMATION

Project: Rivier  
Shipment ID: 2011-01  
P.O. Number  
Number of Samples: 301

### 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.

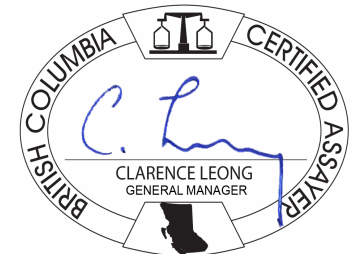
Invoice To: 0919233 B.C. Ltd  
830-355 Burrard St.  
Vancouver B.C. V6C 2G8  
Canada

CC: Chris McKnight  
database backup

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	300	Dry at 60C			WHI
SS80	300	Dry at 60C sieve 100g to -80 mesh			WHI
1F05	300	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	300	Saving all or part of Soil Reject			WHI

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. 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: November 24, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				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
1299695	Soil			1.01	10.97	13.64	44.7	133	19.4	6.4	228	2.03	52.8	0.9	5.4	2.1	9.9	0.28	0.51	0.29	27	0.15	0.063
1299696	Soil			1.57	16.27	15.48	56.8	136	25.0	6.3	236	2.17	53.9	1.2	8.9	2.0	10.1	0.23	0.97	0.28	28	0.14	0.065
1299697	Soil			1.52	36.19	20.61	90.2	389	612.0	40.2	749	4.21	108.0	1.3	10.2	8.7	20.3	0.53	4.40	0.30	38	0.25	0.098
1299698	Soil			1.07	13.66	12.95	60.5	68	232.0	24.2	405	2.64	33.1	0.8	2.0	2.2	13.6	0.39	1.46	0.21	37	0.19	0.082
1299699	Soil			0.74	13.48	7.50	48.5	73	381.6	24.3	315	2.45	16.5	0.8	1.6	3.2	15.6	0.28	0.85	0.13	34	0.23	0.066
1299700	Soil			0.75	15.76	6.59	46.1	62	598.4	30.4	329	2.88	17.4	0.8	2.3	2.6	11.5	0.24	0.93	0.11	34	0.15	0.050
1299701	Soil			0.87	25.92	23.16	130.3	564	66.1	13.2	344	2.95	128.1	1.8	16.4	3.8	32.1	1.37	2.11	0.33	19	0.61	0.123
1299702	Soil			0.79	8.17	8.16	39.0	153	18.5	4.2	128	1.53	95.3	0.5	3.7	0.3	11.4	0.22	1.13	0.19	21	0.12	0.041
1299703	Soil			1.82	22.41	13.12	87.8	351	143.1	14.7	334	2.53	100.3	0.9	8.2	1.4	19.4	0.48	3.84	0.20	36	0.29	0.092
1299704	Soil			2.27	37.49	17.58	117.7	560	404.6	30.0	654	3.63	239.4	1.0	22.2	3.1	20.9	0.95	8.46	0.23	44	0.27	0.103
1299705	Soil			1.31	29.57	12.31	95.0	403	318.1	22.7	432	2.64	118.8	0.7	14.7	2.4	40.5	0.62	5.52	0.17	36	0.82	0.095
1299706	Soil			1.09	18.13	11.11	66.0	252	390.1	32.3	515	3.25	106.5	0.5	9.0	3.3	14.1	0.38	4.38	0.15	38	0.22	0.050
1299707	Soil			1.72	37.02	15.53	112.1	511	406.4	27.3	639	3.42	218.8	0.9	20.5	3.6	25.9	0.87	8.97	0.20	41	0.37	0.126
1299708	Soil			1.70	34.81	14.06	117.8	621	351.7	16.9	342	2.95	183.4	0.8	24.1	3.1	24.0	0.59	8.00	0.18	41	0.41	0.093
1299709	Soil			0.90	17.04	18.59	53.8	728	444.8	15.9	330	2.61	161.8	1.6	7.6	2.5	19.5	0.16	4.98	0.25	36	0.41	0.114
1299710	Soil			2.24	46.11	17.15	103.2	1474	318.7	22.4	387	3.38	363.7	1.1	39.5	7.7	20.2	0.62	12.59	0.20	34	0.21	0.071
1299711	Soil			1.03	17.17	14.05	66.7	236	96.5	9.2	224	2.30	235.3	0.7	23.4	0.6	14.1	0.23	6.14	0.19	36	0.12	0.094
1299712	Soil			1.99	41.76	18.81	113.8	562	108.2	16.0	422	2.96	241.8	1.0	36.3	4.3	18.5	0.73	6.21	0.21	38	0.25	0.086
1299713	Soil			1.92	22.49	20.78	96.4	115	84.6	13.3	347	4.41	720.6	0.6	9.3	2.5	29.2	0.55	9.27	0.25	34	0.49	0.055
1299714	Soil			1.42	25.44	20.04	58.7	666	54.4	9.1	235	3.53	320.6	0.8	32.7	2.7	15.7	0.20	5.10	0.38	27	0.30	0.065
1299715	Soil			3.06	43.27	28.60	104.1	1329	115.7	18.9	642	5.15	771.9	2.8	32.7	1.9	32.8	0.52	13.53	0.50	28	0.55	0.184
1299716	Soil			3.73	54.66	21.35	122.1	570	47.1	12.7	456	2.78	103.3	1.4	13.0	5.4	17.8	0.70	6.75	0.24	31	0.13	0.068
1299717	Soil			12.37	70.60	49.20	106.5	740	19.0	5.5	216	3.59	238.1	2.3	16.5	0.6	55.6	0.48	19.80	0.36	51	0.26	0.182
1299718	Soil			1.47	35.78	19.35	115.1	927	45.1	16.7	729	2.88	44.1	1.6	6.7	3.9	31.0	1.34	2.34	0.23	24	0.38	0.100
1299719	Soil			1.60	24.41	16.46	71.2	2402	27.2	4.5	156	2.19	111.8	3.9	10.1	1.6	48.4	0.65	3.86	0.24	21	0.73	0.244
1299720	Soil			2.54	41.64	11.14	85.5	178	42.0	9.2	260	2.17	33.1	1.3	12.0	4.8	16.3	0.49	2.31	0.14	33	0.22	0.077
1299721	Soil			3.87	23.98	15.81	66.7	373	63.3	10.4	291	2.82	55.1	1.0	5.4	4.4	13.9	0.37	2.42	0.22	40	0.11	0.058
1299722	Soil			2.26	35.26	12.68	82.9	135	54.4	13.7	522	2.86	32.6	1.0	6.7	5.1	17.1	0.31	1.65	0.17	44	0.24	0.090
1299723	Soil			0.10	7.69	1.17	10.7	73	4.4	1.3	32	0.34	1.9	0.4	0.4	0.2	24.9	0.14	0.25	<0.02	8	0.44	0.049
1299724	Soil			0.85	13.65	12.28	69.1	37	177.9	17.2	366	2.72	46.3	0.9	0.4	0.9	9.0	0.38	1.24	0.19	35	0.10	0.053

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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	0.02	
1299695	Soil	18.5	26.4	0.31	78.4	0.018	<1	1.04	0.004	0.10	0.3	1.1	0.11	<0.02	19	0.3	<0.02	3.1	1.72	<0.1	<0.02
1299696	Soil	24.6	30.2	0.34	101.4	0.016	<1	1.12	0.003	0.09	0.3	1.4	0.13	<0.02	21	0.4	<0.02	3.3	1.95	<0.1	<0.02
1299697	Soil	27.9	288.2	1.95	161.7	0.034	3	1.07	0.007	0.09	1.1	4.5	0.11	<0.02	70	0.7	0.04	3.0	2.41	<0.1	0.06
1299698	Soil	15.0	187.0	1.76	155.3	0.026	2	1.10	0.006	0.07	0.3	2.0	0.08	<0.02	14	0.2	<0.02	3.2	1.85	<0.1	<0.02
1299699	Soil	13.1	281.7	2.87	118.0	0.038	6	0.81	0.011	0.05	0.3	2.8	0.06	<0.02	18	0.2	<0.02	2.4	1.31	<0.1	0.04
1299700	Soil	11.6	494.4	4.39	109.4	0.031	9	0.84	0.009	0.04	0.3	3.6	0.06	<0.02	21	0.3	<0.02	2.3	0.64	<0.1	0.04
1299701	Soil	20.2	47.7	0.51	102.6	0.006	2	0.82	0.003	0.11	0.5	2.4	0.08	0.06	26	1.0	<0.02	2.1	2.44	<0.1	0.02
1299702	Soil	10.0	19.6	0.21	99.5	0.008	1	0.72	0.013	0.05	0.3	0.6	0.09	<0.02	15	0.2	<0.02	2.9	1.54	<0.1	<0.02
1299703	Soil	16.5	125.7	0.92	257.9	0.014	2	1.01	0.006	0.08	0.4	2.3	0.09	0.03	49	0.4	0.02	2.8	1.15	<0.1	<0.02
1299704	Soil	17.9	254.3	1.77	252.7	0.011	4	1.16	0.006	0.10	0.3	4.3	0.14	0.03	83	0.5	<0.02	3.1	2.37	<0.1	0.04
1299705	Soil	12.3	200.1	1.65	295.4	0.017	5	1.00	0.009	0.08	0.3	3.8	0.10	0.05	94	0.4	<0.02	2.9	1.38	<0.1	0.06
1299706	Soil	11.6	382.2	2.32	169.4	0.019	2	1.02	0.005	0.06	0.2	4.0	0.07	<0.02	37	0.3	<0.02	2.7	0.81	<0.1	0.03
1299707	Soil	15.9	230.1	1.68	243.4	0.012	4	1.10	0.005	0.10	0.4	5.3	0.13	0.03	102	0.4	0.02	2.9	1.63	<0.1	0.05
1299708	Soil	13.1	167.5	1.35	258.2	0.008	4	1.15	0.004	0.11	0.5	4.6	0.13	0.04	107	0.4	0.02	2.9	1.51	<0.1	0.13
1299709	Soil	15.5	136.0	1.10	616.0	0.004	1	1.42	0.002	0.07	0.4	3.0	0.17	0.06	63	0.2	<0.02	4.0	4.20	<0.1	0.06
1299710	Soil	22.2	112.4	0.84	265.9	0.005	4	0.97	0.003	0.09	0.3	4.9	0.12	<0.02	89	0.7	<0.02	2.5	2.36	<0.1	0.05
1299711	Soil	13.7	50.7	0.44	290.5	0.004	2	1.29	0.007	0.06	0.4	0.9	0.19	0.02	37	0.3	<0.02	3.9	2.13	<0.1	<0.02
1299712	Soil	20.1	52.9	0.55	384.8	0.009	1	1.14	0.006	0.08	0.3	3.5	0.13	<0.02	116	0.5	0.03	2.9	1.25	<0.1	0.03
1299713	Soil	14.9	115.6	0.38	207.0	0.004	<1	0.73	0.002	0.04	0.5	1.6	0.13	0.03	19	0.5	0.03	2.9	1.80	<0.1	<0.02
1299714	Soil	12.8	53.1	0.30	239.1	0.005	<1	1.02	0.003	0.05	0.4	2.7	0.11	0.02	34	0.3	<0.02	2.9	1.84	<0.1	<0.02
1299715	Soil	10.3	92.2	0.49	321.7	0.004	1	0.92	0.006	0.05	0.7	3.9	0.14	0.09	50	1.2	0.08	2.4	2.26	<0.1	0.06
1299716	Soil	26.2	23.2	0.30	282.9	0.010	1	0.81	0.003	0.05	0.2	2.6	0.11	<0.02	102	0.9	0.04	2.3	1.19	<0.1	<0.02
1299717	Soil	11.5	33.4	0.16	302.2	0.002	2	0.69	0.003	0.06	0.4	0.7	0.22	0.08	97	3.3	0.18	2.6	2.99	<0.1	<0.02
1299718	Soil	14.9	36.4	0.30	288.0	0.003	2	0.99	0.004	0.05	0.3	2.4	0.18	0.05	84	1.1	<0.02	2.5	2.74	<0.1	0.11
1299719	Soil	9.0	41.7	0.34	224.9	0.005	1	0.96	0.007	0.04	0.4	1.6	0.11	0.12	105	1.8	<0.02	2.7	2.82	<0.1	0.10
1299720	Soil	17.3	30.1	0.39	127.8	0.037	<1	0.94	0.004	0.05	0.3	1.9	0.08	<0.02	77	0.8	<0.02	2.8	0.94	<0.1	<0.02
1299721	Soil	20.0	91.4	0.58	147.5	0.022	1	1.12	0.002	0.05	0.3	1.7	0.11	<0.02	47	0.8	0.03	3.4	1.52	<0.1	<0.02
1299722	Soil	26.7	59.6	0.73	196.9	0.042	<1	1.33	0.003	0.05	0.2	2.6	0.10	<0.02	64	0.6	0.03	4.1	1.62	<0.1	<0.02
1299723	Soil	2.5	4.6	0.09	87.1	0.019	<1	0.61	0.043	0.03	<0.1	0.5	<0.02	0.08	22	2.1	<0.02	1.4	0.50	<0.1	0.06
1299724	Soil	14.8	198.5	0.95	191.1	0.014	<1	1.33	0.003	0.05	0.4	1.6	0.13	<0.02	25	0.2	<0.02	3.7	1.91	<0.1	<0.02

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Project: Rivier  
 Report Date: November 24, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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	
1299695	Soil	0.53	12.5	1.0	<0.05	0.2	4.87	36.2	0.03	2	0.3	14.2	<10	<2
1299696	Soil	0.39	15.7	0.7	<0.05	1.8	6.22	46.6	0.03	<1	0.5	17.0	<10	<2
1299697	Soil	0.14	8.1	1.0	<0.05	4.0	10.17	53.4	0.03	1	0.6	16.6	<10	<2
1299698	Soil	0.54	8.8	1.3	<0.05	0.7	4.27	28.9	0.02	<1	0.3	15.4	<10	<2
1299699	Soil	0.51	5.0	0.6	<0.05	1.3	4.95	24.5	<0.02	<1	0.2	10.0	<10	<2
1299700	Soil	0.36	4.7	0.5	<0.05	1.0	5.39	22.3	<0.02	<1	0.3	10.0	<10	<2
1299701	Soil	0.30	12.0	0.6	<0.05	1.2	14.37	40.2	0.02	2	0.6	20.2	<10	<2
1299702	Soil	0.31	10.4	0.8	<0.05	<0.1	1.80	18.9	<0.02	<1	0.1	7.0	<10	<2
1299703	Soil	0.42	8.5	2.3	<0.05	0.3	7.57	28.9	<0.02	<1	0.4	13.7	<10	<2
1299704	Soil	0.36	9.3	2.0	<0.05	0.9	10.06	33.6	0.03	1	0.6	15.6	<10	2
1299705	Soil	0.60	8.8	2.1	<0.05	2.1	7.66	23.0	<0.02	<1	0.5	12.6	<10	3
1299706	Soil	0.25	5.2	0.8	<0.05	0.9	4.88	23.3	<0.02	<1	0.3	13.2	<10	2
1299707	Soil	0.40	9.3	0.8	<0.05	2.1	10.18	29.8	<0.02	2	0.7	15.2	<10	2
1299708	Soil	0.49	9.7	1.2	<0.05	3.4	9.56	23.5	0.02	<1	0.5	15.3	<10	<2
1299709	Soil	0.78	11.6	0.8	<0.05	1.5	9.70	28.7	<0.02	<1	0.7	21.8	<10	<2
1299710	Soil	0.30	8.6	1.2	<0.05	2.9	9.33	42.9	0.04	<1	0.8	12.7	<10	<2
1299711	Soil	0.18	11.3	1.0	<0.05	0.3	4.08	27.4	0.02	<1	0.4	11.1	<10	<2
1299712	Soil	0.41	9.0	1.6	<0.05	1.0	10.89	38.4	<0.02	<1	0.6	13.4	<10	<2
1299713	Soil	0.44	10.5	0.9	<0.05	0.6	2.27	28.0	0.03	<1	0.3	4.6	<10	<2
1299714	Soil	0.47	12.0	1.2	<0.05	0.5	6.40	23.9	0.02	<1	0.3	9.2	<10	<2
1299715	Soil	0.37	11.7	1.5	<0.05	1.6	11.19	19.3	0.03	<1	0.6	6.6	<10	<2
1299716	Soil	0.19	6.8	0.6	<0.05	0.5	11.09	48.9	0.02	<1	0.3	9.2	<10	<2
1299717	Soil	0.18	10.5	2.1	<0.05	0.4	4.66	21.2	0.04	1	0.5	4.2	<10	<2
1299718	Soil	0.31	12.2	0.8	<0.05	3.5	7.55	29.4	<0.02	<1	0.4	11.1	<10	<2
1299719	Soil	0.39	12.3	0.8	<0.05	2.7	7.09	17.2	0.03	<1	0.3	6.2	<10	<2
1299720	Soil	0.69	6.2	0.5	<0.05	1.0	6.76	33.9	<0.02	<1	0.3	9.0	<10	<2
1299721	Soil	0.68	9.8	0.8	<0.05	0.4	4.41	40.1	<0.02	<1	0.5	12.4	<10	<2
1299722	Soil	0.72	7.6	0.9	<0.05	0.8	9.46	50.1	<0.02	2	0.5	14.6	<10	<2
1299723	Soil	0.23	1.8	0.2	<0.05	2.2	1.26	4.8	<0.02	8	0.1	2.7	<10	<2
1299724	Soil	0.37	11.6	0.9	<0.05	<0.1	4.18	36.4	0.02	<1	0.6	15.7	<10	<2



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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				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
1299725	Soil			0.75	15.08	7.26	47.6	49	651.2	32.0	413	2.76	14.1	0.7	1.0	1.9	10.7	0.25	0.84	0.10	35	0.15	0.057
1299726	Soil			0.24	13.99	7.20	44.4	93	796.9	31.5	352	2.04	6.2	0.5	1.5	1.4	10.5	0.12	0.61	0.09	22	0.23	0.066
1299727	Soil			0.23	10.98	7.09	40.7	188	446.2	22.5	280	1.87	10.2	0.6	1.1	1.7	10.2	0.16	0.93	0.07	26	0.20	0.039
1299728	Soil			0.41	12.75	6.92	41.7	100	408.6	17.2	258	1.95	14.6	0.5	0.8	1.5	12.8	0.17	0.99	0.09	26	0.22	0.062
1299729	Soil			0.11	13.05	7.03	34.4	145	360.3	11.3	159	1.28	6.6	0.5	3.4	2.5	16.1	0.12	3.03	0.07	22	0.41	0.053
1299730	Soil			0.38	37.45	9.26	58.9	673	243.3	24.5	653	2.92	83.1	0.5	9.8	2.4	16.3	0.21	5.18	0.09	51	0.36	0.073
1299731	Soil			0.95	19.57	14.21	62.5	137	890.2	47.3	716	4.22	40.8	0.8	4.6	2.2	15.4	0.45	2.89	0.24	42	0.22	0.063
1299732	Soil			0.57	19.80	7.34	49.9	105	1342	72.9	615	5.01	69.4	0.6	2.4	2.1	9.8	0.29	8.36	0.13	49	0.15	0.049
1299733	Soil			0.19	11.62	2.85	28.8	46	1955	80.9	595	3.83	90.1	0.2	2.1	0.6	7.3	0.15	12.82	0.05	47	0.19	0.034
1299734	Soil			0.56	18.20	8.22	47.7	257	1072	94.1	936	3.47	90.6	0.5	1.9	1.1	14.7	0.25	27.39	0.15	36	0.25	0.068
1299735	Soil			0.98	20.02	9.59	60.5	193	1503	78.8	575	4.65	116.9	0.7	4.7	2.3	14.6	0.27	12.39	0.13	41	0.16	0.035
1299736	Soil			1.10	23.40	10.34	83.3	200	1707	79.8	745	4.99	62.2	0.8	5.7	2.9	14.8	0.50	8.07	0.17	45	0.15	0.050
1299737	Soil			1.14	51.09	14.07	86.7	581	110.9	28.3	752	4.39	591.9	1.0	99.7	10.1	204.9	0.23	4.70	0.23	12	5.14	0.118
1299738	Soil			1.04	15.06	14.93	58.5	62	311.4	20.3	394	2.56	22.2	0.7	10.7	2.7	12.4	0.34	1.87	0.22	35	0.17	0.059
1299739	Soil			0.80	13.98	7.46	42.1	69	597.9	39.4	442	2.68	17.6	0.7	15.6	1.6	13.7	0.31	2.91	0.12	32	0.18	0.074
1299740	Soil			0.79	19.40	11.37	51.7	96	597.8	29.2	373	2.86	17.9	0.8	2.2	2.0	10.6	0.29	1.21	0.18	34	0.20	0.087
1299741	Soil			0.76	16.94	10.56	58.8	83	640.6	44.7	565	3.75	18.8	0.9	2.1	1.7	10.7	0.35	0.72	0.18	37	0.17	0.139
1299742	Soil			0.72	17.95	7.21	49.1	75	917.6	43.9	395	3.49	13.6	0.7	1.6	1.7	9.5	0.27	1.00	0.12	34	0.17	0.065
1299743	Soil			0.32	13.80	9.95	43.0	109	567.1	24.9	237	2.16	6.3	0.6	4.8	2.6	10.1	0.13	0.55	0.15	25	0.22	0.055
1299744	Soil			0.55	13.64	9.12	44.7	93	619.5	29.9	278	2.48	8.3	0.6	6.7	2.4	9.1	0.16	0.68	0.13	29	0.16	0.038
1299745	Soil			0.83	16.66	11.16	45.9	268	673.2	35.3	398	3.00	26.4	0.6	3.6	1.7	10.0	0.21	1.58	0.13	37	0.17	0.058
1299746	Soil			0.34	13.22	9.86	45.3	269	396.6	19.6	293	1.95	17.3	0.5	4.5	1.6	13.2	0.13	1.43	0.14	27	0.22	0.059
1299747	Soil			0.17	14.45	6.21	29.8	423	1240	45.6	294	2.58	31.2	0.5	4.0	1.4	12.7	0.10	4.35	0.06	29	0.34	0.046
1299751	Soil			4.98	78.44	33.93	181.6	1060	249.8	21.1	473	4.31	475.8	1.3	21.2	8.2	38.8	0.91	31.46	0.30	40	0.30	0.128
1299752	Soil			2.12	39.96	52.48	102.1	708	99.7	20.3	739	4.69	683.2	1.1	49.8	6.6	25.8	0.67	11.51	0.28	20	0.36	0.140
1299753	Soil			2.06	29.99	58.97	121.1	973	83.4	16.6	731	4.31	3125	1.2	314.2	23.0	31.8	0.79	16.58	0.50	17	0.28	0.087
1299754	Soil			3.16	36.91	23.05	122.2	488	114.5	20.1	608	4.30	826.7	1.1	48.2	4.3	14.3	0.93	11.53	0.32	37	0.09	0.089
1299755	Soil			2.68	46.06	25.13	121.3	1191	159.8	13.6	301	3.37	411.8	1.0	46.5	3.9	24.7	0.45	9.93	0.29	36	0.36	0.102
1299756	Soil			0.96	17.02	13.27	69.8	146	487.0	34.4	687	4.41	171.5	0.6	6.7	1.6	16.4	0.53	6.76	0.18	44	0.27	0.079
1299757	Soil			1.97	28.00	18.74	79.5	259	236.4	25.3	518	3.75	413.7	0.7	28.5	4.3	9.5	0.42	8.19	0.28	35	0.07	0.042

