ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: PROSPECTING AND GEOCHEMICAL ASSESSMENT REPORT ON THE SADIM PROPERTY

BC Geological Survey
Assessment Report
38804

TOTAL COST: $11654.140

AUTHOR(S): Leopold J. Lindinger, P.Geo.

SIGNATURE(S): *Leopold J. Lindinger.*

STATEMENT OF WORK EVENT NUMBER(S)/DATE (S): 5760263/October 23, 2019

YEAR OF WORK: **2019**

PROPERTY NAME: **SADIM**

CLAIM NAME(S) (on which work was done):

COMMODITIES SOUGHT: **GOLD, SILVER, COPPER**

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: **092HNE095, 092HNE049, 092HNE054, 092HNE241, 092HNE106, 092HNE119, 092HNE242, 092HNE156, 092HNE113, 092HNE159, 092HNE229, 092HNE230.**

MINING DIVISION: SIMILKAMEEN

NTS / BCGS: NTS 092H09W, BCGS 092H068
LATITUDE:49°42'57" LONGITUDE: 120°31'01" (at centre of work)
UTM Zone: 10U EASTING: 679000 E, NORTHING: 5510000

OWNER(S): **RICHARD J. BILLINGSLEY**

MAILING ADDRESS: **11114 147A ST. SURREY, BC, CANADA, V3R 3W2**

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. *Late Triassic aged Nicola Group volcanics and sediments are intruded and altered by interpretedly coeval and Jurassic dioritic to granodioritic intrusives that host stockwork and disseminated pyritic with minor chalcopyrite or molybdenum mineralization in possible porphyry cupola environments. Cretaceous aged tectonic intrusive and volcanic activity is interpreted to be responsible for mesothermal northwest striking east dipping shear associated and 2nd and 3rd order fault hosted gold-silver quartz-carbonate veins systems.*

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 4227, 9407, 14314, 14044, 15007, 15969, 16206, 16889, 23775, 26421, 26944, 35886, 36317, 37347, 37426, 37685.

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOCHEMICAL (number of samples analysed for …)			
Soil	1.5 km	1067868, 1967869	3721
Silt			
Rock			
Vegetation – Douglas fir bark	1.5 km	1067868, 1967869	5000
RELATED TECHNICAL			
Sampling / Assaying		1067868, 1967869	2433.14
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)	1:1000-50 hectares	1067868, 1967869	500
		TOTAL COST	11654.14

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PROSPECTING AND GEOCHEMICAL ASSESSMENT REPORT

on the

SADIM Property

Similkameen Mining Division

Missezula Lake Area

N.T.S. 092H/10

Work Centered at
Latitude 49^0 42' 57" N Longitude 120^0 31' 01" W
UTM Zone 10U 679000 E 5510000 N

For

Richard J. Billingsley
Owner and Client

11114 147a St. Surrey, BC,
Canada, V3R 3W2

by

Leopold J. Lindinger, P.Geo.

December 31, 2019

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SUMMARY

This report documents for assessment purposes the results of a 2019 prospecting and, geochemical sampling exploration program on the 4033.5 hectare SADIM property, Similkameen Mining Division, NTS map sheets 092H10. The report supports Statement of Work and Reclamation Event No 5760263 dated October 23, 2019

The author was responsible for the 2019 program that is reported herein and is solely responsible for the interpretations made, conclusions reached and recommendations made.

The SADIM property straddles the north striking Summers Creek canyon and extends to the plateaus on both sides. The property is centered about 28 kilometres NNW of Princeton B.C. Access to the east side is via the Jura Resource Road to kilometre 14 and numerous active and dormant logging and exploration roads originating westerly from it. The Jura RR originates south from Princeton and extends north to a quadruple junction the access highways west, north and east. Access to the west side is from the north via the Dillard-Ketchan logging road system. Accommodation, food and supplies for most exploration needs can be obtained from Princeton and Merritt.

The property lies in the semi arid intermontane climatic zone. Rainfall is less than 70 cm per year, and temperatures range from 25 to +30 degrees centigrade. The dominant resource activities are logging, mining, mineral exploration, tourism and cattle ranching. Several small industrial mineral deposits occur in the region. Kamloops, 130 km north is the nearest city where exploration and mining supplies can be obtained. Water for exploration purposes is available from several small streams and springs.

The area has an extensive and ongoing exploration and mining history since the late 1800's discovery and development of the Copper Mountain copper-gold-silver deposits near Princeton. Subsequent exploration has resulted in the discovery of over 25 significant copper prospects within 50 kilometres of the SADIM property. Recent exploration has also been directed towards high grade gold vein systems associated with the Spence's bridge rocks of which the SADIM prospect can be considered a probable example. Dozens of junior and many senior exploration and mining companies have explored and continue to explore the area. Many millions of exploration and development dollars are spent every year.