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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		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	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
1299725	Soil	9.6	600.9	4.98	101.3	0.025	9	0.89	0.009	0.07	0.3	4.1	0.07	0.04	21	0.2	<0.02	2.4	0.69	<0.1	0.04
1299726	Soil	8.6	694.8	5.88	114.3	0.015	14	0.75	0.008	0.06	0.2	3.2	0.06	0.07	30	0.2	<0.02	2.0	0.65	<0.1	0.04
1299727	Soil	9.3	522.5	3.99	105.6	0.024	9	0.85	0.009	0.04	0.3	3.6	0.06	0.04	22	<0.1	<0.02	2.4	0.57	<0.1	0.03
1299728	Soil	7.9	420.9	3.32	119.5	0.018	11	0.81	0.008	0.04	0.4	3.1	0.05	0.06	24	0.2	<0.02	2.1	0.65	<0.1	0.04
1299729	Soil	10.5	382.8	2.41	146.2	0.026	10	0.86	0.009	0.04	0.2	3.3	0.06	0.06	33	0.1	<0.02	2.5	0.54	<0.1	0.03
1299730	Soil	9.1	241.2	1.75	120.6	0.013	4	1.31	0.003	0.06	0.3	7.3	0.06	0.04	24	0.2	<0.02	3.2	4.11	<0.1	0.05
1299731	Soil	12.7	546.8	2.39	160.4	0.021	7	1.02	0.006	0.07	0.8	6.0	0.13	0.05	61	0.3	0.04	2.8	2.64	<0.1	0.05
1299732	Soil	7.9	992.0	4.69	119.5	0.018	21	1.23	0.004	0.06	0.9	9.5	0.05	0.05	32	0.4	0.06	3.0	3.51	<0.1	0.03
1299733	Soil	2.3	1397	15.57	104.3	0.009	74	1.17	<0.001	0.02	0.5	12.8	<0.02	0.03	26	0.5	<0.02	1.9	3.64	0.2	<0.02
1299734	Soil	6.6	1237	9.43	186.3	0.013	32	0.72	0.005	0.05	0.5	5.6	0.04	0.07	40	0.4	0.02	2.1	12.95	<0.1	0.03
1299735	Soil	10.4	789.2	4.77	113.2	0.022	11	0.90	0.006	0.04	0.8	6.4	0.16	0.03	63	0.3	<0.02	2.5	3.93	<0.1	0.03
1299736	Soil	13.1	765.8	3.99	128.3	0.022	11	1.05	0.006	0.05	1.0	7.1	0.10	0.03	44	0.3	0.03	3.1	6.92	<0.1	0.06
1299737	Soil	16.0	51.2	0.63	155.1	0.003	4	0.42	0.003	0.09	0.5	4.4	0.08	0.04	15	0.4	0.02	0.9	5.49	<0.1	0.07
1299738	Soil	12.4	310.3	2.51	116.3	0.036	7	0.92	0.009	0.09	0.3	3.4	0.06	0.03	26	0.2	<0.02	2.6	1.00	<0.1	0.04
1299739	Soil	8.3	476.2	4.89	126.0	0.025	11	0.75	0.010	0.05	0.4	3.4	0.04	0.06	28	0.2	0.03	2.1	0.66	<0.1	0.05
1299740	Soil	8.7	558.2	5.02	110.7	0.020	10	0.89	0.007	0.09	0.4	4.2	0.06	0.06	28	0.4	0.04	2.3	0.95	<0.1	0.06
1299741	Soil	7.6	836.1	5.80	147.1	0.016	11	0.95	0.005	0.08	0.7	5.3	0.06	0.08	28	0.4	<0.02	2.5	0.86	<0.1	0.10
1299742	Soil	6.6	834.3	8.10	110.0	0.017	14	0.77	0.006	0.05	0.6	5.0	0.04	0.06	25	0.4	<0.02	2.0	0.66	<0.1	0.05
1299743	Soil	10.5	552.6	5.27	107.9	0.019	10	0.82	0.007	0.07	0.3	4.0	0.06	0.04	18	0.2	<0.02	2.1	0.76	<0.1	0.05
1299744	Soil	10.5	548.9	5.81	90.3	0.023	10	0.79	0.008	0.06	0.3	4.1	0.05	0.03	19	0.2	<0.02	2.1	0.59	<0.1	0.03
1299745	Soil	8.5	667.0	5.57	101.0	0.021	10	0.85	0.007	0.05	0.7	5.0	0.04	0.05	23	0.3	0.04	2.2	0.61	<0.1	0.04
1299746	Soil	9.8	422.0	2.93	140.2	0.020	10	0.86	0.010	0.04	0.4	3.4	0.06	0.07	28	0.3	0.02	2.3	0.68	<0.1	0.04
1299747	Soil	5.4	1215	12.62	66.0	0.016	49	0.63	0.005	0.03	0.2	5.8	0.04	0.05	34	0.5	<0.02	1.6	1.88	<0.1	0.02
1299751	Soil	21.9	121.8	1.16	210.5	0.015	4	0.96	0.004	0.09	0.4	4.5	0.15	0.02	120	1.0	0.04	2.7	1.69	<0.1	0.06
1299752	Soil	21.1	69.0	0.36	131.9	0.004	3	0.41	0.003	0.04	0.6	5.1	0.06	0.05	25	0.7	0.06	1.2	2.00	<0.1	0.05
1299753	Soil	34.8	44.6	0.37	295.6	0.003	4	0.68	0.004	0.15	0.5	4.0	0.14	0.02	67	0.4	0.04	1.6	4.45	<0.1	0.05
1299754	Soil	21.8	58.9	0.36	414.8	0.005	3	1.12	0.002	0.06	0.4	2.9	0.16	<0.02	49	0.7	0.07	2.8	2.42	<0.1	<0.02
1299755	Soil	13.5	78.3	0.78	319.4	0.006	5	0.99	0.003	0.09	0.4	4.1	0.13	0.05	126	0.6	0.08	2.7	1.50	<0.1	0.12
1299756	Soil	8.5	427.5	2.70	206.1	0.010	3	1.07	0.009	0.04	0.5	4.7	0.06	0.05	53	0.3	0.02	2.7	8.06	<0.1	0.05
1299757	Soil	17.6	172.6	1.06	298.4	0.005	2	1.15	0.001	0.06	0.4	3.0	0.12	<0.02	48	0.3	0.02	3.0	1.98	<0.1	<0.02

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Project: Rivier  
 Report Date: November 24, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299725	Soil	0.44	7.6	1.0	<0.05	1.2	4.82	19.8	<0.02	<1	0.2	7.9	<10	<2
1299726	Soil	0.42	7.7	1.5	<0.05	1.1	5.25	15.4	<0.02	<1	0.1	6.7	<10	<2
1299727	Soil	0.49	5.4	0.7	<0.05	1.0	3.48	17.7	<0.02	<1	0.1	7.8	<10	<2
1299728	Soil	0.56	6.6	0.8	<0.05	1.3	2.58	15.3	<0.02	<1	0.2	7.6	<10	3
1299729	Soil	0.73	5.0	0.9	<0.05	1.3	5.00	19.0	<0.02	<1	0.2	9.2	<10	<2
1299730	Soil	0.46	7.3	1.1	<0.05	1.3	6.74	20.0	0.02	<1	0.2	18.1	<10	<2
1299731	Soil	0.48	9.4	1.0	<0.05	1.2	7.25	23.6	0.03	<1	0.9	13.1	<10	3
1299732	Soil	0.29	5.7	1.0	<0.05	1.0	4.36	15.6	0.02	<1	0.6	23.5	<10	2
1299733	Soil	0.05	2.0	1.0	<0.05	0.4	1.67	3.8	<0.02	<1	0.2	32.8	<10	3
1299734	Soil	0.23	5.0	1.1	<0.05	0.7	3.33	12.3	0.02	<1	0.3	25.2	<10	2
1299735	Soil	0.28	5.3	0.9	<0.05	1.2	5.80	19.1	<0.02	<1	0.6	12.6	<10	2
1299736	Soil	0.38	7.8	0.5	<0.05	1.5	6.50	23.9	<0.02	<1	1.0	15.6	<10	<2
1299737	Soil	0.06	6.4	1.0	<0.05	3.8	11.12	29.7	0.03	<1	0.6	3.1	<10	<2
1299738	Soil	0.62	10.1	2.3	<0.05	1.1	4.60	24.9	<0.02	<1	0.4	10.2	<10	<2
1299739	Soil	0.49	5.6	1.6	<0.05	1.4	4.14	15.5	<0.02	<1	0.2	6.9	<10	<2
1299740	Soil	0.44	9.3	2.1	<0.05	1.9	4.51	15.7	<0.02	<1	0.3	8.2	<10	<2
1299741	Soil	0.42	9.6	1.7	<0.05	2.0	6.14	14.1	<0.02	<1	0.3	7.2	<10	2
1299742	Soil	0.32	6.3	1.3	<0.05	1.7	3.05	12.4	<0.02	<1	0.2	6.4	<10	<2
1299743	Soil	0.44	9.1	1.4	<0.05	1.5	4.96	17.5	<0.02	<1	0.2	7.5	<10	<2
1299744	Soil	0.36	6.7	1.7	<0.05	1.2	4.38	18.1	<0.02	<1	0.3	7.4	<10	<2
1299745	Soil	0.36	5.8	0.8	<0.05	1.0	3.08	16.2	0.02	2	0.2	7.1	<10	<2
1299746	Soil	0.50	6.8	1.2	<0.05	1.1	3.51	16.4	<0.02	<1	0.2	8.7	<10	<2
1299747	Soil	0.18	3.8	2.4	<0.05	0.8	2.94	9.1	<0.02	<1	<0.1	5.6	<10	<2
1299751	Soil	0.22	7.9	2.2	<0.05	4.3	10.77	38.2	<0.02	<1	0.5	10.9	<10	<2
1299752	Soil	0.14	6.5	4.5	<0.05	2.0	9.36	38.7	0.02	<1	0.5	3.8	<10	<2
1299753	Soil	0.29	11.1	5.5	<0.05	2.1	10.47	62.0	<0.02	<1	0.6	7.5	<10	<2
1299754	Soil	0.31	13.2	1.3	<0.05	0.8	6.76	42.1	0.03	<1	1.0	12.4	<10	<2
1299755	Soil	0.42	9.8	1.7	<0.05	3.7	6.68	24.5	0.02	1	0.4	12.3	<10	<2
1299756	Soil	0.36	7.6	1.2	<0.05	1.3	4.18	16.6	<0.02	<1	0.4	12.5	<10	<2
1299757	Soil	0.32	10.5	0.9	<0.05	0.6	5.93	32.1	<0.02	<1	0.6	18.1	<10	<2



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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1299758	Soil			1.70	25.00	16.90	101.2	261	260.5	28.7	544	3.50	257.3	0.6	17.3	4.9	14.9	0.61	7.65	0.24	42	0.17	0.056
1299759	Soil			1.06	16.48	8.88	64.2	104	322.3	23.0	314	2.46	41.1	0.6	4.5	4.1	18.3	0.35	1.86	0.14	35	0.25	0.074
1299760	Soil			1.55	26.34	13.81	81.5	319	383.7	23.9	391	3.15	134.9	0.8	13.3	3.4	22.8	0.55	6.35	0.19	37	0.31	0.097
1299761	Soil			1.03	16.78	12.31	82.1	159	192.4	22.4	411	2.35	88.9	0.6	3.6	1.4	15.4	0.94	2.82	0.19	33	0.16	0.067
1299762	Soil			0.68	13.62	5.48	44.0	309	179.8	10.5	158	1.44	39.0	0.5	7.2	0.4	13.0	0.29	2.08	0.09	21	0.15	0.062
1299763	Soil			1.31	11.91	12.11	65.6	111	95.7	9.3	264	2.06	69.6	0.6	5.0	2.3	12.1	0.45	2.90	0.23	36	0.12	0.047
1299764	Soil			1.27	26.54	18.13	85.5	356	131.8	17.6	528	2.94	155.1	1.2	47.5	7.3	21.3	0.50	5.98	0.24	31	0.31	0.119
1299765	Soil			1.79	38.60	19.69	96.1	318	290.6	24.3	1154	4.39	365.1	0.9	18.3	3.4	31.0	0.33	18.01	0.35	47	0.37	0.127
1299766	Soil			1.41	31.10	26.29	150.6	90	221.9	26.5	1027	5.39	409.9	0.7	6.9	4.9	16.1	0.40	13.35	0.33	45	0.13	0.112
1299767	Soil			1.44	26.16	17.68	88.2	859	124.0	16.4	398	3.84	294.4	0.9	10.9	3.6	16.6	0.26	5.96	0.32	41	0.18	0.086
1299768	Soil			0.67	10.16	10.27	44.0	348	35.3	6.6	161	2.33	345.8	0.6	13.9	1.6	17.6	0.18	3.92	0.18	23	0.23	0.095
1299769	Soil			0.74	10.08	12.05	47.7	183	22.2	6.8	209	2.33	124.8	0.6	10.7	2.7	13.7	0.18	1.18	0.24	22	0.19	0.096
1299770	Soil			1.24	32.54	18.70	99.5	1538	703.7	33.2	614	3.84	531.5	0.9	34.0	4.4	30.1	0.45	39.97	0.32	37	0.39	0.083
1299771	Soil			1.07	23.54	15.88	76.3	840	517.0	27.3	479	3.53	326.3	0.7	21.0	4.2	19.3	0.30	33.75	0.26	35	0.23	0.062
1299772	Soil			1.01	25.58	14.73	71.1	655	482.5	26.6	493	3.25	359.6	0.7	30.5	2.9	22.8	0.25	29.01	0.25	33	0.33	0.071
1299773	Soil			0.97	74.72	15.52	75.1	656	59.3	25.6	736	5.75	2220	0.8	81.4	5.3	9.4	0.39	5.10	0.28	34	0.15	0.078
1299774	Soil			1.10	31.73	15.63	89.2	758	479.2	28.7	619	3.56	349.9	0.9	22.0	4.7	20.3	0.37	34.44	0.28	38	0.28	0.080
1299775	Soil			0.90	12.08	10.60	63.5	183	160.7	14.6	344	2.28	150.9	0.5	4.0	1.2	10.3	0.31	10.92	0.20	28	0.10	0.052
1299776	Soil			0.82	22.88	9.76	64.0	411	531.4	32.3	665	2.89	199.4	0.6	33.0	3.4	20.3	0.42	7.51	0.16	28	0.31	0.084
1299777	Soil			1.08	18.64	11.73	68.8	247	350.2	25.3	389	2.89	131.2	0.6	8.1	1.8	15.0	0.44	6.06	0.18	33	0.20	0.088
1299778	Soil			1.09	22.59	10.88	62.9	420	627.1	43.0	631	3.74	282.0	0.5	26.5	2.9	13.8	0.40	12.07	0.16	36	0.20	0.051
1299779	Soil			1.19	29.90	11.89	74.9	538	643.7	34.6	531	3.45	309.9	0.6	41.6	4.6	28.8	0.43	11.03	0.17	37	0.50	0.082
1299780	Soil			1.04	28.94	12.08	69.4	536	922.9	49.1	722	4.00	286.8	0.6	39.5	3.3	19.5	0.47	10.68	0.17	39	0.34	0.052
1299781	Soil			1.03	15.65	10.96	59.4	148	540.6	32.3	452	3.63	149.6	0.5	7.1	2.6	13.3	0.30	5.60	0.19	35	0.22	0.048
1299782	Soil			1.06	14.76	10.64	60.6	109	409.7	35.4	502	3.71	188.6	0.4	4.8	3.0	8.9	0.41	5.40	0.17	36	0.10	0.044
1299783	Soil			1.93	26.15	14.76	70.7	455	226.7	20.1	342	3.11	216.2	0.8	19.8	4.7	9.3	0.32	6.65	0.32	29	0.09	0.042
1299784	Soil			1.09	28.75	18.03	69.4	683	507.7	23.0	351	3.80	493.7	0.8	55.7	4.9	9.2	0.33	6.95	0.23	27	0.11	0.037
1299785	Soil			0.75	18.18	11.50	48.8	159	1035	83.9	1393	5.49	217.3	0.8	8.1	1.9	7.6	0.84	7.49	0.12	39	0.09	0.108
1299786	Soil			0.95	22.66	16.27	86.1	467	271.2	15.1	276	3.56	392.5	0.7	50.4	3.1	17.4	0.38	6.28	0.20	27	0.24	0.085
1299787	Soil			1.50	28.82	14.73	104.1	1082	142.6	21.3	640	3.59	342.0	1.4	52.8	4.2	27.4	0.54	6.14	0.20	35	0.43	0.120

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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	
1299758	Soil	16.6	198.8	1.33	173.0	0.014	3	1.05	0.003	0.09	0.4	3.4	0.08	<0.02	49	0.2	0.04	2.8	1.23	<0.1	0.03
1299759	Soil	15.7	244.5	2.24	147.0	0.034	2	0.93	0.006	0.06	0.2	2.7	0.06	<0.02	23	0.1	<0.02	2.5	0.87	<0.1	0.03
1299760	Soil	14.1	253.7	1.76	216.3	0.018	3	0.94	0.006	0.08	0.4	4.0	0.09	0.02	58	0.3	0.03	2.3	1.33	<0.1	0.04
1299761	Soil	11.1	166.7	1.18	191.7	0.019	2	0.96	0.011	0.07	0.3	2.2	0.08	0.02	24	0.2	0.02	3.2	2.40	<0.1	<0.02
1299762	Soil	7.6	136.2	0.88	179.6	0.013	2	0.70	0.019	0.05	0.2	1.3	0.06	0.03	35	0.2	<0.02	2.1	1.44	<0.1	<0.02
1299763	Soil	19.9	101.6	0.70	230.1	0.018	2	0.85	0.003	0.07	0.3	1.6	0.10	<0.02	14	<0.1	0.02	3.4	1.01	<0.1	<0.02
1299764	Soil	23.6	75.8	0.77	140.1	0.032	2	0.89	0.005	0.08	0.3	2.6	0.08	<0.02	32	0.1	0.04	2.4	1.39	<0.1	0.04
1299765	Soil	13.6	127.4	0.89	372.1	0.011	2	1.63	0.006	0.10	0.6	5.2	0.30	0.07	82	0.4	0.04	4.7	2.76	<0.1	0.15
1299766	Soil	18.7	156.1	0.90	141.7	0.019	1	1.32	0.003	0.07	0.6	3.0	0.14	<0.02	22	0.2	0.04	4.0	2.04	<0.1	<0.02
1299767	Soil	18.2	97.5	0.68	283.1	0.009	2	1.53	0.003	0.09	0.4	3.3	0.15	0.03	37	0.2	0.05	4.5	2.12	<0.1	0.03
1299768	Soil	15.5	29.5	0.35	140.4	0.007	<1	0.97	0.006	0.05	0.3	1.4	0.09	0.02	28	0.2	<0.02	2.9	1.34	<0.1	<0.02
1299769	Soil	19.0	28.4	0.31	136.9	0.005	<1	1.10	0.002	0.05	0.2	1.4	0.08	<0.02	14	<0.1	0.03	3.1	1.50	<0.1	<0.02
1299770	Soil	13.6	210.9	1.54	180.9	0.016	4	1.18	0.007	0.11	0.7	4.7	0.38	0.02	228	0.2	0.03	3.2	1.67	<0.1	0.06
1299771	Soil	14.8	139.3	1.13	145.4	0.022	3	1.09	0.009	0.08	0.6	4.6	0.21	<0.02	126	0.1	0.02	2.9	1.52	<0.1	0.02
1299772	Soil	12.7	91.4	0.90	158.3	0.012	3	1.03	0.006	0.06	0.5	4.1	0.16	0.03	75	<0.1	0.03	2.8	1.20	<0.1	0.05
1299773	Soil	16.6	37.2	0.27	102.9	0.002	1	1.18	0.002	0.04	0.5	5.4	0.14	<0.02	40	0.2	0.03	2.4	2.54	<0.1	0.03
1299774	Soil	16.6	105.3	0.83	183.2	0.021	3	1.18	0.009	0.07	0.6	4.6	0.21	<0.02	79	0.1	0.02	3.3	1.60	<0.1	0.03
1299775	Soil	10.0	71.7	0.39	103.5	0.013	1	0.85	0.014	0.05	0.4	1.3	0.11	<0.02	15	<0.1	<0.02	3.1	1.29	<0.1	<0.02
1299776	Soil	11.5	296.6	3.10	121.2	0.018	5	0.71	0.007	0.05	0.6	3.8	0.08	0.02	61	<0.1	0.02	2.0	1.33	<0.1	<0.02
1299777	Soil	10.8	266.5	1.86	169.1	0.014	4	0.96	0.008	0.07	0.4	3.3	0.07	0.03	36	<0.1	0.02	2.7	1.21	<0.1	0.04
1299778	Soil	10.5	485.9	3.40	158.7	0.013	4	1.01	0.005	0.07	0.3	5.1	0.08	0.02	47	0.2	0.02	2.5	1.28	<0.1	0.03
1299779	Soil	13.0	371.1	3.55	184.3	0.016	5	1.08	0.010	0.07	0.3	5.3	0.11	<0.02	80	0.2	0.04	2.7	1.53	<0.1	0.05
1299780	Soil	11.1	529.2	4.45	236.9	0.012	5	1.12	0.005	0.08	0.4	5.7	0.11	<0.02	57	0.3	<0.02	2.6	1.67	<0.1	0.05
1299781	Soil	9.7	469.3	3.13	150.3	0.013	4	0.95	0.004	0.04	0.5	3.7	0.07	0.02	17	<0.1	0.03	2.5	1.64	<0.1	<0.02
1299782	Soil	9.8	442.3	3.00	175.9	0.009	3	1.05	0.003	0.04	0.4	3.1	0.08	<0.02	9	0.1	0.03	2.7	3.25	<0.1	0.03
1299783	Soil	15.8	221.5	1.16	206.0	0.007	2	0.86	0.004	0.05	0.4	2.9	0.08	<0.02	47	0.4	<0.02	2.5	2.04	<0.1	0.03
1299784	Soil	14.3	464.1	2.24	172.4	0.006	3	0.94	0.003	0.06	0.4	5.8	0.10	<0.02	73	0.3	0.03	2.3	1.56	<0.1	0.04
1299785	Soil	6.5	1152	6.91	174.8	0.009	10	0.96	0.005	0.04	0.5	9.0	0.09	0.05	44	0.2	0.04	2.1	2.13	<0.1	0.06
1299786	Soil	12.1	306.8	1.45	261.0	0.005	2	1.03	0.006	0.04	0.6	4.1	0.11	0.02	51	<0.1	0.05	2.8	2.68	<0.1	0.05
1299787	Soil	18.1	112.7	0.78	279.1	0.007	1	1.16	0.004	0.05	0.3	4.2	0.10	0.04	67	1.0	0.04	3.2	2.72	<0.1	0.07

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Project: Rivier  
 Report Date: November 24, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299758	Soil	0.38	11.6	1.5	<0.05	1.3	4.49	31.0	<0.02	<1	0.4	14.1	<10	<2
1299759	Soil	0.32	5.0	0.7	<0.05	0.9	5.20	28.5	<0.02	1	0.3	12.2	<10	<2
1299760	Soil	0.42	6.5	1.8	<0.05	1.3	7.51	25.5	<0.02	<1	0.5	13.1	<10	<2
1299761	Soil	0.49	10.8	2.3	<0.05	0.5	3.74	20.6	<0.02	<1	0.4	11.5	<10	<2
1299762	Soil	0.25	5.5	0.9	<0.05	0.2	3.49	13.7	<0.02	<1	0.2	7.6	<10	<2
1299763	Soil	0.44	13.0	1.3	<0.05	0.1	3.37	36.0	<0.02	<1	0.2	12.1	<10	<2
1299764	Soil	0.35	8.1	0.9	<0.05	1.9	9.90	43.3	<0.02	<1	0.4	16.1	<10	<2
1299765	Soil	0.86	15.0	3.1	<0.05	4.4	8.42	25.0	0.04	<1	0.9	15.0	<10	<2
1299766	Soil	0.71	17.9	1.1	<0.05	0.7	3.98	34.7	0.03	<1	0.6	19.1	<10	<2
1299767	Soil	0.84	16.0	2.5	<0.05	1.2	6.09	32.5	0.04	<1	0.4	15.0	<10	<2
1299768	Soil	0.36	11.8	1.0	<0.05	0.2	4.54	28.6	<0.02	<1	0.2	12.6	<10	<2
1299769	Soil	0.28	11.6	0.7	<0.05	0.4	4.76	35.1	<0.02	<1	0.2	17.2	<10	<2
1299770	Soil	0.68	8.7	1.9	<0.05	2.0	7.63	27.6	0.04	1	0.8	14.2	<10	<2
1299771	Soil	0.73	8.5	2.8	<0.05	1.0	7.96	30.9	<0.02	1	0.7	13.2	<10	<2
1299772	Soil	0.68	7.0	3.0	<0.05	1.5	7.51	25.4	0.02	<1	0.6	13.1	<10	<2
1299773	Soil	0.45	8.0	1.0	<0.05	1.1	7.66	35.4	0.04	<1	0.6	13.5	<10	<2
1299774	Soil	0.53	8.0	1.0	<0.05	1.2	9.16	34.8	0.02	1	0.7	14.9	<10	<2
1299775	Soil	0.28	8.0	0.9	<0.05	<0.1	2.77	22.5	<0.02	<1	0.4	11.6	<10	<2
1299776	Soil	0.38	5.0	0.5	<0.05	1.3	6.80	23.4	0.02	<1	0.3	9.3	<10	<2
1299777	Soil	0.47	6.9	2.6	<0.05	1.0	5.91	22.1	0.02	<1	0.5	12.2	<10	<2
1299778	Soil	0.26	5.5	1.0	<0.05	1.5	5.92	22.3	<0.02	<1	0.4	13.0	<10	<2
1299779	Soil	0.22	5.8	0.8	<0.05	2.2	8.26	26.2	0.03	2	0.6	15.0	<10	<2
1299780	Soil	0.20	5.8	0.5	<0.05	1.4	7.07	22.9	0.02	1	0.4	15.1	<10	<2
1299781	Soil	0.29	6.1	0.4	<0.05	0.8	3.24	20.7	<0.02	<1	0.4	14.6	<10	2
1299782	Soil	0.24	7.6	0.3	<0.05	0.9	2.92	21.6	0.02	<1	0.4	14.5	<10	<2
1299783	Soil	0.28	6.3	0.5	<0.05	1.2	5.06	32.0	<0.02	<1	0.5	10.6	<10	3
1299784	Soil	0.21	6.4	0.3	<0.05	1.9	7.74	27.8	0.03	<1	0.6	10.8	<10	2
1299785	Soil	0.18	5.0	0.5	<0.05	1.2	7.66	15.6	<0.02	<1	0.4	13.0	<10	2
1299786	Soil	0.26	8.3	0.5	<0.05	1.1	6.76	23.8	0.03	<1	0.6	10.7	<10	<2
1299787	Soil	0.45	7.9	0.7	<0.05	2.0	9.01	38.1	0.03	2	0.6	12.9	<10	<2



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Project: Rivier  
 Report Date: November 24, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	ppb	ppm	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	0.1	0.1	0.1	0.2	0.01	0.02	0.02	2	0.01	0.001
1299788	Soil	1.06	17.09	13.51	87.4	576	53.4	12.7	404	2.63	205.7	1.1	12.0	1.6	19.4	0.23	4.20	0.21	29	0.30	0.135	
1299789	Soil	2.00	21.74	20.80	66.6	285	121.9	20.0	644	5.79	1734	0.9	37.4	1.5	18.9	0.23	15.57	0.29	27	0.25	0.094	
1299790	Soil	1.25	12.19	9.82	43.3	579	22.9	6.7	295	1.88	98.0	1.0	13.7	0.5	15.9	0.14	2.36	0.17	18	0.28	0.102	
1299791	Soil	4.65	35.92	21.06	92.9	1056	44.0	7.4	92	3.18	122.3	5.5	14.3	3.6	25.1	1.14	5.60	0.29	27	0.33	0.146	
1299792	Soil	1.33	42.78	10.89	99.8	424	85.6	21.4	672	3.64	140.0	0.8	45.2	6.9	23.7	0.25	2.18	0.19	48	0.40	0.113	
1299793	Soil	2.48	25.56	12.33	132.3	365	108.3	21.8	466	4.02	76.4	1.3	4.9	3.7	50.3	0.60	1.45	0.12	70	0.85	0.254	
1299794	Soil	2.09	25.63	19.16	71.7	138	47.7	12.0	478	3.95	137.2	1.9	5.5	1.7	45.1	0.22	3.34	0.33	34	0.77	0.094	
1299795	Soil	1.33	13.56	15.15	80.4	230	27.8	7.1	299	2.58	87.8	2.4	2.5	1.9	42.4	0.25	1.15	0.25	27	0.68	0.147	
1299796	Soil	1.41	28.84	12.53	110.6	344	64.1	10.8	364	3.02	54.0	4.4	3.8	1.6	47.7	0.46	1.64	0.24	35	0.69	0.181	
1299797	Soil	1.28	14.99	8.24	39.6	130	23.0	4.6	322	1.42	47.7	1.2	2.9	0.4	19.6	0.26	1.23	0.14	18	0.29	0.079	
1299798	Soil	1.79	59.42	19.92	187.4	449	64.5	10.9	374	2.60	77.5	2.8	10.2	3.7	26.8	1.31	2.05	0.21	25	0.41	0.081	
1299799	Soil	3.03	55.45	14.01	98.8	502	39.4	7.6	314	3.06	78.6	6.3	9.0	2.7	22.4	0.74	1.72	0.29	27	0.29	0.194	
1299800	Soil	3.17	23.76	15.10	68.1	126	31.8	7.0	312	2.76	108.1	1.1	24.1	0.8	24.2	0.50	3.01	0.31	30	0.28	0.130	
1299801	Soil	1.31	30.37	11.23	80.1	213	55.5	14.9	549	2.80	30.6	1.0	5.7	1.7	12.7	0.57	1.27	0.18	39	0.18	0.090	
1299802	Soil	2.04	75.94	16.52	151.0	212	79.8	27.6	916	2.99	43.0	1.5	5.0	5.7	18.0	1.39	2.03	0.24	38	0.23	0.106	
1299803	Soil	2.62	45.33	15.10	108.8	265	37.0	12.7	467	2.85	76.4	1.4	12.7	6.7	18.4	0.48	5.06	0.21	30	0.20	0.079	
1299804	Soil	1.53	32.44	10.95	85.2	212	56.2	12.7	651	2.83	38.6	1.0	4.5	6.9	20.6	0.42	2.23	0.17	36	0.27	0.105	
1299805	Soil	1.22	27.45	12.60	79.3	263	77.4	12.8	411	2.98	104.1	1.0	13.8	7.4	20.4	0.31	2.92	0.19	33	0.31	0.109	
1299806	Soil	2.43	31.14	43.42	50.0	761	19.8	17.0	780	3.02	1243	1.6	108.2	42.6	73.1	0.27	13.14	0.47	5	0.29	0.113	
1299807	Soil	1.17	23.83	9.40	70.6	380	1750	97.4	1074	5.43	157.7	0.4	25.6	2.7	48.3	0.44	3.90	0.11	45	1.49	0.040	
1299808	Soil	1.07	25.86	14.74	59.7	330	822.6	54.4	842	5.73	242.5	0.7	15.0	3.7	9.6	0.39	4.50	0.16	45	0.18	0.049	
1299809	Soil	1.07	13.67	10.88	68.6	130	313.1	34.4	594	4.05	217.7	0.5	4.7	1.8	9.3	0.29	2.76	0.18	40	0.14	0.062	
1299810	Soil	1.09	15.16	20.82	101.5	418	45.8	10.6	749	2.52	120.8	5.6	4.7	2.3	29.5	0.98	0.79	0.26	23	0.53	0.101	
1299811	Soil	0.70	4.97	9.66	27.1	175	9.7	3.7	92	1.14	22.8	0.6	1.9	0.2	7.3	0.11	0.19	0.15	18	0.11	0.045	
1299812	Soil	3.39	88.74	47.84	105.0	1895	46.5	14.6	413	3.42	123.8	3.0	24.2	7.5	12.6	0.59	7.98	0.32	21	0.19	0.089	
1299813	Soil	1.01	17.99	17.24	56.0	147	39.7	11.7	410	2.21	59.6	1.3	6.6	5.9	12.5	0.23	0.74	0.23	25	0.24	0.085	
1299814	Soil	1.23	15.45	15.76	65.6	268	25.1	10.6	416	2.28	50.8	1.4	4.5	3.4	7.7	0.26	0.61	0.24	27	0.13	0.066	
1299815	Soil	1.40	14.03	20.97	43.3	841	15.2	5.8	201	1.86	39.7	1.0	4.7	0.7	6.4	0.15	0.99	0.21	27	0.08	0.061	
1299816	Soil	1.32	21.79	21.43	83.5	552	374.2	40.6	722	3.58	128.2	1.0	8.0	2.1	13.4	0.38	2.89	0.19	31	0.19	0.093	
1299817	Soil	0.28	5.53	3.11	17.9	105	129.4	8.0	105	0.98	10.7	0.4	0.2	0.1	8.3	0.09	0.57	0.05	15	0.08	0.038	



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Project: Rivier  
Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1299788	Soil	12.5	57.9	0.44	288.8	0.007	1	1.03	0.007	0.04	0.3	1.8	0.12	0.05	54	0.5	<0.02	3.0	2.33	<0.1	0.03
1299789	Soil	10.0	126.7	0.70	253.6	0.005	1	0.82	0.006	0.04	0.7	1.7	0.10	0.03	28	0.5	0.05	2.4	1.93	<0.1	<0.02
1299790	Soil	7.1	29.7	0.20	201.9	0.005	<1	0.73	0.023	0.04	0.2	0.9	0.10	0.04	33	0.5	0.02	2.5	2.06	<0.1	<0.02
1299791	Soil	15.5	76.0	0.43	569.5	0.004	1	1.18	0.003	0.05	0.3	3.9	0.18	0.07	80	2.6	<0.02	2.9	5.29	<0.1	0.12
1299792	Soil	20.6	117.0	1.25	347.2	0.049	<1	1.67	0.004	0.05	0.2	4.6	0.09	<0.02	49	0.1	<0.02	5.2	2.30	<0.1	0.04
1299793	Soil	20.5	201.9	2.13	219.0	0.036	1	2.07	0.003	0.03	0.2	4.4	0.05	0.03	34	0.7	0.03	6.7	7.24	<0.1	0.06
1299794	Soil	12.1	77.7	0.63	348.9	0.008	1	1.03	0.003	0.04	0.3	2.2	0.07	0.06	27	0.8	0.03	3.7	2.24	<0.1	0.04
1299795	Soil	13.1	49.9	0.46	486.7	0.005	<1	1.21	0.003	0.05	0.3	1.6	0.11	0.07	13	0.4	<0.02	3.8	3.73	<0.1	0.05
1299796	Soil	18.3	97.3	0.82	472.6	0.009	2	1.31	0.006	0.06	0.3	3.0	0.08	0.11	30	0.9	<0.02	3.8	14.44	<0.1	0.05
1299797	Soil	9.6	28.2	0.23	200.2	0.006	<1	0.66	0.016	0.05	0.2	0.6	0.07	0.05	19	0.3	0.02	2.3	4.04	<0.1	<0.02
1299798	Soil	16.9	49.0	0.48	350.2	0.008	1	0.99	0.004	0.11	0.2	2.7	0.11	0.02	28	0.6	0.04	2.3	2.26	<0.1	0.04
1299799	Soil	19.5	47.5	0.37	656.6	0.004	<1	1.56	0.002	0.05	0.3	5.4	0.19	0.06	50	0.9	0.02	3.6	5.89	<0.1	0.14
1299800	Soil	13.4	41.7	0.25	284.5	0.006	<1	0.70	0.003	0.07	0.2	0.9	0.09	0.06	11	0.4	<0.02	3.0	11.41	<0.1	<0.02
1299801	Soil	22.9	63.5	0.70	187.4	0.019	1	1.38	0.006	0.05	0.2	2.2	0.10	<0.02	38	0.2	<0.02	3.8	1.93	<0.1	<0.02
1299802	Soil	20.5	61.0	0.68	191.5	0.030	1	1.26	0.004	0.07	0.2	2.6	0.11	<0.02	30	0.4	0.06	3.5	1.76	<0.1	0.02
1299803	Soil	25.3	32.0	0.36	177.2	0.015	2	0.90	0.004	0.06	0.3	2.4	0.11	<0.02	39	0.6	0.03	2.5	1.72	<0.1	0.02
1299804	Soil	23.9	52.3	0.65	224.2	0.029	<1	1.08	0.005	0.06	0.2	3.1	0.08	<0.02	45	0.1	0.03	3.3	1.51	<0.1	0.04
1299805	Soil	24.8	72.7	0.82	173.5	0.031	2	1.00	0.006	0.06	0.2	3.3	0.08	<0.02	33	0.1	0.04	3.0	1.58	<0.1	0.04
1299806	Soil	49.7	5.0	0.28	325.1	0.001	3	0.52	0.003	0.24	0.2	2.7	0.14	0.03	35	0.4	0.05	1.4	9.00	<0.1	0.15
1299807	Soil	9.3	974.4	5.90	216.1	0.006	2	1.21	0.005	0.05	2.1	10.0	0.10	0.02	56	0.5	0.04	2.4	9.57	<0.1	0.04
1299808	Soil	10.8	945.6	4.45	142.3	0.010	5	1.05	0.005	0.05	0.5	12.5	0.06	0.03	37	0.5	0.03	2.2	3.19	<0.1	0.05
1299809	Soil	8.8	566.1	3.16	149.2	0.020	4	0.79	0.005	0.04	0.5	3.4	0.06	0.05	24	0.5	0.03	2.9	1.95	<0.1	0.04
1299810	Soil	17.9	34.0	0.41	378.2	0.009	1	1.08	0.008	0.10	0.3	1.8	0.13	0.11	27	1.3	<0.02	3.0	4.66	<0.1	0.06
1299811	Soil	15.9	16.7	0.17	84.4	0.005	<1	0.67	0.003	0.08	0.2	0.3	0.10	<0.02	13	0.3	<0.02	2.7	1.70	<0.1	<0.02
1299812	Soil	27.6	22.6	0.28	103.3	0.014	<1	0.76	0.003	0.08	0.2	2.3	0.06	<0.02	15	0.8	0.07	2.2	2.32	<0.1	<0.02
1299813	Soil	23.6	33.0	0.36	127.2	0.022	<1	0.84	0.004	0.11	0.3	2.2	0.10	<0.02	14	0.1	0.02	2.3	1.74	<0.1	<0.02
1299814	Soil	22.9	30.4	0.32	78.7	0.020	<1	0.98	0.003	0.09	0.2	1.9	0.11	<0.02	16	0.3	0.03	2.7	1.98	<0.1	<0.02
1299815	Soil	19.2	24.2	0.26	59.1	0.010	<1	1.06	0.005	0.07	0.2	0.9	0.12	<0.02	20	0.5	0.04	3.2	1.93	<0.1	<0.02
1299816	Soil	16.3	357.8	3.21	117.2	0.012	4	0.99	0.005	0.08	0.6	2.9	0.07	0.03	39	0.5	0.03	2.6	2.49	<0.1	<0.02
1299817	Soil	4.0	140.5	1.10	72.6	0.014	2	0.43	0.019	0.03	0.2	0.9	0.03	<0.02	14	0.3	<0.02	1.6	0.61	<0.1	<0.02

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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299788	Soil	0.39	6.8	0.4	<0.05	1.0	5.73	25.7	0.02	<1	0.4	7.8	<10	<2
1299789	Soil	0.27	8.0	0.8	<0.05	<0.1	3.95	20.4	0.04	<1	0.4	6.9	<10	<2
1299790	Soil	0.22	8.4	0.7	<0.05	0.3	3.40	14.5	<0.02	<1	0.3	4.8	<10	<2
1299791	Soil	0.33	10.2	0.6	<0.05	3.0	12.15	31.7	0.04	1	0.7	8.9	<10	<2
1299792	Soil	0.95	6.6	1.0	<0.05	2.9	9.15	39.3	0.04	<1	0.6	20.5	<10	<2
1299793	Soil	1.61	4.7	1.0	<0.05	1.9	7.79	42.2	0.04	<1	0.4	31.1	<10	<2
1299794	Soil	0.58	7.9	0.6	<0.05	1.1	3.53	25.3	<0.02	1	0.4	10.7	<10	<2
1299795	Soil	0.49	10.9	0.6	<0.05	1.2	4.88	28.0	<0.02	1	0.4	12.2	<10	<2
1299796	Soil	0.64	7.7	0.5	<0.05	2.0	14.27	30.2	0.03	<1	0.7	14.0	<10	<2
1299797	Soil	0.30	7.0	0.5	<0.05	0.4	3.25	19.2	<0.02	<1	0.2	5.4	<10	<2
1299798	Soil	0.35	10.0	0.8	<0.05	1.3	12.14	34.1	0.03	2	0.6	11.5	<10	<2
1299799	Soil	0.40	12.9	0.6	<0.05	3.1	16.92	31.5	0.03	1	0.6	15.5	<10	<2
1299800	Soil	0.29	8.8	1.6	<0.05	0.3	3.85	26.3	<0.02	<1	0.1	4.6	<10	<2
1299801	Soil	0.41	7.2	0.4	<0.05	0.2	8.26	47.9	0.03	<1	0.6	16.1	<10	<2
1299802	Soil	0.49	8.8	0.5	<0.05	1.1	8.70	45.7	0.03	<1	0.5	15.1	<10	<2
1299803	Soil	0.40	7.8	0.3	<0.05	1.2	6.88	51.8	0.03	<1	0.5	8.9	<10	<2
1299804	Soil	0.41	6.0	0.5	<0.05	3.9	9.96	47.2	0.03	<1	0.4	12.2	<10	<2
1299805	Soil	0.39	6.1	0.3	<0.05	4.0	9.84	49.0	0.02	<1	0.5	13.2	<10	<2
1299806	Soil	0.15	12.0	0.6	<0.05	9.0	14.24	95.2	0.07	<1	0.6	8.0	<10	<2
1299807	Soil	0.24	7.4	0.3	<0.05	1.8	6.77	16.5	0.02	1	1.7	23.5	<10	4
1299808	Soil	0.19	5.5	0.3	<0.05	1.9	7.75	20.2	0.03	1	0.4	14.9	<10	5
1299809	Soil	0.45	9.5	0.3	<0.05	1.2	2.92	17.4	<0.02	<1	0.2	9.3	<10	<2
1299810	Soil	0.44	16.9	0.2	<0.05	1.7	12.34	31.9	<0.02	<1	0.8	21.3	<10	<2
1299811	Soil	0.10	13.3	0.4	<0.05	<0.1	2.46	31.0	<0.02	<1	0.3	7.5	<10	<2
1299812	Soil	0.19	7.7	0.2	<0.05	0.7	8.87	51.5	<0.02	<1	0.6	12.1	<10	<2
1299813	Soil	0.36	11.7	0.3	<0.05	0.6	9.45	47.2	<0.02	<1	0.4	13.4	<10	<2
1299814	Soil	0.35	12.4	0.3	<0.05	0.3	7.05	44.2	<0.02	<1	0.5	15.1	<10	<2
1299815	Soil	0.26	13.7	0.4	<0.05	<0.1	4.04	38.2	0.02	<1	0.3	13.0	<10	<2
1299816	Soil	0.22	9.9	0.3	<0.05	0.5	6.93	33.4	<0.02	<1	0.7	15.2	<10	<2
1299817	Soil	0.12	3.1	0.2	<0.05	0.1	1.75	7.6	<0.02	<1	<0.1	3.0	<10	<2

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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				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
1299818	Soil			0.56	16.99	6.86	50.7	129	695.4	30.0	287	2.86	33.5	0.5	2.2	1.5	14.9	0.21	1.93	0.11	35	0.33	0.066
1299819	Soil			1.13	25.98	10.49	72.9	201	529.4	32.4	501	2.67	49.0	0.8	3.7	2.1	17.1	0.49	2.42	0.18	40	0.29	0.079
1299820	Soil			0.98	19.08	9.47	58.6	122	294.7	24.7	380	2.50	41.2	0.9	8.3	4.7	14.5	0.37	1.96	0.16	38	0.21	0.049
1299821	Soil			0.87	19.31	8.13	57.0	143	383.9	27.2	393	2.66	38.2	0.7	3.9	3.4	13.1	0.33	1.86	0.14	38	0.19	0.042
1299822	Soil			0.89	23.99	11.11	71.2	266	659.2	30.1	382	3.15	68.5	0.7	4.5	2.7	12.5	0.28	5.70	0.18	38	0.22	0.062
1299823	Soil			0.31	21.11	8.08	55.8	181	662.2	32.4	311	2.29	34.1	0.6	5.3	2.0	17.2	0.22	3.18	0.14	33	0.32	0.048
1299824	Soil			1.16	28.03	14.00	94.0	449	491.6	31.4	365	3.28	131.5	0.7	13.1	4.4	14.3	0.33	6.38	0.23	35	0.23	0.053
1299825	Soil			1.14	25.63	10.88	68.9	555	561.6	29.5	465	3.18	359.0	0.9	25.3	4.0	23.6	0.33	21.54	0.14	38	0.39	0.053
1299826	Soil			1.73	52.59	18.73	87.4	903	877.0	42.9	768	5.28	1165	1.1	95.3	5.3	21.3	0.45	40.79	0.22	35	0.25	0.060
1299827	Soil			3.41	54.06	20.71	116.2	595	120.9	22.9	623	3.50	262.4	1.9	24.8	10.0	13.7	0.63	5.68	0.29	18	0.13	0.061
1299828	Soil			1.98	38.30	28.62	94.7	219	139.0	24.7	697	4.11	251.3	1.2	14.2	6.0	16.3	0.42	6.89	0.27	37	0.25	0.074
1299829	Soil			2.06	73.49	25.46	126.4	879	135.4	29.0	1073	4.92	742.1	1.2	54.3	10.3	18.4	0.74	11.93	0.42	31	0.26	0.088
1299830	Soil			2.30	37.73	25.76	114.3	701	100.2	20.4	630	4.31	545.5	1.1	44.5	7.5	29.1	0.45	7.77	0.32	15	0.44	0.113
1299831	Soil			1.30	75.57	11.63	107.9	694	433.8	59.2	512	6.18	465.7	0.7	1116	5.7	31.9	0.36	25.47	0.15	37	0.51	0.076
1299832	Soil			1.15	114.2	21.53	151.4	4611	185.2	57.3	2260	7.51	4630	1.9	863.3	6.2	24.3	1.33	19.59	0.22	14	0.41	0.054
1299833	Soil			2.72	118.6	25.82	239.5	1926	171.2	30.8	1140	5.56	279.7	7.3	42.1	4.3	48.2	2.29	8.09	0.47	30	0.86	0.130
1299834	Soil			3.59	30.38	16.84	199.2	165	29.5	12.2	398	3.77	80.1	1.6	8.7	10.2	7.2	0.25	3.19	0.34	6	0.05	0.029
1299835	Soil			2.42	63.73	15.24	164.6	319	134.4	31.6	848	5.88	83.8	1.9	7.5	9.0	26.4	1.17	1.59	0.31	54	0.46	0.151
1299836	Soil			1.13	34.67	14.84	88.6	61	84.8	16.4	253	2.84	22.0	0.9	3.0	5.8	17.9	0.31	0.90	0.18	44	0.30	0.084
1299837	Soil			3.93	63.31	32.09	119.6	239	401.5	30.6	598	5.09	193.1	1.9	4.1	9.3	12.6	0.42	1.67	0.46	31	0.21	0.058
1299838	Soil			1.09	26.33	13.46	80.9	133	387.2	23.7	372	3.07	112.7	0.9	4.4	3.9	14.5	0.35	2.00	0.21	38	0.21	0.049
1299839	Soil			0.99	12.83	8.49	38.5	483	92.6	11.4	425	1.31	24.6	0.8	2.4	0.1	9.6	0.21	0.68	0.13	23	0.11	0.054
1299840	Soil			1.09	18.00	12.84	65.8	61	109.5	12.8	364	2.42	43.4	1.1	2.5	4.2	13.6	0.35	1.14	0.22	37	0.21	0.069
1299841	Soil			1.27	37.50	19.94	101.4	970	502.8	37.5	746	3.76	353.7	1.1	38.5	4.3	24.6	0.56	5.82	0.17	25	0.41	0.110
1299842	Soil			0.10	17.11	3.36	15.3	106	2971	215.0	1908	3.05	31.5	0.1	4.9	0.2	2.7	0.08	0.64	0.06	28	0.05	0.015
1299843	Soil			0.73	14.48	7.78	47.1	71	440.0	23.8	371	2.46	20.6	0.7	2.2	1.7	9.3	0.27	0.82	0.17	28	0.11	0.047
1299844	Soil			0.29	14.10	4.07	29.9	88	1369	54.5	415	2.62	5.5	0.4	2.9	1.0	4.9	0.13	0.33	0.09	25	0.11	0.029
1299845	Soil			0.81	15.60	5.48	42.3	107	728.1	27.4	259	2.54	10.3	0.6	3.5	2.3	7.3	0.23	0.61	0.12	28	0.09	0.022
1299846	Soil			0.45	17.48	4.53	27.3	82	1550	70.4	696	3.11	9.5	0.4	5.9	1.0	4.7	0.14	0.37	0.08	28	0.09	0.037
1299847	Soil			0.07	7.75	7.09	31.8	54	292.4	14.1	122	1.33	3.2	0.5	3.3	2.3	8.2	0.11	0.58	0.11	17	0.14	0.029