Richard Billingsley acquired the SADIM property by purchasing from Chris Dyakowski and others or by MTO staking several times between late 2005 and 2018.

The area lies within the Intermontane Belt or Super Terrane portion of the western north American Orogen. The lithologies within this terrane are almost entirely comprised of imbricated and deformed portions of accreted late Paleozoic to mid Mesozoic island arc and oceanic assemblages. These include the Harper Ranch, Slocan and Nicola-Stikine rocks of island arc affinity and the Slide Mountain, and Fennel formations of oceanic affinity. The Harper Ranch, Nicola-Stikine and possibly Fennel Formations have coeval intrusives.

Intruding and overlying the accretionary lithologies are late Mesozoic to Miocene sedimentary and volcanic deposits. These include the Cretaceous Spences Bridge Group, Eocene Kamloops Group, Miocene Chilcotin Group and Quaternary to recent volcanics and coeval intrusives.

Pre and post glaciation surficial deposits of variable thickness blanket the region.

A wide variety of dominantly epigenetic and less commonly syngenetic hydrothermally related mineral deposits are found within the region. These include pre and post accretionary porphyry copper-molybdenum+/-gold+/-silver+/-zinc, mesothermal and epithermal gold-silver, porphyry related tungsten, chromite deposits. The syngenetic deposits are primarily pre accretionary and include besshi copper-zinc-silver-gold and Kuroko copper-zinc-lead silver-gold deposits. Placer gold deposits are mostly located along the eastern edge of the terrain adjacent to orogenic gold camps hosted by deformed north American provenance lithologies. Pre and post accretionary industrial mineral deposits include limestone, bentonite, zeolite, diatomaceous earth, post glacial gravel and sand.

The local geology is dominated by early Mesozoic Nicola Group rocks. These are intruded by coeval and later mid Jurassic batholiths and overlain and structurally juxtaposed by early Cretaceous Spences Bridge Group sediments, volcanics and intrusives followed by Eocene Kamloops Group sediments and subareal volcanics. The area is covered by extensive till sheets and post glacial outwash gravel, sand and lake terrace deposits. The pre mid Tertiary rocks are occasionally associated with coeval and post accretionary, porphyry copper-gold-silver, porphyry molybdenum, meso to epithermal gold-silver-copper, zeolite and bentonite deposits.

The property is underlain from west to east Nicola Group sediments and mafic to intermediate volcanics and coeval intrusives, mid Jurassic Osprey Lake intrusives and early Cretaceous 'Summers Creek' intrusives. Most metallic mineralization is associated with relatively undeformed intrusives interpreted to be related to higher level porphyry activity. These include the nearby PRIME-MAN, RUM-COKE, DILLARD copper-gold deposits. The SADIM Minfile occurrence is interpreted to be associated with either Cretaceous tectonic (Spences Bridge?) intrusive or early Tertiary (Otter intrusive) activity.

The 2019 exploration program was limited to prospecting and limited soil and Douglas fir bark sampling south of the SADIM gold zone and to the east, the northern GOLDEN area. From 12 samples sites a total of 22 soil and 24 bark samples were taken. All were sent for analyses to ALS Global Laboratories in Vancouver, B.C.. 11 soil samples were prepped and analyzed by conventional strong acid digestion followed by multielement ICP analyses. A second set of soil samples were prepped and analyzed using a proprietary weak "ionic leach" digestion to determine the quantities of ionically transported metal ions. The first set of Douglas fir back samples were macerated and an approximate 50 gram subsample was ashed at 475 degrees and the approximate 0.25 gram subsample analyzed by a vegetation digestion package. The second set was macerated and milled and a 5 gm subsample was digested and analyzed using the 'ionic leach' procedure. A brief prospecting examination of the east SADIM area revealed variably altered highly deformed Nicola Group sediments and associated intermediate fragmental and flow volcanics. Some of the alteration appears to be a weaker but similar style as seen at the SADIM gold zone.

The soil samples digested with the strong acid digestion failed to produce any anomalous values, however each line had at least one relatively elevated base metal element. The soil samples prepped and digested with the ionic leach procedure produced a much wider range of all elements compared to the other soil results. The Douglas fir bark ashed results produced weak anomalies somewhat similar to but often bracketing the ionic leach soil results. The ionic leach bark results produced slightly enhanced copper and zinc anomalies over the other sample-analytical procedures. The bark results also indicate preferential concentration of copper, zinc and lead over iron and many other elements including rare earths relative to the soil results.
Some element anomalies formed apical anomalies near structures and south of the SADIM gold zone. Other elements appeared to produce bracketing anomalies. Silver and copper appeared to form apical patterns relative to known mineralized trends and lead, iron and rare earth elements bracketing ones.