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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		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
1299818	Soil	9.6	509.0	4.71	137.9	0.022	11	0.90	0.010	0.05	0.5	4.0	0.06	0.05	29	0.5	<0.02	2.4	1.54	<0.1	0.03
1299819	Soil	11.3	297.5	2.99	228.7	0.024	7	1.07	0.010	0.08	0.5	3.9	0.09	0.07	42	0.5	0.03	3.1	1.16	<0.1	0.09
1299820	Soil	16.5	228.4	2.17	153.5	0.050	3	0.87	0.009	0.05	0.2	3.6	0.06	<0.02	24	0.3	0.03	2.7	0.72	<0.1	<0.02
1299821	Soil	12.7	291.7	2.78	118.3	0.043	4	0.90	0.011	0.06	0.3	4.2	0.06	<0.02	25	0.2	<0.02	2.5	0.80	<0.1	0.04
1299822	Soil	12.5	474.0	3.52	162.0	0.016	9	1.00	0.007	0.06	0.9	5.4	0.11	0.05	60	0.4	<0.02	2.6	1.41	<0.1	0.05
1299823	Soil	9.3	531.6	4.72	143.3	0.015	12	0.89	0.008	0.05	0.5	4.8	0.07	0.06	42	0.4	0.03	2.3	1.05	<0.1	0.05
1299824	Soil	14.1	398.5	2.57	140.8	0.010	7	0.93	0.005	0.06	0.7	6.1	0.06	0.03	71	0.5	<0.02	2.5	2.00	<0.1	0.09
1299825	Soil	13.3	232.7	3.34	118.6	0.035	6	0.82	0.012	0.06	0.6	5.2	0.20	0.02	64	0.3	0.03	2.5	1.46	<0.1	0.04
1299826	Soil	14.4	305.3	1.87	181.5	0.006	5	0.76	0.005	0.07	1.0	8.7	0.33	0.04	116	0.8	0.04	2.1	2.86	0.1	0.10
1299827	Soil	24.5	66.3	0.32	158.4	0.003	2	0.67	0.003	0.05	0.4	3.7	0.08	<0.02	40	1.0	0.05	1.8	1.58	<0.1	0.05
1299828	Soil	22.2	96.7	0.67	178.6	0.012	2	1.04	0.004	0.05	0.4	3.8	0.11	<0.02	30	0.6	0.03	3.0	1.92	<0.1	0.02
1299829	Soil	29.5	63.2	0.51	234.0	0.012	2	0.92	0.003	0.05	0.4	5.1	0.11	<0.02	54	0.8	0.11	2.6	2.62	<0.1	0.04
1299830	Soil	22.7	57.0	0.30	124.9	0.002	3	0.54	0.004	0.05	0.6	3.6	0.09	0.03	41	0.9	<0.02	1.4	2.37	<0.1	0.05
1299831	Soil	17.2	126.0	1.04	133.1	0.009	3	0.80	0.005	0.07	0.5	9.4	0.13	<0.02	55	0.3	0.04	2.3	4.55	<0.1	0.03
1299832	Soil	16.4	25.7	0.13	235.7	0.001	3	0.29	0.003	0.07	0.4	10.0	0.11	0.04	59	0.6	0.03	0.7	3.43	<0.1	0.06
1299833	Soil	13.2	70.9	0.64	232.7	0.007	4	1.10	0.006	0.09	0.4	5.7	0.18	0.12	134	2.1	0.04	2.6	6.55	<0.1	0.17
1299834	Soil	39.2	8.6	0.09	114.1	<0.001	<1	0.40	0.002	0.05	0.3	1.9	0.10	<0.02	15	0.7	0.04	1.0	2.36	<0.1	0.07
1299835	Soil	52.8	163.2	1.30	203.3	0.006	2	1.71	0.004	0.05	0.3	8.9	0.09	0.03	45	0.8	0.03	5.0	13.59	<0.1	0.09
1299836	Soil	33.3	107.7	1.05	223.0	0.032	<1	1.55	0.005	0.06	0.2	3.6	0.12	<0.02	20	0.3	0.02	4.7	2.83	<0.1	<0.02
1299837	Soil	34.8	229.9	1.93	102.4	0.004	1	2.13	0.003	0.07	0.4	4.6	0.04	0.03	34	1.1	0.10	5.2	14.04	0.1	0.15
1299838	Soil	17.3	266.7	1.66	108.5	0.028	2	1.26	0.006	0.08	0.4	3.9	0.08	0.02	17	0.2	<0.02	3.6	3.34	<0.1	0.02
1299839	Soil	14.9	91.6	0.41	86.1	0.012	<1	0.80	0.021	0.04	0.1	0.6	0.07	0.04	29	0.9	0.03	2.7	2.79	<0.1	<0.02
1299840	Soil	20.6	83.5	0.68	148.5	0.036	1	1.13	0.006	0.06	0.3	2.4	0.09	<0.02	19	0.2	0.03	3.2	1.52	<0.1	<0.02
1299841	Soil	19.6	306.8	2.48	108.5	0.008	6	0.59	0.004	0.08	0.6	4.3	0.09	0.05	67	0.6	0.03	1.7	3.03	<0.1	0.03
1299842	Soil	2.0	1141	18.27	71.4	0.004	31	0.47	0.006	0.01	0.1	6.0	0.14	0.05	23	0.3	<0.02	1.1	0.65	0.2	<0.02
1299843	Soil	8.6	386.6	3.46	91.5	0.020	6	0.74	0.010	0.05	0.3	3.1	0.05	0.03	14	0.2	<0.02	2.0	0.56	<0.1	0.02
1299844	Soil	4.6	1056	11.42	50.9	0.010	27	0.55	0.009	0.03	0.2	4.0	0.04	0.03	8	0.3	<0.02	1.3	0.29	<0.1	0.03
1299845	Soil	8.3	601.3	5.58	75.4	0.018	10	0.63	0.010	0.03	0.3	3.6	0.04	<0.02	18	0.2	<0.02	1.6	0.32	<0.1	0.02
1299846	Soil	4.0	1206	12.81	63.2	0.011	30	0.61	0.010	0.03	0.4	5.7	0.04	0.03	21	0.2	<0.02	1.4	0.30	<0.1	0.02
1299847	Soil	7.5	401.1	2.89	104.5	0.014	7	0.75	0.007	0.04	0.2	3.0	0.04	0.03	13	0.2	<0.02	2.0	0.31	<0.1	0.02

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Project: Rivier  
 Report Date: November 24, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299818	Soil	0.45	6.7	0.3	<0.05	1.2	5.24	16.6	0.02	<1	0.2	8.4	<10	<2
1299819	Soil	0.81	8.4	0.7	<0.05	2.5	7.16	20.9	<0.02	<1	0.5	11.5	<10	<2
1299820	Soil	0.46	5.3	0.3	<0.05	1.6	6.13	32.3	<0.02	<1	0.5	11.1	<10	<2
1299821	Soil	0.52	5.3	0.4	<0.05	1.6	4.99	25.2	<0.02	<1	0.4	10.7	<10	<2
1299822	Soil	0.51	8.1	0.3	<0.05	2.0	6.57	22.7	0.02	<1	0.4	11.8	<10	3
1299823	Soil	0.46	5.6	0.3	<0.05	1.6	5.22	17.8	<0.02	<1	0.3	10.1	<10	4
1299824	Soil	0.38	6.9	0.3	<0.05	3.3	5.89	25.7	<0.02	<1	0.4	12.4	<10	<2
1299825	Soil	0.56	6.0	0.4	<0.05	1.7	6.15	25.4	<0.02	1	0.6	10.5	<10	<2
1299826	Soil	0.31	7.7	0.3	<0.05	3.1	8.73	27.0	<0.02	<1	0.7	8.6	<10	<2
1299827	Soil	0.21	6.1	0.2	<0.05	2.7	7.30	47.0	0.03	<1	0.4	8.6	<10	2
1299828	Soil	0.56	7.8	0.3	<0.05	1.5	6.75	42.7	0.02	<1	0.5	13.1	<10	<2
1299829	Soil	0.47	7.0	0.3	<0.05	2.9	13.66	56.1	0.03	<1	0.6	9.8	<10	2
1299830	Soil	0.16	7.3	0.2	<0.05	2.2	9.97	41.6	<0.02	<1	0.5	3.8	<10	<2
1299831	Soil	0.41	8.4	0.3	<0.05	2.0	10.36	32.0	0.04	<1	0.9	10.0	<10	<2
1299832	Soil	0.11	6.5	0.1	<0.05	2.2	11.67	29.9	0.04	<1	0.7	1.6	<10	<2
1299833	Soil	0.67	11.3	0.4	<0.05	5.3	23.27	22.1	0.04	<1	0.9	9.5	<10	<2
1299834	Soil	<0.02	7.6	0.1	<0.05	4.1	4.06	74.7	0.02	1	0.5	1.3	<10	<2
1299835	Soil	0.29	8.1	0.5	<0.05	4.6	16.55	90.8	0.04	<1	1.0	23.7	<10	<2
1299836	Soil	0.70	8.8	0.4	<0.05	0.4	6.42	64.6	<0.02	<1	0.4	22.7	<10	<2
1299837	Soil	0.16	8.4	0.7	<0.05	5.2	10.69	69.7	0.03	<1	0.7	41.1	<10	<2
1299838	Soil	0.53	10.5	0.9	<0.05	1.1	6.00	33.2	<0.02	<1	0.4	20.0	<10	<2
1299839	Soil	0.18	7.4	0.3	<0.05	0.1	5.10	32.4	<0.02	<1	0.4	6.8	<10	<2
1299840	Soil	0.55	8.9	0.5	<0.05	0.7	7.15	42.0	<0.02	<1	0.6	16.0	<10	<2
1299841	Soil	0.23	7.4	0.3	<0.05	1.4	10.53	36.8	0.03	<1	0.4	7.8	<10	<2
1299842	Soil	0.03	0.9	0.6	<0.05	0.3	3.70	1.5	0.03	<1	<0.1	10.6	<10	5
1299843	Soil	0.39	5.4	0.4	<0.05	0.9	4.21	17.8	<0.02	<1	0.2	9.0	<10	<2
1299844	Soil	0.13	3.1	0.4	<0.05	0.6	2.94	8.3	<0.02	<1	<0.1	5.2	<10	2
1299845	Soil	0.20	3.1	0.4	<0.05	0.8	3.36	15.3	<0.02	<1	0.2	6.7	<10	<2
1299846	Soil	0.12	2.6	1.1	<0.05	0.7	3.16	7.6	<0.02	<1	0.1	4.3	<10	3
1299847	Soil	0.39	4.0	0.4	<0.05	0.7	2.65	14.2	<0.02	<1	0.2	8.6	<10	<2



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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				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
1299848	Soil			0.17	8.02	6.60	37.2	56	355.0	19.2	195	2.13	9.0	0.5	1.4	1.6	8.8	0.16	0.69	0.14	25	0.14	0.036
1299849	Soil			0.12	10.67	5.66	43.1	200	557.7	24.0	216	1.66	23.2	0.5	5.7	1.6	14.0	0.11	2.66	0.11	20	0.33	0.055
1299850	Soil			0.48	22.10	6.96	47.9	146	1280	84.3	1356	5.34	55.1	0.5	2.9	1.2	16.3	0.35	2.25	0.15	36	0.28	0.071
1299851	Soil			2.64	52.15	28.92	129.2	652	62.7	17.7	604	3.28	72.7	1.4	10.3	4.6	32.9	0.58	6.40	0.23	35	0.46	0.163
1299852	Soil			0.61	11.37	6.38	33.6	1034	15.1	3.7	142	0.86	24.3	0.7	6.6	<0.1	9.1	0.19	1.07	0.10	13	0.11	0.073
1299853	Soil			1.31	30.00	15.92	144.0	1772	49.0	8.1	435	2.54	198.0	4.7	20.0	1.1	60.5	1.20	4.57	0.27	29	1.14	0.230
1299854	Soil			1.51	12.25	11.81	72.0	98	22.4	5.9	156	2.00	27.9	0.5	1.7	1.2	21.2	0.49	1.26	0.21	40	0.33	0.075
1299855	Soil			1.81	30.21	17.39	111.0	190	41.4	12.8	459	2.44	25.5	0.9	8.0	4.2	22.0	0.62	1.91	0.29	35	0.23	0.117
1299856	Soil			1.51	23.39	10.89	77.8	251	28.1	8.8	267	1.77	52.8	0.9	10.7	4.7	25.1	0.39	2.54	0.16	25	0.29	0.127
1299857	Soil			1.65	26.05	13.01	101.1	375	34.9	10.1	333	2.26	73.4	0.9	7.4	4.5	27.3	0.42	2.43	0.21	32	0.32	0.120
1299858	Soil			3.95	47.24	28.66	199.6	3387	74.6	14.7	581	4.51	738.9	1.1	59.4	2.2	32.3	1.03	21.01	0.46	48	0.58	0.121
1299859	Soil			2.34	21.56	16.63	97.1	177	50.6	9.3	290	2.72	135.6	0.5	9.7	2.2	13.1	0.39	7.97	0.29	33	0.18	0.048
1299860	Soil			1.14	28.01	12.57	74.1	322	407.1	27.4	520	2.97	683.9	0.7	117.8	5.4	37.2	0.37	37.72	0.21	35	0.46	0.081
1299861	Soil			0.17	2.10	1.51	8.9	364	21.2	2.3	61	0.41	38.9	<0.1	10.3	<0.1	7.2	0.09	2.30	0.02	6	0.07	0.012
1299862	Soil			0.69	78.98	14.68	108.2	2129	2018	116.4	2004	9.32	6342	0.5	2266	0.9	55.0	0.51	212.0	0.08	41	0.69	0.070
1299863	Soil			1.10	35.83	66.53	99.7	840	2926	140.9	1626	7.23	2607	0.7	412.3	1.5	155.2	0.79	220.7	0.21	29	0.99	0.074
1299864	Soil			1.23	25.98	28.76	75.2	769	2836	153.5	2394	7.43	2838	0.5	497.6	1.3	51.9	0.61	209.1	0.18	33	0.37	0.067
1299865	Soil			1.31	24.87	33.86	83.2	750	1308	70.3	1010	5.09	1094	0.7	241.7	3.5	27.5	0.41	60.92	0.28	34	0.30	0.043
1299866	Soil			1.38	99.78	9.20	74.9	1010	499.3	61.4	1060	5.44	2184	0.3	677.0	1.4	72.6	0.18	53.59	0.06	33	2.07	0.090
1299867	Soil			0.40	57.91	10.45	64.9	496	165.3	27.2	522	3.42	497.7	0.2	32.4	1.0	14.9	0.25	29.38	0.06	33	0.30	0.051
1299868	Soil			0.29	29.15	4.41	43.4	269	98.3	14.2	543	1.85	479.0	0.3	27.2	0.2	33.3	0.47	14.39	0.05	24	0.65	0.040
1299869	Soil			0.57	39.15	11.89	51.4	389	144.7	18.4	536	2.63	593.8	0.6	37.2	0.8	52.8	0.60	15.31	0.16	35	1.07	0.086
1299870	Soil			1.15	20.12	19.55	96.7	148	41.9	9.7	259	2.78	176.5	0.8	15.9	2.0	13.7	0.56	3.29	0.30	25	0.20	0.072
1299871	Soil			0.13	2.66	1.03	5.2	28	16.6	0.8	12	0.19	15.5	<0.1	16.6	<0.1	46.7	0.10	0.71	0.11	3	0.34	0.019
1299872	Soil			0.87	98.77	985.4	118.0	12856	489.6	31.2	571	3.10	1330	0.9	249.6	1.0	74.9	4.21	273.0	2.26	15	1.30	0.077
1299873	Soil			0.77	18.71	14.03	58.9	366	692.7	54.8	896	3.35	630.4	0.6	29.8	0.9	61.9	0.56	58.33	0.19	21	0.67	0.090
1299874	Soil			0.04	2.22	0.85	4.2	22	7.6	0.7	12	0.16	5.7	<0.1	3.3	<0.1	8.8	0.01	0.77	<0.02	4	0.07	0.004
1299875	Soil			1.02	88.84	30.50	366.8	1520	930.4	50.3	600	4.78	1950	0.6	413.3	1.4	39.2	1.68	96.36	0.17	32	0.69	0.065
1299876	Soil			0.15	4.84	3.01	12.1	237	14.1	2.4	115	0.33	60.2	0.2	9.9	<0.1	22.2	0.13	1.84	0.04	6	0.28	0.053
1299877	Soil			0.73	38.84	6.61	39.5	946	64.0	5.9	359	1.47	128.5	8.7	14.6	1.0	79.5	0.91	107.8	0.15	18	1.17	0.197



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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	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	
1299848	Soil	7.0	435.3	3.31	87.6	0.015	9	0.76	0.006	0.04	0.3	3.1	0.05	0.03	13	0.1	<0.02	1.9	0.42	<0.1	0.02
1299849	Soil	6.6	465.9	4.17	113.0	0.013	18	0.69	0.007	0.03	0.3	3.4	0.04	0.05	26	0.2	<0.02	1.8	1.00	<0.1	<0.02
1299850	Soil	6.7	604.8	5.23	248.4	0.009	37	0.68	0.005	0.03	0.4	4.8	0.05	0.07	42	0.4	0.02	1.7	5.24	<0.1	0.03
1299851	Soil	21.1	42.2	0.45	291.1	0.006	1	0.83	0.002	0.05	0.3	3.6	0.09	<0.02	103	0.6	0.03	2.4	0.97	<0.1	0.02
1299852	Soil	4.0	14.6	0.14	137.3	0.002	<1	0.49	0.014	0.03	<0.1	0.3	0.07	0.03	68	0.3	<0.02	1.4	1.24	<0.1	<0.02
1299853	Soil	11.7	48.4	0.52	366.9	0.006	2	1.12	0.004	0.04	0.2	2.1	0.09	0.14	149	1.2	<0.02	3.0	5.92	<0.1	0.08
1299854	Soil	12.3	34.0	0.41	157.5	0.006	<1	0.93	0.002	0.04	0.3	1.1	0.08	<0.02	23	0.3	<0.02	3.6	1.04	<0.1	<0.02
1299855	Soil	17.7	32.2	0.50	232.8	0.008	<1	1.03	0.002	0.04	0.2	2.0	0.09	<0.02	64	0.3	0.03	2.8	0.63	<0.1	<0.02
1299856	Soil	17.2	20.2	0.38	267.1	0.009	<1	0.68	0.002	0.03	0.2	1.7	0.05	<0.02	79	0.2	0.02	1.9	0.34	<0.1	0.03
1299857	Soil	18.2	28.1	0.51	271.7	0.008	<1	0.95	0.003	0.04	0.2	2.0	0.08	<0.02	75	0.4	0.04	2.8	0.50	<0.1	0.02
1299858	Soil	12.0	45.8	0.42	606.1	0.003	<1	1.10	0.003	0.08	0.4	3.0	0.15	0.03	150	0.8	0.07	3.8	1.05	<0.1	0.04
1299859	Soil	12.1	29.5	0.47	273.0	0.005	<1	0.94	0.002	0.04	0.2	1.5	0.09	<0.02	22	0.4	0.06	3.2	0.69	<0.1	<0.02
1299860	Soil	14.6	85.6	1.87	176.9	0.039	1	0.90	0.010	0.07	0.6	3.7	0.11	<0.02	59	0.2	0.04	2.7	1.07	<0.1	0.05
1299861	Soil	0.9	8.1	0.11	34.9	0.007	<1	0.11	0.022	0.01	<0.1	0.3	<0.02	<0.02	21	0.1	<0.02	0.5	0.19	<0.1	<0.02
1299862	Soil	6.2	262.4	2.10	251.3	0.002	4	0.58	0.006	0.05	2.1	18.4	0.82	0.06	194	0.4	<0.02	1.2	4.56	<0.1	0.05
1299863	Soil	7.4	372.3	2.55	179.4	0.007	2	0.84	0.008	0.03	1.3	6.5	0.36	0.06	105	0.4	0.03	2.3	0.81	<0.1	0.05
1299864	Soil	6.8	359.2	5.87	293.2	0.005	3	0.79	0.003	0.03	1.8	6.7	0.64	0.05	209	0.4	0.05	2.3	0.64	<0.1	0.02
1299865	Soil	13.2	216.3	1.83	166.1	0.006	1	1.04	0.003	0.05	0.9	5.2	0.28	0.02	79	0.2	0.02	2.9	0.85	<0.1	0.06
1299866	Soil	12.9	81.4	1.10	554.6	<0.001	6	0.67	0.003	0.07	2.0	16.3	0.33	0.05	281	0.4	0.03	1.4	6.72	<0.1	<0.02
1299867	Soil	8.2	59.7	0.31	188.1	0.001	5	0.75	0.007	0.06	0.9	6.9	0.18	<0.02	61	0.1	<0.02	1.8	5.12	<0.1	<0.02
1299868	Soil	4.1	56.7	0.55	150.1	0.004	2	0.57	0.020	0.04	0.5	3.6	0.10	0.05	74	0.2	<0.02	1.3	7.57	<0.1	0.03
1299869	Soil	5.4	118.1	0.73	198.8	0.003	2	0.85	0.005	0.06	0.4	4.0	0.10	0.07	61	0.3	0.03	2.8	4.74	<0.1	0.04
1299870	Soil	13.1	34.3	0.34	105.8	0.009	<1	0.81	0.003	0.06	0.3	1.5	0.08	<0.02	17	0.3	0.04	2.5	1.14	<0.1	<0.02
1299871	Soil	0.7	2.5	0.12	25.6	0.007	1	0.13	0.021	0.03	<0.1	0.2	<0.02	0.05	30	0.1	<0.02	0.6	0.17	<0.1	<0.02
1299872	Soil	5.4	54.1	0.38	342.2	0.002	3	0.57	0.009	0.06	0.4	4.3	0.11	0.06	146	0.5	0.06	1.2	2.30	<0.1	0.06
1299873	Soil	7.3	114.2	0.97	252.6	0.008	2	1.00	0.012	0.07	1.6	2.6	0.11	0.07	89	0.3	<0.02	2.3	1.72	<0.1	0.05
1299874	Soil	<0.5	1.6	0.03	11.7	0.007	<1	0.10	0.022	0.03	<0.1	0.1	<0.02	<0.02	7	0.1	<0.02	0.4	0.10	<0.1	<0.02
1299875	Soil	7.3	189.0	1.10	208.9	0.004	3	0.84	0.007	0.06	1.5	7.7	0.13	0.05	167	0.5	0.06	2.0	1.67	<0.1	0.05
1299876	Soil	2.0	4.6	0.11	64.4	0.010	<1	0.37	0.025	0.01	<0.1	0.2	0.04	0.05	20	0.2	<0.02	1.3	0.35	<0.1	0.03
1299877	Soil	13.3	24.9	0.57	676.3	0.008	<1	1.14	0.010	0.02	0.1	1.1	0.06	0.20	130	2.6	0.03	2.3	0.51	<0.1	0.10

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.



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Project: Rivier  
 Report Date: November 24, 2011

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299848	Soil	0.40	4.6	0.5	<0.05	0.9	2.80	12.9	<0.02	<1	0.1	7.8	<10	<2
1299849	Soil	0.36	4.4	0.4	<0.05	0.8	3.61	11.9	<0.02	<1	0.2	8.1	<10	<2
1299850	Soil	0.33	4.5	1.1	<0.05	1.0	4.98	13.2	<0.02	<1	0.5	17.6	<10	5
1299851	Soil	0.22	4.8	0.4	<0.05	1.2	9.22	41.4	0.02	<1	0.5	13.5	<10	<2
1299852	Soil	0.06	4.2	0.3	<0.05	0.1	2.11	7.6	<0.02	<1	0.2	3.7	<10	<2
1299853	Soil	0.45	8.7	0.5	<0.05	2.2	11.09	18.6	0.03	<1	0.7	10.3	<10	<2
1299854	Soil	0.63	9.8	0.6	<0.05	0.2	3.02	22.9	<0.02	<1	0.2	13.0	<10	<2
1299855	Soil	0.29	5.2	0.4	<0.05	1.0	7.20	35.4	<0.02	1	0.5	20.4	<10	<2
1299856	Soil	0.21	2.8	0.3	<0.05	1.8	8.84	32.8	<0.02	<1	0.4	13.6	<10	<2
1299857	Soil	0.25	4.2	0.4	<0.05	0.9	8.22	35.2	0.02	<1	0.3	18.5	<10	<2
1299858	Soil	0.42	7.7	0.7	<0.05	1.3	7.97	22.8	0.04	<1	0.7	12.4	<10	<2
1299859	Soil	0.36	7.0	1.8	<0.05	0.7	3.17	23.9	0.03	<1	0.3	17.1	<10	<2
1299860	Soil	0.57	6.9	1.7	<0.05	3.0	8.60	27.6	<0.02	<1	0.4	11.7	<10	<2
1299861	Soil	0.07	1.0	0.1	<0.05	0.1	0.31	1.7	<0.02	<1	<0.1	0.7	<10	<2
1299862	Soil	0.16	8.4	1.9	<0.05	1.6	11.91	12.2	0.07	2	0.9	4.9	<10	3
1299863	Soil	0.36	4.9	2.5	<0.05	1.8	5.33	14.7	0.04	1	0.8	10.4	<10	5
1299864	Soil	0.24	4.2	4.1	<0.05	0.8	3.91	15.2	0.04	1	0.7	11.4	<10	6
1299865	Soil	0.38	5.7	1.0	<0.05	1.6	6.15	27.8	0.03	<1	0.7	16.3	<10	3
1299866	Soil	0.08	9.7	2.2	<0.05	0.6	16.04	23.0	0.05	<1	0.7	5.9	12	<2
1299867	Soil	0.22	11.9	1.1	<0.05	0.3	4.36	16.3	0.02	<1	0.7	6.2	<10	<2
1299868	Soil	0.26	12.2	0.6	<0.05	0.9	3.75	8.3	<0.02	<1	0.2	5.0	<10	<2
1299869	Soil	0.37	19.5	0.9	<0.05	1.2	3.68	10.1	<0.02	<1	0.3	10.0	<10	<2
1299870	Soil	0.39	8.9	1.0	<0.05	0.4	4.99	25.4	0.02	2	0.3	13.8	<10	<2
1299871	Soil	0.13	0.9	0.3	<0.05	0.6	0.24	1.2	<0.02	<1	<0.1	0.2	<10	<2
1299872	Soil	0.28	7.6	1.1	<0.05	2.5	6.31	10.1	0.05	<1	0.5	4.8	<10	<2
1299873	Soil	0.57	10.9	1.2	<0.05	1.9	3.68	15.2	<0.02	<1	0.5	8.2	<10	2
1299874	Soil	0.06	0.8	<0.1	<0.05	0.1	0.10	0.5	<0.02	1	<0.1	0.1	<10	<2
1299875	Soil	0.37	4.9	1.6	<0.05	2.0	7.06	13.2	0.04	<1	0.6	11.6	<10	<2
1299876	Soil	0.26	1.3	0.2	<0.05	1.4	0.74	4.1	<0.02	<1	<0.1	1.2	<10	<2
1299877	Soil	0.70	4.0	0.4	<0.05	3.4	11.59	22.2	<0.02	2	0.7	6.3	<10	<2



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Project: Rivier  
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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				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
1299878	Soil			0.20	2.18	1.77	13.1	582	6.7	0.9	42	0.29	9.9	0.2	6.0	<0.1	7.1	0.14	0.55	0.11	8	0.07	0.016
1299879	Soil			1.83	24.60	13.43	122.4	372	34.1	10.0	393	2.41	30.0	0.7	7.3	3.1	29.3	0.58	2.27	0.24	40	0.46	0.108
1299880	Soil			1.48	30.39	8.71	44.7	972	35.9	7.1	569	1.65	72.7	3.8	21.1	0.7	82.6	0.72	4.18	0.22	23	1.49	0.152
1299881	Soil			1.58	27.49	13.88	99.3	344	50.7	9.7	372	2.56	52.1	1.2	29.9	4.7	29.1	0.51	2.89	0.22	38	0.36	0.125
1299882	Soil			1.11	8.13	9.68	44.0	91	19.5	3.2	118	1.27	39.0	0.4	4.4	0.8	9.6	0.18	1.76	0.24	34	0.14	0.033
1299883	Soil			1.60	22.08	10.58	111.7	180	41.5	12.9	590	2.59	23.0	1.0	6.1	1.8	18.6	0.43	1.33	0.26	49	0.26	0.132
1299884	Soil			0.91	29.00	10.06	42.9	1175	39.6	6.0	255	1.65	110.5	2.4	20.6	0.6	62.1	0.34	2.90	0.18	18	1.25	0.156
1299885	Soil			2.29	22.77	17.58	94.9	300	48.0	12.0	495	3.61	214.5	0.7	9.9	2.5	12.8	0.36	5.98	0.29	43	0.20	0.074
1299886	Soil			1.76	61.69	19.81	86.0	739	51.6	12.9	459	3.17	104.4	2.7	16.5	2.1	30.2	0.62	2.75	0.32	36	0.41	0.121
1299887	Soil			1.58	48.12	16.92	105.1	597	70.6	18.8	766	4.44	269.4	0.9	28.0	4.0	12.4	0.34	4.16	0.31	27	0.17	0.093
1299888	Soil			1.01	21.16	10.85	57.8	421	34.8	10.1	402	2.71	106.1	0.7	15.1	0.7	9.5	0.22	1.21	0.25	26	0.13	0.095
1299889	Soil			1.16	23.26	13.11	70.7	373	437.3	30.6	639	3.38	140.4	0.9	15.0	3.4	17.4	0.51	4.00	0.18	29	0.33	0.093
1299890	Soil			1.20	16.37	14.19	73.1	217	190.5	18.9	480	2.95	147.6	0.7	8.7	2.4	16.0	0.57	9.55	0.21	36	0.18	0.041
1299891	Soil			1.44	28.64	28.65	136.2	397	3143	397.1	4692	5.94	1561	0.9	37.6	0.9	81.6	2.30	213.2	0.20	27	0.59	0.160
1299892	Soil			3.19	19.32	11.67	121.5	124	64.9	10.2	373	2.83	129.2	0.6	3.9	0.4	9.4	1.06	4.16	0.26	40	0.11	0.078
1299893	Soil			3.47	25.79	13.99	123.7	182	59.9	10.7	357	2.61	45.8	0.9	5.9	3.6	22.2	0.50	3.06	0.24	41	0.25	0.106
1299894	Soil			6.85	43.37	15.48	114.7	171	123.4	13.8	422	3.14	114.0	1.3	13.5	5.3	16.0	0.50	6.89	0.26	44	0.18	0.079
1299895	Soil			7.10	69.19	15.53	133.8	253	114.7	14.3	546	3.44	95.6	1.4	11.5	7.1	14.4	0.73	4.98	0.30	42	0.17	0.064
1299896	Soil			2.69	35.98	12.31	94.3	157	104.4	14.6	369	3.01	68.8	0.9	10.1	4.6	12.6	0.52	2.80	0.24	43	0.16	0.064
1299897	Soil			2.17	25.15	31.98	111.2	272	152.6	17.5	549	3.81	201.1	0.9	10.2	3.2	11.7	0.56	7.17	0.28	40	0.18	0.077
1299898	Soil			1.09	29.58	7.80	73.1	625	400.8	14.2	748	1.51	97.3	0.6	19.8	0.7	55.2	1.56	6.91	0.15	19	1.32	0.162
1299899	Soil			2.22	34.98	25.31	95.5	954	335.0	24.8	709	3.89	1254	1.6	122.4	11.7	38.4	0.60	44.30	0.26	19	0.38	0.081
1299900	Soil			2.05	36.54	26.60	114.4	982	239.9	22.9	926	4.41	483.6	1.1	34.8	4.5	29.0	0.70	21.26	0.29	40	0.32	0.099
1299901	Soil			2.33	35.87	23.26	126.1	502	52.5	13.4	452	3.42	150.2	1.0	12.9	4.0	27.3	0.48	5.10	0.22	45	0.39	0.116
1299902	Soil			2.94	46.82	19.70	168.8	524	50.8	11.4	472	2.96	24.5	1.0	4.9	6.0	37.6	1.41	2.51	0.24	50	0.43	0.142
1299903	Soil			1.74	21.21	29.55	121.9	1235	37.5	7.4	272	2.59	265.3	0.9	20.9	2.0	31.5	0.69	9.34	0.23	30	0.44	0.085
1299904	Soil			1.16	13.74	19.40	69.1	1458	23.2	5.1	202	1.97	255.5	1.9	15.9	1.0	28.2	0.40	4.78	0.17	23	0.49	0.101
1299905	Soil			1.93	21.06	40.03	127.0	1277	34.3	8.1	271	2.63	225.5	0.8	26.7	2.9	20.9	0.52	7.12	0.21	31	0.34	0.057
1299906	Soil			0.09	3.50	1.16	5.1	60	1.6	0.9	24	0.32	2.7	0.2	0.6	<0.1	12.8	0.20	0.17	<0.02	10	0.13	0.016
1299907	Soil			1.51	27.66	22.44	101.4	787	54.9	11.5	398	2.87	244.7	0.9	20.3	5.5	25.3	0.47	6.50	0.22	35	0.33	0.090

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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	0.02	
1299878	Soil	0.9	4.5	0.05	74.7	0.006	1	0.19	0.028	0.02	<0.1	0.3	0.05	<0.02	41	<0.1	<0.02	1.1	0.52	<0.1	<0.02
1299879	Soil	16.1	29.7	0.51	391.7	0.010	2	1.09	0.004	0.07	0.2	2.1	0.11	<0.02	64	0.3	0.03	3.3	0.89	<0.1	0.03
1299880	Soil	8.0	20.3	0.34	732.5	0.006	3	0.88	0.017	0.04	0.1	1.3	0.11	0.16	182	1.9	0.05	2.3	0.84	<0.1	0.07
1299881	Soil	21.1	42.7	0.63	419.4	0.016	2	1.17	0.004	0.06	0.2	3.0	0.10	<0.02	98	0.5	0.04	3.4	1.06	<0.1	0.05
1299882	Soil	17.3	18.5	0.24	281.2	0.010	1	0.79	0.002	0.04	0.4	0.8	0.13	<0.02	18	0.1	0.03	4.5	1.21	<0.1	<0.02
1299883	Soil	17.2	66.2	0.77	286.3	0.021	2	1.37	0.002	0.06	0.2	2.2	0.10	<0.02	52	0.3	0.02	4.6	1.51	<0.1	<0.02
1299884	Soil	10.7	35.3	0.38	378.6	0.008	3	0.79	0.021	0.04	0.3	1.5	0.08	0.12	150	1.5	0.03	1.9	6.62	<0.1	0.03
1299885	Soil	17.9	53.0	0.36	163.8	0.005	<1	0.94	0.002	0.07	0.7	1.9	0.12	<0.02	47	0.4	0.02	3.8	2.55	<0.1	<0.02
1299886	Soil	18.1	41.2	0.44	550.6	0.005	1	1.32	0.003	0.06	0.5	3.5	0.14	0.05	97	0.9	0.03	3.4	2.40	<0.1	0.04
1299887	Soil	22.4	51.9	0.43	106.4	0.009	1	1.05	0.003	0.06	0.6	2.7	0.07	<0.02	19	0.3	0.05	3.3	2.24	<0.1	<0.02
1299888	Soil	16.3	39.3	0.32	128.0	0.005	<1	1.09	0.006	0.04	0.4	1.3	0.10	<0.02	22	0.2	0.03	3.7	2.06	<0.1	<0.02
1299889	Soil	15.1	314.4	2.89	144.4	0.011	5	0.90	0.004	0.08	0.8	3.5	0.07	0.03	49	0.3	0.03	2.5	2.01	<0.1	<0.02
1299890	Soil	13.6	88.7	0.76	162.1	0.020	1	1.08	0.004	0.07	0.5	2.3	0.10	<0.02	40	0.2	0.02	3.3	1.10	<0.1	<0.02
1299891	Soil	24.2	322.3	2.32	270.8	0.007	4	0.90	0.010	0.06	0.8	4.3	1.74	0.08	93	0.3	0.04	2.1	2.24	<0.1	0.06
1299892	Soil	13.4	58.9	0.38	162.0	0.010	1	0.82	0.002	0.09	0.2	0.9	0.08	0.02	21	0.7	0.04	3.5	1.16	<0.1	<0.02
1299893	Soil	16.9	40.4	0.58	261.3	0.013	2	1.17	0.003	0.06	0.2	2.1	0.10	<0.02	38	0.8	0.03	3.4	0.86	<0.1	<0.02
1299894	Soil	21.1	73.4	0.75	261.5	0.026	1	1.25	0.003	0.05	0.3	3.6	0.08	<0.02	82	2.3	0.07	3.7	0.97	<0.1	<0.02
1299895	Soil	25.5	69.6	0.98	249.8	0.021	<1	1.49	0.002	0.04	0.3	4.8	0.07	<0.02	78	3.1	0.11	4.2	1.21	<0.1	<0.02
1299896	Soil	19.3	71.0	0.69	278.0	0.016	1	1.49	0.002	0.05	0.2	2.5	0.10	<0.02	55	1.1	0.05	3.9	1.74	<0.1	<0.02
1299897	Soil	14.3	118.9	0.89	342.6	0.004	1	1.22	0.001	0.05	0.6	2.6	0.15	<0.02	51	0.6	0.05	3.4	2.24	<0.1	0.02
1299898	Soil	6.4	70.2	1.06	541.4	0.009	6	0.58	0.011	0.04	0.2	2.6	0.08	0.20	107	0.7	<0.02	1.5	1.41	<0.1	0.04
1299899	Soil	19.9	71.6	0.86	185.7	0.004	3	0.72	0.003	0.09	0.7	3.7	0.15	<0.02	120	0.5	0.04	2.0	3.04	<0.1	0.05
1299900	Soil	19.2	95.7	0.80	413.5	0.010	2	1.20	0.004	0.07	0.5	5.0	0.16	<0.02	96	0.6	0.03	3.2	1.96	<0.1	0.02
1299901	Soil	23.3	43.4	0.54	383.6	0.005	1	1.20	0.001	0.07	0.3	2.8	0.13	<0.02	71	0.7	0.03	3.6	1.51	<0.1	<0.02
1299902	Soil	19.2	35.6	0.58	556.6	0.014	3	1.19	0.006	0.12	0.1	3.7	0.18	<0.02	180	0.5	0.05	3.5	1.36	<0.1	0.11
1299903	Soil	14.1	29.6	0.42	302.2	0.006	2	0.92	0.003	0.05	0.4	2.0	0.11	0.05	69	0.9	0.03	2.7	1.09	<0.1	0.03
1299904	Soil	8.2	23.6	0.39	300.7	0.005	1	0.92	0.009	0.04	0.3	1.4	0.10	0.07	68	0.7	<0.02	2.6	1.36	<0.1	0.05
1299905	Soil	15.1	26.7	0.49	171.0	0.009	1	0.94	0.004	0.06	0.2	2.0	0.09	0.03	51	0.8	0.03	2.6	0.71	<0.1	0.05
1299906	Soil	<0.5	1.8	0.04	20.4	0.014	<1	0.11	0.039	0.02	<0.1	0.1	<0.02	0.02	10	0.2	<0.02	0.7	0.06	<0.1	<0.02
1299907	Soil	18.6	36.5	0.56	256.7	0.021	2	1.01	0.004	0.06	0.4	3.0	0.10	<0.02	73	0.5	0.03	3.0	0.98	<0.1	<0.02

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Project: Rivier  
 Report Date: November 24, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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	
1299878	Soil	0.10	3.4	0.2	<0.05	<0.1	0.48	1.6	0.03	<1	<0.1	0.9	<10	<2
1299879	Soil	0.43	6.8	0.9	<0.05	0.8	6.95	32.6	0.03	<1	0.4	15.8	<10	<2
1299880	Soil	0.51	5.8	0.5	<0.05	2.4	7.24	15.0	<0.02	2	0.6	5.9	<10	<2
1299881	Soil	0.57	6.5	1.1	<0.05	2.0	10.90	43.6	0.02	<1	0.5	17.3	<10	<2
1299882	Soil	0.29	7.7	0.8	<0.05	<0.1	2.61	35.5	<0.02	<1	0.2	7.2	<10	<2
1299883	Soil	0.55	12.0	1.6	<0.05	0.2	6.18	36.3	0.02	<1	0.5	19.6	<10	<2
1299884	Soil	0.45	5.1	0.8	<0.05	1.3	11.22	19.7	0.02	3	0.4	6.2	<10	<2
1299885	Soil	0.45	10.5	1.4	<0.05	0.2	3.70	37.8	0.03	1	0.3	12.2	<10	<2
1299886	Soil	0.73	8.8	1.0	<0.05	1.4	13.96	35.8	0.02	<1	0.7	14.2	<10	<2
1299887	Soil	0.20	7.8	0.7	<0.05	0.4	6.79	47.2	0.03	<1	0.5	14.7	<10	<2
1299888	Soil	0.15	8.7	0.8	<0.05	0.3	5.22	33.9	0.02	<1	0.3	13.5	<10	<2
1299889	Soil	0.32	7.6	1.0	<0.05	1.2	7.98	32.2	<0.02	<1	0.4	13.9	<10	<2
1299890	Soil	0.62	7.8	1.0	<0.05	0.4	4.52	32.6	<0.02	<1	0.6	15.9	<10	<2
1299891	Soil	0.24	8.3	1.6	<0.05	1.8	11.40	58.5	0.03	<1	0.6	8.1	<10	8
1299892	Soil	0.23	17.3	1.1	<0.05	<0.1	3.19	28.0	0.02	<1	0.3	8.9	<10	<2
1299893	Soil	0.46	7.4	1.3	<0.05	0.5	6.90	37.0	0.02	<1	0.5	18.6	<10	<2
1299894	Soil	0.39	4.9	0.8	<0.05	0.8	10.81	46.0	0.03	<1	0.5	15.5	<10	<2
1299895	Soil	0.30	5.0	1.4	<0.05	1.4	13.52	54.1	0.03	<1	0.5	17.1	<10	<2
1299896	Soil	0.46	7.5	0.7	<0.05	0.6	7.16	42.8	0.03	<1	0.6	18.0	<10	<2
1299897	Soil	0.31	9.9	0.9	<0.05	0.6	5.95	32.8	0.03	<1	0.8	23.3	<10	<2
1299898	Soil	0.34	7.1	1.0	<0.05	2.0	7.76	10.5	<0.02	<1	0.3	4.1	<10	<2
1299899	Soil	0.21	6.9	1.7	<0.05	2.9	10.57	43.1	0.02	<1	0.6	8.3	<10	<2
1299900	Soil	0.34	10.0	1.4	<0.05	1.0	13.30	41.8	0.03	<1	0.6	15.3	<10	2
1299901	Soil	0.26	8.4	2.0	<0.05	0.5	7.33	49.6	0.03	<1	0.6	20.4	<10	<2
1299902	Soil	0.25	8.9	3.3	<0.05	6.3	12.17	40.9	<0.02	2	0.6	18.0	<10	<2
1299903	Soil	0.34	9.3	0.7	<0.05	1.4	4.94	30.9	0.03	1	0.3	10.6	<10	<2
1299904	Soil	0.39	7.9	1.7	<0.05	1.6	3.89	17.4	0.02	<1	0.3	8.4	<10	<2
1299905	Soil	0.34	7.5	1.5	<0.05	1.6	5.77	32.6	<0.02	<1	0.5	12.8	<10	<2
1299906	Soil	0.11	0.7	0.2	<0.05	0.5	0.29	1.0	<0.02	<1	<0.1	0.2	<10	<2
1299907	Soil	0.52	6.5	2.2	<0.05	1.5	9.29	38.6	0.03	<1	0.4	14.5	<10	<2