A $40,000 surficial largely geochemical exploration program is recommended. In addition to more thorough prospecting of the SADIM Property are soil and Douglas fir bark sampling surveys east and west of the SADIM deposit. Both the soil and vegetation sample spacing is planned to be tighter than the prospective 2019 samples.

Additional exploration expenditures are contingent on exploration success and ability to raise project financing for the drill ready SADIM target.

INTRODUCTION AND TERMS OF REFERENCE

This report documents the work and discusses the results of a prospecting and soil and Douglas fir bark sampling geochemical program on the SADIM property between October 9 and Oct 12, 2019. The program conceived, implemented, conclusions generated , and recommendations made for future exploration expenditures documented in this report are solely those of Leopold J. Lindinger, P.Geo..

The SADIM property in its current configuration protects the SADIM (Minfile 092HNE095), GOLDEN 2 (Minfile 092HNE049), GOLDEN 1 (Minfile 092HNE054), GOLDEN 3 (Minfile 092HNE241), (Minfile BO 092HNE106), EJ (Minfile 092HNE119), MS-4 (Minfile 092HNE242), MS (Minfile 092HNE156), (Minfile FAN 092HNE113), LAIRD LAKE (Minfile 092HNE159), ANITA 14 (Minfile 092HNE229), ANITA (Minfile 16 092HNE230) Occurrences.

PROPERTY DESCRIPTION AND LOCATION

The SADIM Property lies within SW British Columbia, 28 kilometres bearing 355^{O} from Princeton, B.C., within the Similkameen Mining Division (Figure 1). The centre of the property is located within NTS Map Sheet 092H at 49^{0} 42' 25" N and 120^{0} 31' 30" W or UTM Grid Zone 10U 678500 E 5508800 N.

The property consists of 6 MTO claims totaling 4033.5 hectares (Figure 2, Table 1). Table 1 presents the detailed claim information. The claims are currently 100% owned by Richard J. Billingsley (FMC 1395758). No legal surveys related to mining have been completed on the property.

The SADIM property is not subject to any known environmental liabilities. The surface rights are owned by the Crown except for some lots in the Summers Creek valley.

The current claims cover the SADIM (Minfile 092HNE095), GOLDEN 2 (Minfile 092HNE049), GOLDEN 1 (Minfile 092HNE054), GOLDEN 3 (Minfile 092HNE241), (Minfile BO 092HNE106), EJ (Minfile 092HNE119), MS-4 (Minfile 092HNE242), MS (Minfile 092HNE156), (Minfile FAN 092HNE113), LAIRD LAKE (Minfile 092HNE159), ANITA 14 (Minfile 092HNE229), ANITA (Minfile 16 092HNE230) occurrences and showings (Figure 2, 5 and 6). There are no known mineral resources, mineral reserves or mine workings on the property.

The work program discussed in this report has been filed with the Ministry of Energy, Mines and Petroleum Resources under Statement of Work Event number 5760263, dated October 23, 2019.

Title Number	Claim Name	Owner	Issue Date	Good To Date	Area (ha)
1067866	Fan	Billingsley (100%	2019/APR/12	2020/JUN/12*	1087.6747
1067867	Anita	Billingsley (100%	2019/APR/12	2020/JUN/12*	418.0033
1067868	SADIM	Billingsley (100%	2019/APR/12	2020/JUN/12*	751.8893
1067869	GOLDEN	Billingsley (100%	2019/APR/12	2020/JUN/12*	1462.5878
1070581	GOLDEN 1 092H.078	Billingsley (100%	2019/AUG/23	2020/AUG/23	250.6513
1072194	HIT-KEY 092H.068	Billingsley (100%	2019/OCT/29	2020/NOV/01	62.7244
				TOTAL HECT.	4033.5308

TABLE 1 – SADIM Mineral Claims

* upon acceptance for assessment credit of the work documented in this report under Statement of Work Event number 5760263.

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

Numerous logging roads in various states of accessibility surround and cross through the property. Access to the east side is via the Jura Resource Road to kilometre 14 and numerous active and dormant logging and exploration roads originating westerly from it. The Jura RR originates south from Princeton and extends north to a quadruple junction the access highways west, north and east. Access to the west side is from the north via the Dillard-Ketchan-Shrimkin logging road system.

Basic accommodation, food, and fuel are available in both Princeton and Merritt. There are several guest ranches that can provide closer accommodation. Basic supplies can be obtained from Princeton 28 kilometres south the property. The City of Merritt, located about 60 road kilometres is the main centre of service and supply for the region. Logging is the primary resource activity in the region with mining a close second. Ranching and tourism are also important economic activities. Numerous equipment contractors are available on relatively short notice.