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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1299908	Soil	2.15	33.23	20.10	112.1	1521	58.4	12.6	429	3.52	642.7	0.8	59.1	4.1	15.3	0.68	10.98	0.27	35	0.20	0.074
1299909	Soil	2.50	24.54	25.68	80.3	324	40.8	9.6	393	4.24	1137	0.7	22.4	0.4	7.4	0.41	16.89	0.53	35	0.05	0.091
1299910	Soil	1.73	12.79	14.19	72.1	128	91.9	13.1	390	2.89	197.4	0.5	7.6	2.9	19.1	0.34	8.97	0.20	43	0.25	0.053
1299911	Soil	1.45	7.33	3.78	15.7	134	15.5	8.8	1275	0.55	14.1	0.4	2.1	<0.1	11.2	1.09	0.94	0.06	11	0.18	0.040
1299912	Soil	1.60	24.43	22.33	107.7	628	966.7	43.2	524	4.54	1122	0.7	759.8	2.5	37.1	0.44	81.84	0.24	33	0.24	0.078
1299913	Soil	1.51	19.57	14.61	81.5	276	1595	50.3	754	5.77	750.1	0.7	20.2	2.5	12.2	0.56	240.4	0.23	48	0.21	0.066
1299914	Soil	1.43	9.50	15.76	45.3	56	199.8	12.1	186	2.48	164.4	0.4	7.2	3.1	7.3	0.24	41.03	0.19	36	0.07	0.019
1299915	Soil	1.31	11.70	19.87	64.5	135	935.8	57.6	670	4.18	440.2	0.5	30.9	2.3	12.6	0.47	122.6	0.18	41	0.15	0.048
1299916	Soil	1.53	36.01	26.64	98.1	576	466.9	35.2	765	3.25	279.2	0.8	63.6	3.2	28.4	0.86	31.81	0.21	41	0.32	0.063
1299917 (1299919)	Soil	1.41	25.70	21.94	73.7	591	783.5	50.3	670	3.82	675.3	0.7	121.3	3.2	19.8	0.46	54.57	0.21	35	0.16	0.043
1299918 (No Tag)	Soil	1.42	26.03	22.26	93.7	425	1524	93.0	1148	4.14	965.9	0.6	121.8	2.6	51.8	0.54	98.35	0.20	39	0.57	0.052
1299919 (No Tag)	Soil	1.32	17.57	16.30	73.7	127	437.2	44.4	540	3.47	479.3	0.6	12.0	3.3	16.2	0.62	47.79	0.20	38	0.09	0.027
1299920	Soil	1.41	19.81	18.19	79.3	349	677.0	53.7	1131	3.99	528.6	0.6	24.8	2.0	35.5	0.97	62.59	0.21	39	0.29	0.066
1299921	Soil	1.57	17.74	23.38	80.4	253	129.2	14.2	429	2.64	164.8	0.6	13.5	2.2	14.2	0.48	29.61	0.26	36	0.15	0.057
1299922	Soil	3.08	18.09	19.26	54.2	196	35.9	9.7	264	3.76	295.6	0.6	5.4	4.3	6.2	0.44	2.84	0.30	38	0.04	0.052
1299923	Soil	4.36	15.60	18.55	56.5	297	39.3	7.3	290	2.58	85.4	0.6	2.4	4.3	6.6	0.28	5.94	0.31	44	0.05	0.041
1299924	Soil	2.83	40.65	20.36	117.6	289	93.0	19.9	473	3.59	97.2	0.8	10.8	6.8	10.6	0.57	10.94	0.30	38	0.09	0.055
1299925	Soil	2.52	13.54	14.89	41.1	162	30.8	5.8	201	2.18	53.0	0.7	4.2	1.9	7.1	0.13	2.16	0.24	36	0.06	0.049
1299926	Soil	1.06	7.00	2.12	16.8	186	8.5	1.8	103	0.55	7.7	0.4	1.4	<0.1	9.8	0.02	0.57	0.05	12	0.11	0.064
1299927	Soil	3.66	20.30	16.68	60.8	260	42.1	6.2	205	2.18	55.1	1.2	3.6	2.1	12.3	0.17	1.91	0.23	41	0.17	0.056
1299928	Soil	1.66	18.47	15.04	86.2	154	39.1	11.4	463	2.46	126.1	0.8	7.7	4.4	25.3	0.40	4.21	0.16	32	0.29	0.106
1299929	Soil	1.72	25.31	18.74	67.3	706	46.0	8.6	295	2.28	192.9	0.9	18.6	1.4	16.9	0.22	4.76	0.20	36	0.23	0.053
1299930	Soil	1.60	22.42	13.23	67.1	642	47.8	7.7	265	2.12	252.2	1.0	17.2	1.6	38.7	0.33	4.50	0.18	26	0.62	0.106
1299931	Soil	0.78	15.15	15.18	42.6	605	36.9	7.1	199	2.01	242.3	1.3	17.7	1.0	31.7	0.21	4.23	0.16	20	0.56	0.085
1299932	Soil	2.48	30.08	24.90	105.7	1440	58.7	14.2	533	3.22	313.8	7.6	43.6	1.3	51.5	0.50	6.63	0.23	28	0.92	0.154
1299933	Soil	1.68	17.52	23.40	88.8	1665	41.4	14.0	500	2.49	149.1	2.3	24.1	3.3	29.3	1.19	4.51	0.17	30	0.40	0.120
1299934	Soil	2.86	34.28	34.00	105.9	1461	54.5	15.6	576	3.47	324.4	2.0	29.5	3.0	31.6	0.67	9.31	0.27	34	0.44	0.112
1299935	Soil	3.18	73.98	33.72	223.3	2645	176.6	25.1	1921	4.89	501.0	2.0	70.5	3.4	33.4	1.56	9.11	0.30	40	0.48	0.146
1299936	Soil	2.28	28.83	26.66	102.6	777	55.8	14.2	570	3.78	254.3	1.0	10.6	1.0	24.4	0.36	6.85	0.31	34	0.41	0.096
1299937	Soil	1.79	38.39	19.43	67.1	559	64.0	16.0	392	2.89	82.7	1.4	12.9	8.5	23.8	0.11	5.28	0.28	22	0.26	0.075

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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

WHI11001713.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		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	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1299908	Soil	16.3	38.0	0.44	237.3	0.006	<1	0.98	0.002	0.07	0.4	2.4	0.11	<0.02	63	0.7	0.05	3.0	1.07	<0.1	<0.02
1299909	Soil	14.8	38.5	0.18	120.8	0.005	<1	0.80	0.002	0.04	0.4	0.6	0.15	0.04	15	0.7	0.06	3.7	2.56	<0.1	<0.02
1299910	Soil	13.2	43.6	0.40	282.5	0.003	<1	0.99	0.004	0.06	0.6	1.6	0.11	0.02	24	0.2	0.05	3.6	1.44	<0.1	0.02
1299911	Soil	4.4	7.4	0.10	156.4	0.010	<1	0.41	0.031	0.03	<0.1	0.3	0.05	0.03	16	0.6	<0.02	1.7	0.65	<0.1	<0.02
1299912	Soil	14.8	251.1	1.79	156.0	0.007	2	1.09	0.010	0.05	0.7	4.5	0.27	0.03	69	0.6	0.04	3.0	1.89	<0.1	<0.02
1299913	Soil	9.9	627.8	2.25	241.3	0.005	2	1.14	<0.001	0.04	1.6	6.6	1.09	0.03	1166	0.3	0.04	3.5	3.59	<0.1	0.04
1299914	Soil	12.7	100.5	0.46	239.1	0.004	<1	0.98	0.002	0.03	0.5	1.2	0.20	<0.02	24	0.5	<0.02	3.8	1.93	<0.1	0.02
1299915	Soil	9.0	280.8	2.06	231.7	0.003	4	1.31	0.002	0.04	0.9	4.1	0.30	0.04	125	0.2	0.05	3.3	1.62	<0.1	0.03
1299916	Soil	13.0	223.4	1.41	481.8	0.007	3	1.24	0.004	0.07	2.5	4.7	0.17	0.03	121	0.5	0.03	3.6	2.74	<0.1	0.08
1299917 (1299919)	Soil	14.3	176.2	1.10	175.4	0.014	1	1.12	0.006	0.08	0.6	3.9	0.16	0.02	83	0.8	0.07	3.2	0.86	<0.1	0.05
1299918 (No Tag)	Soil	15.7	191.8	1.85	206.0	0.013	2	1.22	0.007	0.07	0.8	4.0	0.15	0.02	52	<0.1	0.10	3.1	1.18	<0.1	0.07
1299919 (No Tag)	Soil	12.3	149.9	0.86	190.7	0.019	<1	1.09	0.009	0.08	0.5	2.7	0.09	<0.02	29	0.7	<0.02	3.7	0.87	<0.1	<0.02
1299920	Soil	11.2	134.8	1.40	259.8	0.015	2	1.25	0.007	0.14	0.6	3.5	0.12	0.05	62	0.2	0.03	3.3	0.97	<0.1	0.07
1299921	Soil	17.0	57.5	0.50	289.3	0.008	<1	1.04	0.004	0.08	0.4	1.5	0.11	<0.02	49	0.3	0.08	3.6	0.93	<0.1	<0.02
1299922	Soil	22.1	23.8	0.17	82.3	0.017	<1	0.85	0.002	0.05	0.3	1.3	0.10	<0.02	15	0.3	0.05	4.6	1.80	<0.1	<0.02
1299923	Soil	16.5	25.8	0.17	277.8	0.011	<1	0.86	0.001	0.04	0.3	1.3	0.15	<0.02	29	0.4	0.08	4.7	1.85	<0.1	0.03
1299924	Soil	17.7	46.1	0.61	175.9	0.006	2	1.53	0.002	0.06	0.3	2.9	0.13	<0.02	76	1.6	0.07	3.9	1.68	<0.1	0.04
1299925	Soil	15.0	27.1	0.27	151.4	0.006	<1	1.13	0.002	0.04	0.3	1.1	0.12	<0.02	35	0.4	<0.02	4.4	1.48	<0.1	<0.02
1299926	Soil	3.9	6.2	0.09	75.1	0.007	<1	0.41	0.029	0.03	<0.1	0.2	0.03	0.03	18	1.3	0.03	1.4	0.59	<0.1	<0.02
1299927	Soil	16.1	35.0	0.55	566.7	0.005	<1	1.26	0.002	0.06	0.3	1.7	0.14	<0.02	65	1.2	0.03	4.7	1.46	<0.1	<0.02
1299928	Soil	17.7	21.5	0.49	215.4	0.015	2	0.88	0.006	0.05	0.2	1.6	0.07	<0.02	23	0.2	<0.02	2.4	0.66	<0.1	0.02
1299929	Soil	17.3	33.5	0.38	675.7	0.007	<1	0.91	0.003	0.05	0.3	1.8	0.12	<0.02	80	0.3	<0.02	3.2	1.13	<0.1	<0.02
1299930	Soil	10.6	29.6	0.47	230.2	0.009	<1	0.99	0.010	0.04	0.3	1.6	0.10	0.07	38	0.4	<0.02	2.7	2.11	<0.1	0.09
1299931	Soil	7.6	22.4	0.31	203.9	0.008	<1	0.85	0.013	0.03	0.3	1.3	0.05	0.08	50	0.7	0.06	2.7	1.70	<0.1	0.04
1299932	Soil	10.8	42.4	0.53	340.3	0.007	1	1.01	0.004	0.04	0.4	2.3	0.09	0.10	126	1.9	0.04	2.7	1.43	<0.1	0.06
1299933	Soil	16.7	38.2	0.49	283.5	0.010	1	1.02	0.003	0.04	0.3	2.2	0.07	<0.02	119	0.7	<0.02	2.7	0.65	<0.1	0.06
1299934	Soil	16.7	36.9	0.48	258.5	0.012	1	0.95	0.004	0.06	0.4	2.9	0.12	0.03	68	1.4	0.09	2.5	3.84	<0.1	0.04
1299935	Soil	11.8	66.0	0.56	376.9	0.005	3	1.49	0.004	0.10	0.5	4.4	0.20	0.10	215	1.2	<0.02	3.3	4.22	<0.1	0.22
1299936	Soil	11.9	56.7	0.35	245.7	0.005	2	0.94	0.002	0.07	0.3	1.4	0.11	<0.02	64	0.8	<0.02	2.8	1.57	<0.1	<0.02
1299937	Soil	38.0	35.2	0.40	267.9	0.006	<1	0.80	0.003	0.11	0.4	2.7	0.08	<0.02	88	0.9	<0.02	1.8	3.61	<0.1	0.03

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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299908	Soil	0.39	6.6	1.5	<0.05	0.5	6.14	36.0	0.03	<1	0.6	16.4	<10	<2
1299909	Soil	0.18	11.6	1.8	<0.05	<0.1	2.68	32.0	0.02	<1	0.2	4.7	<10	<2
1299910	Soil	0.46	13.3	1.3	<0.05	0.9	2.68	27.6	0.03	<1	0.3	12.8	<10	<2
1299911	Soil	0.16	4.5	0.9	<0.05	0.3	1.91	14.8	<0.02	<1	0.1	1.2	<10	<2
1299912	Soil	0.27	8.8	2.7	<0.05	0.6	7.04	31.6	0.05	<1	0.7	13.7	<10	<2
1299913	Soil	0.45	8.9	1.5	<0.05	1.4	4.25	21.2	0.03	<1	1.2	19.1	<10	3
1299914	Soil	0.37	6.4	2.1	<0.05	0.5	1.63	25.8	0.02	<1	<0.1	14.1	<10	2
1299915	Soil	0.48	6.8	3.5	<0.05	1.1	2.89	19.7	0.03	<1	0.8	18.7	<10	2
1299916	Soil	0.38	7.7	1.1	<0.05	2.5	7.72	24.4	0.02	<1	1.1	18.5	<10	5
1299917 (1299919)	Soil	0.48	6.9	1.2	<0.05	1.6	6.81	28.6	<0.02	<1	1.1	13.2	<10	3
1299918 (No Tag)	Soil	0.49	7.5	2.1	<0.05	1.7	7.18	31.5	0.03	<1	0.9	13.8	12	5
1299919 (No Tag)	Soil	0.75	10.2	2.6	<0.05	1.1	3.25	24.5	0.03	<1	0.8	11.4	<10	5
1299920	Soil	0.62	10.2	2.3	<0.05	1.5	4.95	23.2	0.02	<1	0.8	12.3	<10	2
1299921	Soil	0.39	8.3	3.2	<0.05	0.3	3.82	33.0	<0.02	<1	0.3	13.8	<10	<2
1299922	Soil	0.63	10.0	2.2	<0.05	0.5	2.58	43.1	0.02	<1	0.2	6.8	<10	<2
1299923	Soil	0.76	9.5	2.3	<0.05	1.0	2.61	32.7	<0.02	<1	0.5	5.4	<10	3
1299924	Soil	0.43	10.4	2.1	<0.05	1.6	6.95	50.2	0.02	<1	0.8	24.1	<10	<2
1299925	Soil	0.59	7.5	1.8	<0.05	0.3	3.63	29.6	0.02	2	0.2	10.5	<10	<2
1299926	Soil	0.09	2.4	0.4	<0.05	0.3	2.42	6.4	<0.02	2	<0.1	1.9	<10	<2
1299927	Soil	0.46	7.8	3.1	<0.05	0.4	6.28	30.3	<0.02	<1	0.6	11.7	<10	3
1299928	Soil	0.36	5.1	0.6	<0.05	0.9	7.17	35.2	<0.02	<1	1.2	14.2	<10	3
1299929	Soil	0.31	7.7	1.3	<0.05	0.2	7.28	31.8	0.02	<1	0.7	7.9	<10	<2
1299930	Soil	0.54	8.0	0.8	<0.05	1.9	6.35	19.4	0.02	<1	0.2	11.8	<10	<2
1299931	Soil	0.42	5.7	0.8	<0.05	1.7	4.91	14.6	0.03	<1	0.3	6.6	<10	<2
1299932	Soil	0.38	7.3	1.0	<0.05	1.6	10.09	20.5	0.02	<1	0.6	10.7	<10	<2
1299933	Soil	0.36	7.7	0.5	<0.05	1.4	7.45	33.4	0.03	<1	0.5	10.9	<10	<2
1299934	Soil	0.36	6.8	1.4	<0.05	1.4	10.22	35.4	0.04	<1	0.4	11.0	<10	<2
1299935	Soil	0.48	12.4	0.6	<0.05	5.0	15.47	21.8	0.04	<1	0.6	10.2	<10	<2
1299936	Soil	0.19	9.1	1.1	<0.05	0.3	4.44	23.4	<0.02	<1	0.4	7.7	<10	3
1299937	Soil	0.18	8.7	0.5	<0.05	9.1	9.00	70.2	<0.02	<1	0.7	12.1	<10	<2

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Project: Rivier  
 Report Date: November 24, 2011

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# CERTIFICATE OF ANALYSIS

WHI11001713.1

Method Analyte	Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		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
1299938	Soil	5.03	120.6	21.65	150.4	1267	64.0	24.6	987	3.65	144.5	2.1	9.2	8.7	30.2	1.84	6.68	0.25	19	0.14	0.077
1299939	Soil	1.14	20.41	9.39	58.6	2318	19.0	2.1	69	1.01	33.8	1.2	12.0	0.1	10.7	0.30	3.22	0.08	17	0.10	0.071
1299940	Soil	5.77	99.54	29.76	244.6	1302	55.9	13.9	532	3.15	121.7	2.6	23.2	1.9	22.7	1.17	11.41	0.25	41	0.20	0.142
1299941	Soil	2.61	35.09	14.23	86.9	577	52.5	15.0	505	2.76	40.0	1.0	3.7	3.1	20.0	0.59	2.04	0.20	38	0.25	0.090
1299942	Soil	1.03	32.51	9.01	75.5	225	86.8	20.2	543	3.15	13.3	1.2	2.4	3.0	54.9	0.20	1.13	0.13	53	0.84	0.171
1299943	Soil	2.60	28.10	17.29	102.1	547	49.5	12.7	434	3.77	69.4	4.7	9.2	1.7	35.8	0.63	2.24	0.26	28	0.48	0.130
1299944	Soil	0.92	24.54	17.32	66.2	272	32.9	10.1	408	2.21	30.4	1.3	3.0	1.7	45.1	0.18	1.12	0.29	20	0.62	0.095
1299945	Soil	16.38	173.4	36.78	166.1	804	40.4	9.3	239	3.06	120.5	4.0	10.4	8.0	45.3	1.71	11.64	0.28	31	0.16	0.141
1299946	Soil	1.93	53.54	16.52	167.8	1369	85.5	34.1	763	6.21	2287	0.9	730.0	12.4	22.3	0.78	12.63	0.31	17	0.30	0.078
1299947	Soil	1.99	20.36	14.54	70.1	474	38.4	10.1	330	2.45	46.9	1.8	6.6	2.0	31.4	0.13	1.76	0.19	34	0.42	0.129
1299948	Soil	1.16	27.70	17.17	101.5	749	52.6	10.5	378	2.29	36.8	2.8	8.3	2.7	48.0	0.80	2.19	0.24	27	0.60	0.178
1299949	Soil	2.74	27.63	15.63	62.3	1101	41.2	13.5	394	1.86	60.7	1.5	12.5	0.4	21.2	0.20	6.77	0.14	21	0.26	0.099
1299950	Soil	1.72	35.40	16.44	86.7	1054	75.4	15.4	443	2.94	111.0	0.7	18.6	5.0	22.2	0.37	4.50	0.24	36	0.42	0.099
1299951	Soil	1.47	27.20	16.15	107.7	334	45.5	9.3	302	2.12	31.4	0.9	9.1	3.6	40.5	0.64	2.13	0.23	37	0.66	0.128
1299952	Soil	1.56	47.36	14.33	141.6	435	58.7	11.7	429	2.42	39.1	2.0	8.9	2.0	52.5	1.18	2.25	0.26	41	0.91	0.142
1299953	Soil	0.33	62.39	8.15	98.7	107	199.3	34.8	752	4.52	7.6	0.3	2.9	4.0	43.4	0.20	0.51	0.09	72	0.80	0.251
1299954	Soil	1.61	17.36	15.85	88.9	39	32.8	9.0	336	2.47	24.0	0.6	3.2	4.6	25.3	0.32	1.64	0.23	43	0.28	0.080
1299955	Soil	1.22	68.94	14.65	108.5	301	116.9	25.4	1213	4.44	29.7	0.6	7.2	8.0	42.0	0.28	2.25	0.23	74	0.60	0.207
1299956	Soil	1.17	25.22	8.37	82.5	281	32.7	7.8	295	1.65	11.4	0.7	6.1	1.6	53.1	0.64	1.34	0.20	31	0.87	0.088
1299957	Soil	1.66	26.07	13.95	114.5	160	36.6	13.0	577	2.43	15.7	0.9	4.1	5.1	31.9	0.75	1.51	0.24	41	0.39	0.117
1299958	Soil	1.55	15.62	11.88	106.4	220	29.2	9.6	473	2.21	33.8	0.6	3.6	2.2	36.1	0.44	1.40	0.22	41	0.61	0.099
1299959	Soil	1.83	31.42	14.34	81.8	613	40.8	12.4	422	3.20	96.6	1.5	8.7	3.8	28.7	0.26	2.10	0.34	25	0.33	0.101
1299960	Soil	1.20	35.78	9.92	66.7	335	45.3	15.1	684	3.64	53.1	1.2	4.1	6.7	19.1	0.14	2.00	0.30	26	0.21	0.095
1299961	Soil	2.56	48.91	17.51	77.3	806	42.1	15.3	500	3.93	131.6	1.5	8.3	4.8	17.9	0.24	2.65	0.57	24	0.15	0.087
1299962	Soil	1.92	51.74	15.03	73.4	460	39.9	17.3	492	3.70	83.4	2.0	4.9	7.1	22.6	0.23	3.37	0.58	16	0.15	0.074
1299963	Soil	2.00	51.71	24.47	74.2	517	39.5	23.3	1358	4.36	109.0	1.3	4.1	4.2	10.8	0.18	2.27	0.65	21	0.05	0.071
1299964	Soil	1.55	16.64	12.97	26.6	1397	13.7	3.8	104	1.46	70.3	0.9	9.8	0.1	8.1	0.08	1.33	0.22	22	0.03	0.076
1299965	Soil	2.07	42.81	17.40	65.6	1029	39.6	25.9	1601	4.19	164.0	0.9	13.6	2.5	9.1	0.25	2.89	0.45	29	0.06	0.075
1299967	Silt	1.65	26.31	15.77	71.3	511	35.4	10.0	263	2.95	154.7	0.9	28.0	1.0	10.8	0.20	3.18	0.25	30	0.10	0.078
1299968	Silt	9.36	165.3	18.28	112.0	651	42.0	16.2	604	3.69	180.0	3.7	7.2	1.9	28.9	1.03	5.15	0.37	31	0.18	0.153



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Project: Rivier  
 Report Date: November 24, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	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	
1299938	Soil	24.1	11.6	0.09	136.1	0.001	2	0.34	0.002	0.08	0.6	2.4	0.09	0.03	64	1.0	0.07	0.9	2.53	<0.1	0.05
1299939	Soil	3.3	9.0	0.11	95.2	0.005	<1	0.49	0.017	0.03	<0.1	0.3	0.08	0.04	75	0.6	<0.02	1.9	0.94	<0.1	<0.02
1299940	Soil	20.0	36.5	0.47	371.0	0.008	9	1.25	0.002	0.07	0.3	1.9	0.17	<0.02	96	1.8	0.06	3.7	2.13	<0.1	<0.02
1299941	Soil	20.3	51.5	0.58	223.0	0.026	<1	1.07	0.005	0.06	0.3	1.9	0.07	<0.02	57	1.1	0.13	3.4	1.36	<0.1	<0.02
1299942	Soil	20.1	122.5	1.36	356.8	0.040	<1	1.69	0.004	0.06	<0.1	3.4	0.09	0.03	75	0.2	<0.02	5.6	2.12	<0.1	0.02
1299943	Soil	15.9	63.8	0.54	297.5	0.011	<1	1.07	0.006	0.05	0.3	2.1	0.07	0.06	57	1.1	<0.02	2.9	12.90	<0.1	0.07
1299944	Soil	13.5	23.0	0.25	369.6	0.006	10	1.03	0.010	0.06	0.2	1.4	0.11	0.06	53	1.6	0.04	2.8	5.19	<0.1	0.08
1299945	Soil	13.5	19.0	0.24	205.6	0.018	<1	0.58	0.003	0.07	0.2	2.4	0.09	0.07	79	4.2	0.12	1.6	1.28	<0.1	0.11
1299946	Soil	21.3	18.3	0.24	127.2	0.006	3	0.45	0.005	0.09	0.3	5.9	0.07	<0.02	30	0.8	<0.02	1.2	2.40	<0.1	0.14
1299947	Soil	14.9	50.5	0.49	450.9	0.008	<1	1.26	0.003	0.06	0.2	1.5	0.10	0.06	38	1.1	0.03	3.8	2.10	<0.1	0.04
1299948	Soil	14.1	57.1	0.54	498.7	0.005	<1	1.33	0.006	0.04	0.2	2.5	0.11	0.13	46	1.5	<0.02	3.4	1.93	<0.1	0.13
1299949	Soil	11.4	46.1	0.27	181.6	0.004	<1	0.77	0.015	0.04	0.2	0.5	0.11	0.04	56	0.7	0.07	2.4	1.57	<0.1	<0.02
1299950	Soil	21.0	80.6	0.78	285.9	0.012	2	1.14	0.005	0.04	0.3	3.3	0.08	<0.02	57	0.2	0.03	3.4	1.29	<0.1	0.06
1299951	Soil	16.0	39.4	0.58	314.6	0.013	3	0.99	0.009	0.07	0.3	2.5	0.12	0.03	118	0.3	0.03	3.2	0.95	<0.1	0.04
1299952	Soil	18.1	53.2	0.81	427.0	0.011	3	1.24	0.010	0.07	0.2	2.4	0.14	0.08	153	0.7	0.02	3.9	2.09	<0.1	0.07
1299953	Soil	20.5	312.3	4.41	148.1	0.094	2	3.33	0.005	0.03	0.1	3.9	0.07	<0.02	42	0.2	<0.02	11.8	1.91	<0.1	0.04
1299954	Soil	18.1	41.4	0.62	288.9	0.014	2	1.14	0.004	0.05	0.2	1.9	0.10	<0.02	38	0.2	0.03	4.0	0.89	<0.1	<0.02
1299955	Soil	41.0	173.1	2.21	316.5	0.016	2	2.25	0.006	0.05	0.2	8.7	0.07	<0.02	67	<0.1	0.03	8.3	1.28	<0.1	0.07
1299956	Soil	11.3	37.7	0.53	428.6	0.011	2	0.97	0.013	0.06	0.3	1.8	0.11	0.05	101	0.4	0.03	3.2	0.77	<0.1	0.05
1299957	Soil	18.3	44.7	0.67	293.7	0.025	2	1.10	0.010	0.07	0.2	2.6	0.10	<0.02	69	0.3	0.04	3.4	0.73	<0.1	0.03
1299958	Soil	13.5	44.0	0.58	268.7	0.013	2	1.04	0.008	0.06	0.2	2.0	0.10	0.03	63	0.4	0.05	3.7	0.81	<0.1	0.04
1299959	Soil	16.7	44.3	0.45	146.7	0.008	1	0.99	0.007	0.05	0.3	2.5	0.05	0.03	73	0.5	0.04	2.8	5.72	<0.1	0.03
1299960	Soil	26.5	43.7	0.41	114.4	0.005	1	0.93	0.004	0.05	0.3	2.8	0.05	<0.02	49	0.2	0.03	2.6	1.96	<0.1	0.02
1299961	Soil	18.9	35.5	0.43	93.1	0.008	1	1.05	0.005	0.05	0.4	1.8	0.06	0.02	45	0.6	0.06	3.1	2.14	<0.1	0.03
1299962	Soil	22.9	18.5	0.21	88.7	0.009	<1	0.43	0.003	0.05	0.5	2.0	0.04	<0.02	34	0.7	0.07	1.5	1.71	<0.1	<0.02
1299963	Soil	21.9	29.2	0.44	56.8	0.007	<1	1.22	0.005	0.04	0.3	1.3	0.05	0.03	22	0.4	0.09	3.7	1.55	<0.1	0.03
1299964	Soil	10.2	25.4	0.15	89.5	0.002	<1	0.84	0.009	0.03	0.2	0.2	0.12	0.03	66	0.4	0.03	3.6	1.78	<0.1	<0.02
1299965	Soil	20.1	38.7	0.38	68.1	0.009	<1	1.28	0.004	0.03	0.4	1.5	0.07	0.02	34	0.5	0.06	3.9	1.58	<0.1	<0.02
1299967	Silt	22.4	42.8	0.37	45.7	0.011	<1	0.90	0.004	0.03	0.5	1.2	0.08	<0.02	31	0.3	0.04	3.2	1.72	<0.1	<0.02
1299968	Silt	16.5	26.1	0.27	102.4	0.009	<1	0.71	0.006	0.05	0.4	1.3	0.06	0.02	41	2.4	0.05	1.9	2.51	<0.1	<0.02

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.



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Project: Rivier  
 Report Date: November 24, 2011

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299938	Soil	0.07	5.4	0.3	<0.05	3.7	6.75	44.7	<0.02	<1	0.4	2.7	<10	4
1299939	Soil	0.08	4.4	0.3	<0.05	0.1	2.13	6.4	<0.02	<1	0.3	2.7	<10	2
1299940	Soil	0.24	12.3	0.8	<0.05	0.9	9.80	36.9	0.03	<1	0.5	15.0	<10	<2
1299941	Soil	0.54	7.0	0.7	<0.05	0.4	6.59	39.7	<0.02	<1	0.4	14.2	<10	<2
1299942	Soil	1.08	8.8	0.9	<0.05	1.4	8.07	39.5	0.02	<1	0.9	21.6	<10	<2
1299943	Soil	0.37	7.7	0.5	<0.05	1.8	12.01	26.0	0.02	<1	0.7	9.9	<10	<2
1299944	Soil	0.50	14.7	0.7	<0.05	2.8	6.82	21.6	<0.02	<1	0.5	12.7	<10	<2
1299945	Soil	0.25	5.7	0.5	<0.05	7.3	9.94	24.4	<0.02	2	0.5	5.2	<10	5
1299946	Soil	0.23	5.5	0.5	<0.05	8.2	11.48	40.2	0.04	<1	1.0	3.5	<10	3
1299947	Soil	0.56	7.9	1.0	<0.05	1.5	6.11	30.1	0.02	<1	0.9	12.1	<10	<2
1299948	Soil	0.51	8.9	0.9	<0.05	5.2	11.24	25.9	0.03	1	0.7	10.2	<10	<2
1299949	Soil	0.15	6.7	0.5	<0.05	0.4	3.50	21.4	<0.02	4	0.5	6.0	<10	<2
1299950	Soil	0.35	6.8	0.6	<0.05	1.5	8.15	39.7	0.04	<1	0.6	14.8	<10	<2
1299951	Soil	0.53	7.2	0.9	<0.05	1.8	8.09	30.0	0.03	1	0.4	15.7	<10	<2
1299952	Soil	0.65	11.9	0.5	<0.05	2.7	11.74	31.1	0.03	<1	0.7	17.6	<10	<2
1299953	Soil	0.82	4.7	0.5	<0.05	1.8	5.22	36.5	0.05	<1	0.8	50.6	<10	<2
1299954	Soil	0.52	7.8	0.6	<0.05	1.2	4.60	35.9	0.02	2	0.3	20.2	<10	<2
1299955	Soil	0.24	4.8	0.7	<0.05	3.7	15.48	82.4	0.05	<1	0.7	33.6	<10	<2
1299956	Soil	0.65	8.1	0.5	<0.05	2.1	5.69	20.4	<0.02	1	0.5	12.0	<10	<2
1299957	Soil	0.64	6.8	0.7	<0.05	2.1	7.98	35.1	0.03	1	0.5	16.5	<10	<2
1299958	Soil	0.58	8.5	0.7	<0.05	1.1	3.94	25.3	<0.02	<1	0.3	14.2	<10	<2
1299959	Soil	0.29	6.0	1.0	<0.05	1.6	6.05	31.2	0.03	<1	0.4	16.3	<10	<2
1299960	Soil	0.24	5.3	0.6	<0.05	1.4	5.22	51.4	0.02	<1	0.4	13.5	<10	<2
1299961	Soil	0.31	6.5	0.6	<0.05	1.2	4.44	35.4	0.02	<1	0.4	14.7	<10	<2
1299962	Soil	0.17	3.9	0.5	<0.05	1.8	5.50	42.1	<0.02	<1	0.2	6.6	<10	<2
1299963	Soil	0.15	5.3	1.0	<0.05	0.9	3.67	43.1	<0.02	<1	0.2	16.7	<10	<2
1299964	Soil	0.10	6.1	0.8	<0.05	0.2	2.01	18.2	<0.02	<1	0.2	4.1	<10	<2
1299965	Soil	0.41	6.7	0.7	<0.05	0.4	3.48	39.7	0.02	<1	0.3	13.8	<10	<2
1299967	Silt	0.19	6.4	0.4	<0.05	<0.1	3.54	42.7	<0.02	<1	0.2	11.1	<10	<2
1299968	Silt	0.13	5.3	1.5	<0.05	0.3	7.95	31.3	0.04	<1	0.4	7.8	<10	<2



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Project: Rivier  
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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1299970	Soil			4.79	111.8	19.88	158.4	795	54.5	16.0	505	3.83	149.0	4.0	19.9	2.2	32.4	0.86	5.09	0.34	43	0.32	0.126
1299971	Soil			1.87	59.53	11.33	67.4	1042	51.7	14.6	803	2.47	93.5	2.4	6.0	0.4	31.3	0.56	3.12	0.17	22	0.37	0.087
1299972	Soil			6.48	128.0	19.79	128.1	912	75.1	18.5	771	4.00	216.5	3.3	12.7	3.3	23.5	0.99	8.79	0.31	30	0.21	0.120
1299973	Soil			1.23	22.94	13.69	121.3	570	55.8	8.9	333	2.06	158.2	1.2	16.5	1.7	27.7	0.69	25.91	0.23	33	0.41	0.096
1299974	Soil			1.37	22.23	15.90	132.6	402	36.1	11.7	513	2.24	56.8	1.0	10.6	2.1	41.0	0.51	2.85	0.28	42	0.60	0.110
1299975	Soil			1.63	71.09	14.33	106.7	381	127.6	26.0	561	4.33	61.6	0.8	13.2	3.5	40.4	0.60	6.41	0.18	79	1.17	0.160
1299976	Soil			1.24	18.85	13.19	91.1	356	32.4	9.8	418	1.86	32.0	0.7	7.3	2.5	43.2	0.38	2.50	0.21	32	0.79	0.085
1299977	Soil			1.11	25.78	10.73	51.7	402	35.4	8.8	488	1.57	40.6	2.3	7.2	1.2	57.9	0.25	1.94	0.18	28	1.04	0.098
1299978	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1299979	Soil			1.65	21.78	13.10	86.1	304	49.6	12.2	361	2.60	50.0	0.9	7.0	3.8	40.5	0.23	2.34	0.25	44	0.66	0.135
1299980	Soil			1.66	21.79	16.66	93.8	165	52.6	11.5	366	2.67	75.4	0.8	7.8	3.5	26.2	0.32	3.49	0.23	43	0.29	0.120
1299981	Soil			1.48	42.03	41.56	101.0	190	65.0	17.7	677	3.04	50.1	2.2	4.7	3.6	38.0	0.28	1.77	0.31	45	0.57	0.092
1299982	Soil			1.48	30.47	11.43	93.1	334	52.3	13.8	468	2.64	14.1	0.9	2.9	3.2	47.3	0.42	1.51	0.19	49	0.90	0.137
1299983	Soil			1.29	22.67	9.98	54.8	434	32.5	8.0	247	1.99	31.2	0.8	2.5	0.6	13.9	0.10	0.87	0.30	28	0.14	0.051
1299984	Soil			1.48	26.31	24.48	128.3	95	34.8	17.6	592	4.10	127.8	0.9	2.6	3.4	5.3	0.17	1.61	0.52	17	0.02	0.057
1299985	Soil			2.15	29.28	14.93	113.0	276	38.5	11.0	488	2.92	35.7	0.9	5.4	1.1	13.8	0.51	1.78	0.31	46	0.12	0.085
1299986	Soil			3.19	14.73	22.20	94.6	473	23.6	7.6	431	2.68	51.8	2.8	4.8	0.6	8.8	0.62	2.13	0.30	35	0.08	0.147
1299987	Soil			1.52	63.22	39.36	112.9	2506	41.3	16.9	734	3.44	245.3	1.0	21.8	8.4	12.6	0.58	7.92	0.38	12	0.19	0.052
1299988	Soil			2.58	44.32	140.2	100.8	2284	71.1	17.0	700	4.17	342.4	1.1	47.9	6.4	12.7	0.73	13.57	0.43	29	0.13	0.081
1299989	Soil			3.64	66.71	100.2	147.6	2922	111.4	23.1	928	5.18	579.8	1.5	57.9	5.7	19.2	1.03	15.21	0.47	39	0.23	0.116
1299990	Soil			1.70	20.94	24.59	120.3	506	99.0	17.4	459	4.01	439.0	1.3	17.3	2.8	19.4	0.30	7.28	0.32	39	0.25	0.094
1299991	Soil			2.13	40.94	38.07	184.3	2568	84.6	13.3	377	4.09	679.2	1.9	56.8	4.0	39.9	0.56	11.15	0.40	32	0.63	0.150
1299992	Soil			1.96	40.34	21.61	273.6	1736	138.9	12.0	496	3.51	412.5	6.1	25.6	2.2	52.3	2.14	10.55	0.34	27	0.98	0.195
1299993	Soil			2.46	42.04	15.84	73.8	1197	98.1	13.7	840	2.95	449.3	2.9	13.2	1.8	55.8	0.37	9.51	0.35	36	0.92	0.365
1299994	Soil			1.68	53.95	16.30	90.2	985	254.1	33.5	782	4.55	705.0	0.8	77.6	5.7	36.2	0.33	18.52	0.23	43	0.54	0.104
1299995	Soil			2.52	29.39	23.73	121.7	374	286.1	32.0	828	4.24	391.0	1.0	24.2	4.7	17.6	0.87	9.31	0.26	47	0.26	0.078
1299996	Soil			2.16	17.31	11.10	57.7	121	69.9	5.7	291	2.12	78.6	0.7	2.0	1.8	12.0	0.39	2.14	0.24	35	0.23	0.057
1299997	Soil			4.40	26.58	21.06	95.4	447	70.1	10.3	426	2.96	110.8	1.0	3.3	0.6	17.5	0.55	3.29	0.27	43	0.31	0.095
1299998	Soil			5.88	31.51	12.29	87.9	158	45.1	10.7	338	2.34	28.7	1.1	4.3	5.0	12.4	0.43	2.34	0.22	42	0.14	0.060
1299999	Soil			4.42	16.08	15.25	73.4	75	24.9	7.2	264	3.81	75.6	0.7	1.0	3.3	5.4	0.26	1.56	0.25	51	0.04	0.057

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Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	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	
1299970	Soil	16.9	48.6	0.57	196.3	0.012	1	1.23	0.008	0.05	0.7	3.1	0.09	0.02	69	1.8	0.04	3.7	2.34	<0.1	<0.02
1299971	Soil	9.5	33.1	0.29	192.8	0.006	2	0.92	0.015	0.04	0.3	1.8	0.07	0.05	40	0.6	<0.02	2.6	1.67	<0.1	<0.02
1299972	Soil	16.7	43.4	0.34	141.1	0.007	1	0.86	0.005	0.04	0.4	3.1	0.07	0.02	44	1.7	0.04	2.4	1.61	<0.1	<0.02
1299973	Soil	13.5	32.4	0.44	290.0	0.014	2	0.98	0.008	0.07	0.2	2.2	0.11	0.04	81	0.4	0.02	2.9	1.24	<0.1	0.03
1299974	Soil	15.3	36.4	0.47	429.6	0.012	2	1.17	0.007	0.07	0.2	2.6	0.11	0.04	97	0.4	0.02	3.5	0.88	<0.1	0.05
1299975	Soil	54.4	157.6	0.93	349.8	0.009	2	1.36	0.007	0.07	0.9	10.6	0.12	0.06	515	0.4	<0.02	4.9	11.99	<0.1	0.05
1299976	Soil	12.4	28.6	0.44	423.7	0.009	2	0.93	0.010	0.06	0.2	2.2	0.09	0.04	86	0.3	0.02	3.1	1.05	<0.1	0.07
1299977	Soil	10.2	26.1	0.43	421.6	0.007	2	0.99	0.018	0.06	0.2	1.8	0.10	0.07	112	0.6	<0.02	2.8	0.99	<0.1	0.07
1299978	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1299979	Soil	18.8	67.5	0.80	283.5	0.017	1	1.20	0.006	0.06	0.3	2.8	0.09	0.02	95	0.4	0.03	4.2	0.94	<0.1	0.05
1299980	Soil	18.0	52.6	0.66	203.5	0.016	2	1.20	0.004	0.05	0.2	2.1	0.11	<0.02	43	0.3	0.03	3.8	1.14	<0.1	<0.02
1299981	Soil	32.8	101.6	1.19	309.2	0.007	2	1.68	0.007	0.05	0.2	3.8	0.08	0.06	54	0.6	0.02	5.6	1.98	<0.1	0.12
1299982	Soil	19.2	77.4	0.93	419.9	0.021	2	1.28	0.009	0.07	0.2	4.0	0.10	0.03	114	0.4	0.02	4.5	1.22	<0.1	0.04
1299983	Soil	13.2	39.1	0.39	168.6	0.009	1	1.06	0.014	0.05	0.2	1.2	0.08	<0.02	68	0.4	<0.02	3.2	3.36	<0.1	<0.02
1299984	Soil	25.4	11.8	0.04	47.5	0.003	2	0.31	0.004	0.04	0.5	1.1	0.10	<0.02	8	0.3	0.04	1.5	4.90	<0.1	<0.02
1299985	Soil	16.2	48.0	0.44	332.9	0.008	<1	1.32	0.004	0.06	0.2	1.6	0.14	<0.02	67	0.4	0.03	3.9	1.25	<0.1	<0.02
1299986	Soil	13.9	48.5	0.34	105.6	0.006	<1	1.30	0.003	0.05	0.3	0.7	0.14	0.03	34	0.6	<0.02	3.7	1.76	<0.1	<0.02
1299987	Soil	18.7	12.7	0.14	145.5	0.003	1	0.40	0.003	0.05	0.2	2.3	0.06	0.02	41	0.6	0.06	1.0	1.25	<0.1	0.05
1299988	Soil	20.5	54.5	0.38	211.7	0.006	1	0.97	0.003	0.04	0.4	2.8	0.10	<0.02	74	0.9	0.07	2.1	1.37	<0.1	0.02
1299989	Soil	20.0	71.7	0.55	292.3	0.009	2	0.95	0.003	0.08	0.4	5.5	0.12	<0.02	113	1.5	0.06	2.4	1.84	<0.1	0.02
1299990	Soil	16.3	70.0	0.80	351.2	0.005	2	1.32	0.002	0.08	0.5	3.0	0.18	0.02	27	0.7	0.04	3.8	4.13	<0.1	0.04
1299991	Soil	12.2	57.6	0.35	240.0	0.003	3	0.96	0.004	0.06	0.5	4.6	0.15	0.08	199	1.3	0.05	2.4	3.46	<0.1	0.18
1299992	Soil	12.3	53.7	0.43	286.4	0.006	3	1.15	0.005	0.06	0.5	3.9	0.14	0.14	97	1.2	0.04	2.8	2.37	<0.1	0.08
1299993	Soil	12.2	43.8	0.49	549.2	0.008	2	1.29	0.009	0.05	0.4	2.9	0.17	0.22	77	1.0	0.03	3.6	2.17	<0.1	0.12
1299994	Soil	18.3	79.4	0.85	292.9	0.010	4	1.09	0.006	0.11	0.6	6.4	0.15	<0.02	67	0.5	0.04	2.7	2.62	<0.1	0.06
1299995	Soil	17.4	229.5	1.29	292.6	0.007	2	1.28	0.002	0.07	0.3	4.2	0.13	<0.02	59	0.6	0.05	3.6	2.04	<0.1	0.04
1299996	Soil	14.3	39.3	0.61	281.4	0.007	1	1.06	0.002	0.06	0.5	1.5	0.10	0.03	12	0.5	0.05	4.2	2.39	<0.1	<0.02
1299997	Soil	15.9	63.3	0.60	308.5	0.006	2	1.23	0.002	0.07	0.4	1.2	0.10	0.03	40	1.5	0.05	4.0	2.36	<0.1	<0.02
1299998	Soil	19.6	31.3	0.48	231.7	0.016	<1	1.13	0.003	0.05	0.2	2.4	0.08	<0.02	68	1.4	0.07	3.2	0.91	<0.1	0.03
1299999	Soil	15.7	35.9	0.34	78.7	0.008	<1	1.36	<0.001	0.07	0.2	1.4	0.12	<0.02	36	1.0	0.05	4.2	1.71	<0.1	<0.02

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Project: Rivier  
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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1299970	Soil	0.29	7.7	1.0	<0.05	0.2	8.82	31.7	0.03	<1	0.5	15.5	<10	<2
1299971	Soil	0.32	7.6	0.7	<0.05	0.4	7.23	18.1	0.03	<1	0.4	8.7	<10	<2
1299972	Soil	0.21	6.8	1.4	<0.05	0.4	8.56	31.0	0.03	<1	0.3	10.9	<10	<2
1299973	Soil	0.56	10.2	0.5	<0.05	1.4	7.84	24.5	<0.02	2	0.5	12.4	<10	<2
1299974	Soil	0.71	9.7	0.6	<0.05	1.6	8.44	28.8	0.03	<1	0.4	15.1	<10	<2
1299975	Soil	0.77	8.9	0.8	<0.05	1.9	17.19	82.9	0.05	<1	0.9	17.6	<10	<2
1299976	Soil	0.54	6.3	0.6	<0.05	2.5	4.68	24.3	<0.02	<1	0.3	12.5	<10	<2
1299977	Soil	0.50	7.7	0.5	<0.05	3.0	7.11	18.8	0.02	<1	0.3	9.7	<10	<2
1299978	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1299979	Soil	0.80	7.0	0.9	<0.05	1.5	6.55	36.4	0.02	<1	0.4	18.6	<10	<2
1299980	Soil	0.58	7.8	0.7	<0.05	0.6	5.77	35.3	0.03	<1	0.3	17.7	<10	<2
1299981	Soil	0.58	10.4	1.7	<0.05	3.6	12.32	60.0	0.02	<1	0.6	23.1	<10	<2
1299982	Soil	0.61	7.3	0.9	<0.05	1.7	7.72	37.0	0.03	<1	0.5	19.9	<10	<2
1299983	Soil	0.29	8.2	0.7	<0.05	0.1	4.90	24.3	<0.02	<1	0.2	13.6	<10	<2
1299984	Soil	0.15	9.1	1.0	<0.05	0.3	2.13	48.9	<0.02	<1	0.2	0.8	<10	<2
1299985	Soil	0.30	10.9	0.7	<0.05	0.3	5.26	31.0	0.02	<1	0.4	14.0	<10	<2
1299986	Soil	0.27	16.2	0.5	<0.05	0.3	3.11	27.3	0.02	<1	0.4	11.6	<10	<2
1299987	Soil	0.09	4.8	0.7	<0.05	2.7	6.95	33.8	0.02	<1	0.4	3.8	<10	<2
1299988	Soil	0.34	7.7	0.5	<0.05	1.1	7.55	40.5	0.04	1	0.6	11.7	<10	<2
1299989	Soil	0.34	7.9	0.6	<0.05	1.2	13.76	39.1	0.05	<1	0.6	11.1	<10	<2
1299990	Soil	0.41	14.5	1.1	<0.05	1.1	7.18	35.2	0.04	<1	0.6	14.0	<10	<2
1299991	Soil	0.26	11.9	1.0	<0.05	4.4	12.91	22.5	0.06	2	0.5	6.2	<10	<2
1299992	Soil	0.51	13.6	0.5	0.06	2.4	14.30	24.7	0.04	1	0.7	9.9	<10	<2
1299993	Soil	0.61	11.4	0.8	<0.05	3.8	12.80	22.8	0.04	<1	0.8	7.0	<10	<2
1299994	Soil	0.34	9.4	1.2	<0.05	2.0	11.70	36.3	0.04	<1	0.6	11.6	<10	2
1299995	Soil	0.35	9.1	1.0	<0.05	1.4	8.61	39.5	0.03	1	0.6	18.7	<10	2
1299996	Soil	0.51	10.3	0.8	<0.05	0.5	3.29	29.3	<0.02	<1	0.2	11.2	<10	<2
1299997	Soil	0.33	14.0	1.5	<0.05	0.6	5.33	33.2	0.03	<1	0.4	18.0	<10	<2
1299998	Soil	0.33	5.1	0.6	<0.05	0.9	8.72	40.9	<0.02	2	0.5	16.2	<10	<2
1299999	Soil	0.84	8.7	0.7	<0.05	0.5	2.76	32.5	0.03	<1	0.2	14.6	<10	<2

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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	
1300000 Soil	6.14	34.39	8.53	78.9	51	42.4	8.8	239	2.69	24.6	1.0	4.5	4.4	9.2	0.34	1.16	0.23	53	0.11	0.048	



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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
1300000 Soil	16.1	42.9	0.59	165.8	0.033	1	1.64	0.003	0.06	0.3	2.3	0.10	<0.02	64	1.6	0.07	4.5	1.48	<0.1	0.02



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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
1300000 Soil	1.01	7.4	0.7	<0.05	1.0	5.06	32.4	0.03	<1	0.5	15.6	<10	<2



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QUALITY CONTROL REPORT

WHI11001713.1

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																					
1299708	Soil	1.70	34.81	14.06	117.8	621	351.7	16.9	342	2.95	183.4	0.8	24.1	3.1	24.0	0.59	8.00	0.18	41	0.41	0.093
REP 1299708	QC	1.74	34.27	13.85	114.7	630	347.3	17.0	338	2.93	179.2	0.8	21.2	3.1	22.8	0.60	8.16	0.17	40	0.40	0.090
1299724	Soil	0.85	13.65	12.28	69.1	37	177.9	17.2	366	2.72	46.3	0.9	0.4	0.9	9.0	0.38	1.24	0.19	35	0.10	0.053
REP 1299724	QC	0.83	13.57	12.52	69.2	35	178.3	17.0	366	2.70	45.2	0.8	0.8	1.0	8.5	0.37	1.11	0.17	34	0.10	0.053
1299745	Soil	0.83	16.66	11.16	45.9	268	673.2	35.3	398	3.00	26.4	0.6	3.6	1.7	10.0	0.21	1.58	0.13	37	0.17	0.058
REP 1299745	QC	0.74	15.88	11.38	46.9	264	672.2	35.9	380	3.00	26.2	0.7	3.5	1.8	9.8	0.23	1.61	0.14	37	0.16	0.056
1299763	Soil	1.31	11.91	12.11	65.6	111	95.7	9.3	264	2.06	69.6	0.6	5.0	2.3	12.1	0.45	2.90	0.23	36	0.12	0.047
REP 1299763	QC	1.28	11.37	11.45	63.7	117	94.6	9.1	253	2.07	65.9	0.5	5.4	2.3	12.2	0.36	2.57	0.21	36	0.13	0.044
1299775	Soil	0.90	12.08	10.60	63.5	183	160.7	14.6	344	2.28	150.9	0.5	4.0	1.2	10.3	0.31	10.92	0.20	28	0.10	0.052
REP 1299775	QC	0.86	11.81	10.71	64.8	163	163.6	15.0	345	2.32	148.5	0.5	3.6	1.3	10.7	0.30	10.85	0.20	28	0.09	0.052
1299792	Soil	1.33	42.78	10.89	99.8	424	85.6	21.4	672	3.64	140.0	0.8	45.2	6.9	23.7	0.25	2.18	0.19	48	0.40	0.113
REP 1299792	QC	1.31	41.77	10.78	99.6	434	87.3	22.1	666	3.64	141.4	0.8	43.2	6.9	24.1	0.24	2.17	0.20	51	0.43	0.114
1299815	Soil	1.40	14.03	20.97	43.3	841	15.2	5.8	201	1.86	39.7	1.0	4.7	0.7	6.4	0.15	0.99	0.21	27	0.08	0.061
REP 1299815	QC	1.47	14.63	21.68	44.4	882	15.9	5.8	204	1.89	40.7	1.1	9.2	0.8	6.6	0.19	0.97	0.23	27	0.09	0.063
1299840	Soil	1.09	18.00	12.84	65.8	61	109.5	12.8	364	2.42	43.4	1.1	2.5	4.2	13.6	0.35	1.14	0.22	37	0.21	0.069
REP 1299840	QC	1.13	17.88	13.32	66.1	60	111.8	13.0	371	2.49	44.3	1.2	3.0	4.1	13.5	0.37	1.13	0.23	37	0.21	0.071
1299854	Soil	1.51	12.25	11.81	72.0	98	22.4	5.9	156	2.00	27.9	0.5	1.7	1.2	21.2	0.49	1.26	0.21	40	0.33	0.075
REP 1299854	QC	1.45	12.17	11.61	71.4	84	22.1	5.7	155	1.96	27.4	0.5	2.5	1.3	20.4	0.44	1.18	0.21	38	0.33	0.075
1299860	Soil	1.14	28.01	12.57	74.1	322	407.1	27.4	520	2.97	683.9	0.7	117.8	5.4	37.2	0.37	37.72	0.21	35	0.46	0.081
REP 1299860	QC	1.11	28.61	12.44	72.1	323	411.5	28.3	502	2.98	690.1	0.7	115.2	5.5	35.6	0.35	39.76	0.22	35	0.46	0.080
1299883	Soil	1.60	22.08	10.58	111.7	180	41.5	12.9	590	2.59	23.0	1.0	6.1	1.8	18.6	0.43	1.33	0.26	49	0.26	0.132
REP 1299883	QC	1.56	22.67	10.47	114.0	160	41.9	12.8	589	2.56	22.6	1.0	3.4	1.8	18.6	0.43	1.35	0.20	49	0.25	0.130
1299897	Soil	2.17	25.15	31.98	111.2	272	152.6	17.5	549	3.81	201.1	0.9	10.2	3.2	11.7	0.56	7.17	0.28	40	0.18	0.077
REP 1299897	QC	2.09	24.57	31.48	110.7	270	149.3	17.1	559	3.78	195.5	0.8	9.4	3.1	11.4	0.53	7.01	0.27	39	0.19	0.077
1299928	Soil	1.66	18.47	15.04	86.2	154	39.1	11.4	463	2.46	126.1	0.8	7.7	4.4	25.3	0.40	4.21	0.16	32	0.29	0.106
REP 1299928	QC	1.63	17.48	15.01	81.1	145	36.2	10.4	458	2.42	124.2	0.8	9.8	4.3	24.3	0.38	4.14	0.15	32	0.29	0.099
1299945	Soil	16.38	173.4	36.78	166.1	804	40.4	9.3	239	3.06	120.5	4.0	10.4	8.0	45.3	1.71	11.64	0.28	31	0.16	0.141
REP 1299945	QC	16.21	177.0	36.74	175.6	813	42.7	9.5	235	3.09	122.3	4.0	17.0	8.2	47.1	1.77	12.25	0.28	31	0.17	0.144



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Project: Rivier  
 Report Date: November 24, 2011

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QUALITY CONTROL REPORT

WHI11001713.1

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	
Pulp Duplicates																					
1299708	Soil	13.1	167.5	1.35	258.2	0.008	4	1.15	0.004	0.11	0.5	4.6	0.13	0.04	107	0.4	0.02	2.9	1.51	<0.1	0.13
REP 1299708	QC	12.9	163.9	1.33	260.2	0.007	4	1.13	0.004	0.10	0.5	4.3	0.13	0.04	102	0.3	0.03	2.8	1.51	<0.1	0.10
1299724	Soil	14.8	198.5	0.95	191.1	0.014	<1	1.33	0.003	0.05	0.4	1.6	0.13	<0.02	25	0.2	<0.02	3.7	1.91	<0.1	<0.02
REP 1299724	QC	14.1	192.0	0.94	187.5	0.011	<1	1.29	0.003	0.05	0.4	1.5	0.12	<0.02	28	0.2	<0.02	3.5	1.68	<0.1	<0.02
1299745	Soil	8.5	667.0	5.57	101.0	0.021	10	0.85	0.007	0.05	0.7	5.0	0.04	0.05	23	0.3	0.04	2.2	0.61	<0.1	0.04
REP 1299745	QC	8.6	650.9	5.49	96.9	0.020	11	0.85	0.007	0.05	0.8	4.7	0.04	0.05	26	0.3	0.02	2.1	0.59	<0.1	0.03
1299763	Soil	19.9	101.6	0.70	230.1	0.018	2	0.85	0.003	0.07	0.3	1.6	0.10	<0.02	14	<0.1	0.02	3.4	1.01	<0.1	<0.02
REP 1299763	QC	19.1	100.7	0.70	215.8	0.018	2	0.85	0.003	0.07	0.3	1.5	0.09	<0.02	21	<0.1	<0.02	3.3	0.95	<0.1	<0.02
1299775	Soil	10.0	71.7	0.39	103.5	0.013	1	0.85	0.014	0.05	0.4	1.3	0.11	<0.02	15	<0.1	<0.02	3.1	1.29	<0.1	<0.02
REP 1299775	QC	10.0	72.1	0.39	102.8	0.012	1	0.86	0.014	0.05	0.3	1.3	0.11	<0.02	19	<0.1	<0.02	3.0	1.25	<0.1	<0.02
1299792	Soil	20.6	117.0	1.25	347.2	0.049	<1	1.67	0.004	0.05	0.2	4.6	0.09	<0.02	49	0.1	<0.02	5.2	2.30	<0.1	0.04
REP 1299792	QC	21.0	117.2	1.28	346.5	0.058	1	1.73	0.004	0.05	0.2	4.7	0.09	<0.02	45	0.2	0.05	5.5	2.47	<0.1	0.05
1299815	Soil	19.2	24.2	0.26	59.1	0.010	<1	1.06	0.005	0.07	0.2	0.9	0.12	<0.02	20	0.5	0.04	3.2	1.93	<0.1	<0.02
REP 1299815	QC	20.6	25.1	0.27	62.3	0.010	<1	1.07	0.005	0.07	0.2	1.0	0.12	<0.02	26	0.4	<0.02	3.3	1.96	<0.1	<0.02
1299840	Soil	20.6	83.5	0.68	148.5	0.036	1	1.13	0.006	0.06	0.3	2.4	0.09	<0.02	19	0.2	0.03	3.2	1.52	<0.1	<0.02
REP 1299840	QC	20.8	86.3	0.71	148.8	0.037	1	1.17	0.006	0.06	0.3	2.5	0.09	<0.02	22	0.2	0.05	3.4	1.55	<0.1	<0.02
1299854	Soil	12.3	34.0	0.41	157.5	0.006	<1	0.93	0.002	0.04	0.3	1.1	0.08	<0.02	23	0.3	<0.02	3.6	1.04	<0.1	<0.02
REP 1299854	QC	11.6	33.1	0.40	155.6	0.006	<1	0.90	0.002	0.04	0.3	1.1	0.07	<0.02	29	0.3	0.03	3.6	0.94	<0.1	<0.02
1299860	Soil	14.6	85.6	1.87	176.9	0.039	1	0.90	0.010	0.07	0.6	3.7	0.11	<0.02	59	0.2	0.04	2.7	1.07	<0.1	0.05
REP 1299860	QC	14.0	86.6	1.84	171.9	0.038	1	0.90	0.010	0.07	0.6	3.6	0.10	<0.02	52	0.2	0.03	2.7	1.02	<0.1	0.06
1299883	Soil	17.2	66.2	0.77	286.3	0.021	2	1.37	0.002	0.06	0.2	2.2	0.10	<0.02	52	0.3	0.02	4.6	1.51	<0.1	<0.02
REP 1299883	QC	17.1	67.6	0.76	284.3	0.022	2	1.38	0.002	0.06	0.3	2.1	0.13	<0.02	45	0.3	0.05	4.8	1.56	<0.1	<0.02
1299897	Soil	14.3	118.9	0.89	342.6	0.004	1	1.22	0.001	0.05	0.6	2.6	0.15	<0.02	51	0.6	0.05	3.4	2.24	<0.1	0.02
REP 1299897	QC	13.7	118.4	0.87	336.5	0.004	1	1.20	0.001	0.05	0.4	2.7	0.14	<0.02	30	0.5	0.04	3.3	2.09	<0.1	<0.02
1299928	Soil	17.7	21.5	0.49	215.4	0.015	2	0.88	0.006	0.05	0.2	1.6	0.07	<0.02	23	0.2	<0.02	2.4	0.66	<0.1	0.02
REP 1299928	QC	17.7	23.2	0.48	215.0	0.015	<1	0.87	0.006	0.05	0.2	1.6	0.07	<0.02	36	0.7	<0.02	2.3	0.64	<0.1	<0.02
1299945	Soil	13.5	19.0	0.24	205.6	0.018	<1	0.58	0.003	0.07	0.2	2.4	0.09	0.07	79	4.2	0.12	1.6	1.28	<0.1	0.11
REP 1299945	QC	13.8	18.8	0.25	206.3	0.018	<1	0.58	0.003	0.07	0.3	2.3	0.10	0.07	84	3.8	0.07	1.6	1.33	<0.1	0.06

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Project: Rivier  
 Report Date: November 24, 2011

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QUALITY CONTROL REPORT

WHI11001713.1

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	
Pulp Duplicates														
1299708	Soil	0.49	9.7	1.2	<0.05	3.4	9.56	23.5	0.02	<1	0.5	15.3	<10	<2
REP 1299708	QC	0.46	9.0	1.2	<0.05	3.4	9.33	22.9	0.03	<1	0.7	14.8	<10	2
1299724	Soil	0.37	11.6	0.9	<0.05	<0.1	4.18	36.4	0.02	<1	0.6	15.7	<10	<2
REP 1299724	QC	0.39	10.7	0.9	<0.05	0.1	4.25	35.3	<0.02	<1	0.5	15.5	<10	<2
1299745	Soil	0.36	5.8	0.8	<0.05	1.0	3.08	16.2	0.02	2	0.2	7.1	<10	<2
REP 1299745	QC	0.32	5.5	1.1	<0.05	0.9	2.86	15.9	<0.02	<1	0.2	7.0	<10	<2
1299763	Soil	0.44	13.0	1.3	<0.05	0.1	3.37	36.0	<0.02	<1	0.2	12.1	<10	<2
REP 1299763	QC	0.41	13.0	1.3	<0.05	0.2	3.19	33.4	<0.02	<1	0.3	12.4	<10	<2
1299775	Soil	0.28	8.0	0.9	<0.05	<0.1	2.77	22.5	<0.02	<1	0.4	11.6	<10	<2
REP 1299775	QC	0.30	7.9	0.8	<0.05	<0.1	2.71	22.6	<0.02	<1	0.4	11.5	<10	<2
1299792	Soil	0.95	6.6	1.0	<0.05	2.9	9.15	39.3	0.04	<1	0.6	20.5	<10	<2
REP 1299792	QC	1.16	6.8	1.0	<0.05	2.6	9.28	41.3	0.03	<1	0.4	20.5	<10	<2
1299815	Soil	0.26	13.7	0.4	<0.05	<0.1	4.04	38.2	0.02	<1	0.3	13.0	<10	<2
REP 1299815	QC	0.27	14.4	0.3	<0.05	<0.1	4.14	39.5	<0.02	<1	0.3	13.9	<10	<2
1299840	Soil	0.55	8.9	0.5	<0.05	0.7	7.15	42.0	<0.02	<1	0.6	16.0	<10	<2
REP 1299840	QC	0.59	8.9	0.5	<0.05	0.7	7.19	42.1	0.02	<1	0.6	16.5	<10	<2
1299854	Soil	0.63	9.8	0.6	<0.05	0.2	3.02	22.9	<0.02	<1	0.2	13.0	<10	<2
REP 1299854	QC	0.60	9.0	0.5	<0.05	0.3	2.85	21.8	<0.02	1	0.3	13.0	<10	<2
1299860	Soil	0.57	6.9	1.7	<0.05	3.0	8.60	27.6	<0.02	<1	0.4	11.7	<10	<2
REP 1299860	QC	0.54	6.7	1.6	<0.05	2.8	8.34	26.4	0.03	<1	0.5	12.0	<10	<2
1299883	Soil	0.55	12.0	1.6	<0.05	0.2	6.18	36.3	0.02	<1	0.5	19.6	<10	<2
REP 1299883	QC	0.55	12.5	1.4	<0.05	0.2	6.21	36.3	0.03	<1	0.5	19.8	<10	<2
1299897	Soil	0.31	9.9	0.9	<0.05	0.6	5.95	32.8	0.03	<1	0.8	23.3	<10	<2
REP 1299897	QC	0.31	9.1	0.8	<0.05	0.7	5.86	31.6	0.03	<1	0.7	22.4	<10	<2
1299928	Soil	0.36	5.1	0.6	<0.05	0.9	7.17	35.2	<0.02	<1	1.2	14.2	<10	3
REP 1299928	QC	0.39	5.1	0.7	<0.05	0.9	7.29	35.2	<0.02	<1	0.3	14.8	<10	<2
1299945	Soil	0.25	5.7	0.5	<0.05	7.3	9.94	24.4	<0.02	2	0.5	5.2	<10	5
REP 1299945	QC	0.22	5.5	0.4	<0.05	7.5	10.39	24.8	0.04	<1	0.5	5.0	<10	4

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Project: Rivier  
 Report Date: November 24, 2011

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QUALITY CONTROL REPORT

WHI11001713.1

		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
1299958	Soil	1.55	15.62	11.88	106.4	220	29.2	9.6	473	2.21	33.8	0.6	3.6	2.2	36.1	0.44	1.40	0.22	41	0.61	0.099
REP 1299958	QC	1.57	15.87	12.28	108.5	226	30.1	9.9	496	2.23	34.6	0.7	3.7	2.3	37.2	0.47	1.41	0.23	40	0.62	0.097
1299981	Soil	1.48	42.03	41.56	101.0	190	65.0	17.7	677	3.04	50.1	2.2	4.7	3.6	38.0	0.28	1.77	0.31	45	0.57	0.092
REP 1299981	QC	1.46	40.23	41.32	98.1	176	62.3	17.4	662	3.04	48.4	2.2	5.5	3.7	36.0	0.27	1.82	0.33	45	0.55	0.088
Reference Materials																					
STD DS8	Standard	12.63	103.4	117.0	288.6	1706	36.1	7.3	587	2.35	22.9	2.6	107.9	6.3	58.3	2.11	4.99	5.84	39	0.67	0.071
STD DS8	Standard	12.11	101.9	116.7	300.0	1788	36.6	7.0	604	2.40	24.5	2.6	128.3	6.4	64.9	2.27	5.25	6.13	40	0.70	0.082
STD DS8	Standard	12.52	109.1	116.8	284.8	1593	37.4	7.6	534	2.42	24.4	2.6	104.8	6.4	67.2	2.01	5.60	5.51	39	0.69	0.073
STD DS8	Standard	14.24	117.3	125.4	312.7	1814	41.1	7.8	613	2.48	23.7	2.7	121.0	6.9	63.0	2.24	4.98	6.10	43	0.73	0.075
STD DS8	Standard	11.56	102.1	120.3	304.6	1822	36.7	7.0	595	2.48	23.4	2.5	114.5	6.2	59.7	2.15	4.68	6.25	40	0.66	0.080
STD DS8	Standard	13.78	115.9	120.3	309.0	1708	37.7	7.5	612	2.56	24.7	2.7	99.8	6.9	66.8	2.41	5.36	6.81	41	0.69	0.081
STD DS8	Standard	13.39	111.8	124.5	308.4	1727	38.8	7.9	608	2.47	24.3	2.7	106.3	7.0	62.3	2.29	4.77	6.47	42	0.74	0.080
STD DS8	Standard	12.46	108.8	128.8	302.8	1792	35.2	6.9	591	2.36	23.4	2.8	114.1	6.9	64.9	2.37	5.22	6.83	40	0.69	0.079
STD DS8	Standard	12.05	106.1	122.1	301.0	1735	36.1	7.1	553	2.36	24.1	2.5	110.1	5.9	56.4	2.34	4.30	6.54	38	0.60	0.076
STD DS8	Standard	13.19	110.1	127.4	320.5	1750	36.5	7.3	606	2.51	25.3	2.9	105.9	7.2	65.7	2.33	5.26	6.51	41	0.71	0.081
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<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
BLK	Blank	<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
BLK	Blank	<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
BLK	Blank	<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
BLK	Blank	<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
BLK	Blank	<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
BLK	Blank	<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
BLK	Blank	<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
BLK	Blank	<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
BLK	Blank	<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



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Project: Rivier  
 Report Date: November 24, 2011

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QUALITY CONTROL REPORT

WHI11001713.1

		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 Ti 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
1299958	Soil	13.5	44.0	0.58	268.7	0.013	2	1.04	0.008	0.06	0.2	2.0	0.10	0.03	63	0.4	0.05	3.7	0.81	<0.1	0.04
REP 1299958	QC	13.3	45.0	0.58	277.2	0.013	2	1.03	0.008	0.06	0.2	1.9	0.10	0.03	56	0.4	0.04	3.8	0.81	<0.1	0.03
1299981	Soil	32.8	101.6	1.19	309.2	0.007	2	1.68	0.007	0.05	0.2	3.8	0.08	0.06	54	0.6	0.02	5.6	1.98	<0.1	0.12
REP 1299981	QC	31.6	97.0	1.20	302.1	0.007	2	1.69	0.007	0.05	0.2	3.9	0.09	0.05	58	0.6	<0.02	5.6	2.02	<0.1	0.09
Reference Materials																					
STD DS8	Standard	14.2	114.4	0.57	248.4	0.106	3	0.95	0.113	0.43	2.8	2.3	5.14	0.15	193	5.1	4.88	4.6	2.40	<0.1	0.07
STD DS8	Standard	13.6	118.8	0.60	267.5	0.104	3	1.01	0.118	0.44	2.7	2.4	5.15	0.15	186	4.9	4.80	4.6	2.29	0.1	0.07
STD DS8	Standard	14.4	112.2	0.59	268.5	0.112	2	1.00	0.094	0.44	2.9	1.8	5.02	0.15	198	5.2	4.55	4.5	2.28	0.1	0.09
STD DS8	Standard	16.0	124.5	0.62	264.7	0.125	3	0.94	0.091	0.42	3.1	2.4	5.51	0.17	190	4.8	4.97	4.5	2.34	0.1	0.09
STD DS8	Standard	12.9	121.8	0.59	262.9	0.102	3	0.90	0.083	0.40	2.9	2.0	5.44	0.16	188	5.1	5.26	4.6	2.43	<0.1	0.08
STD DS8	Standard	15.9	118.5	0.61	268.2	0.118	3	0.94	0.087	0.41	3.0	2.1	5.14	0.16	194	4.8	4.62	4.5	2.40	<0.1	0.10
STD DS8	Standard	14.7	120.4	0.62	270.4	0.113	2	1.04	0.086	0.46	3.1	2.1	5.42	0.17	178	5.3	5.32	4.8	2.53	<0.1	0.10
STD DS8	Standard	14.3	116.8	0.60	266.5	0.105	3	0.87	0.083	0.40	2.9	2.1	5.38	0.16	222	4.8	4.65	4.4	2.30	0.1	0.09
STD DS8	Standard	11.1	111.6	0.57	258.5	0.101	2	0.83	0.073	0.38	2.4	1.8	5.12	0.15	183	4.7	4.73	4.2	2.16	<0.1	0.05
STD DS8	Standard	15.9	116.4	0.62	273.9	0.110	2	0.95	0.092	0.42	3.1	2.1	5.43	0.15	189	5.2	4.94	4.8	2.46	<0.1	0.08
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	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
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
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
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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Project: Rivier  
 Report Date: November 24, 2011

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QUALITY CONTROL REPORT

WHI11001713.1

		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
1299958	Soil	0.58	8.5	0.7	<0.05	1.1	3.94	25.3	<0.02	<1	0.3	14.2	<10	<2
REP 1299958	QC	0.61	8.5	0.7	<0.05	1.2	3.93	25.1	<0.02	<1	0.3	14.7	<10	<2
1299981	Soil	0.58	10.4	1.7	<0.05	3.6	12.32	60.0	0.02	<1	0.6	23.1	<10	<2
REP 1299981	QC	0.60	10.1	1.8	<0.05	3.5	11.88	59.2	0.03	<1	0.6	22.2	<10	<2
Reference Materials														
STD DS8	Standard	1.39	35.8	6.0	<0.05	1.9	5.71	26.2	2.05	56	4.9	26.3	111	312
STD DS8	Standard	1.33	37.8	6.3	<0.05	1.6	5.69	26.5	2.08	53	5.4	27.6	118	337
STD DS8	Standard	1.26	34.9	6.2	<0.05	1.9	5.42	25.2	1.96	35	6.3	24.3	105	340
STD DS8	Standard	1.43	37.2	6.2	<0.05	2.3	6.16	28.7	2.09	55	5.7	26.3	117	346
STD DS8	Standard	1.29	36.9	6.1	<0.05	1.9	5.58	25.9	2.14	56	5.3	25.1	114	341
STD DS8	Standard	1.35	38.2	6.9	<0.05	2.1	5.95	26.8	2.32	58	5.2	26.6	107	323
STD DS8	Standard	1.38	40.0	6.2	<0.05	2.0	5.93	27.6	2.13	53	5.3	26.4	96	330
STD DS8	Standard	1.27	37.5	6.9	<0.05	1.9	5.61	25.9	2.12	55	4.9	26.7	111	342
STD DS8	Standard	0.91	35.9	6.4	<0.05	1.3	5.49	25.0	2.17	49	4.8	27.4	111	348
STD DS8	Standard	1.39	38.1	6.7	<0.05	2.3	6.26	29.0	2.17	53	5.2	27.6	101	333
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
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
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
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
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