A high tension power line strikes through the property. Timber, gravel and industrial stone deposits are available for mine development. Sufficient water and room for potential waste disposal, tailings storage, and processing plant sites all exist in the general project area.

The climate is subcontinental. Snowfall can exceed 1.5 metres at higher elevations, and rain showers are common in the summer and fall. Annual wet precipitation averages 70 cm. Temperatures range from –25^{o}C in winter to +30^{o}C in summer. Most surface mineral exploration can be conducted between mid May and mid October. Geophysical exploration, drilling and mining can take place year round.

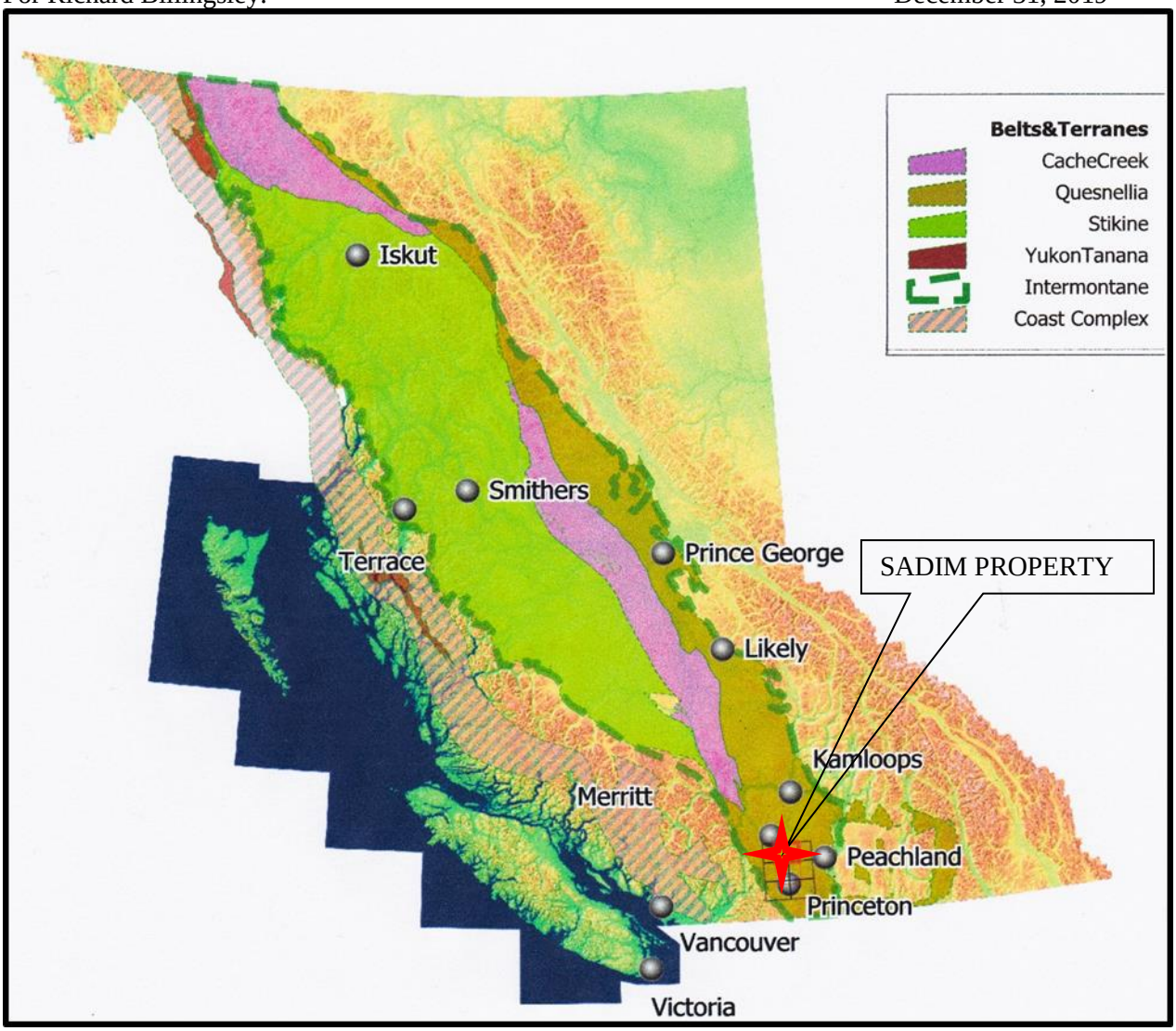

FIGURE 1 - PROPERTY LOCATION MAP

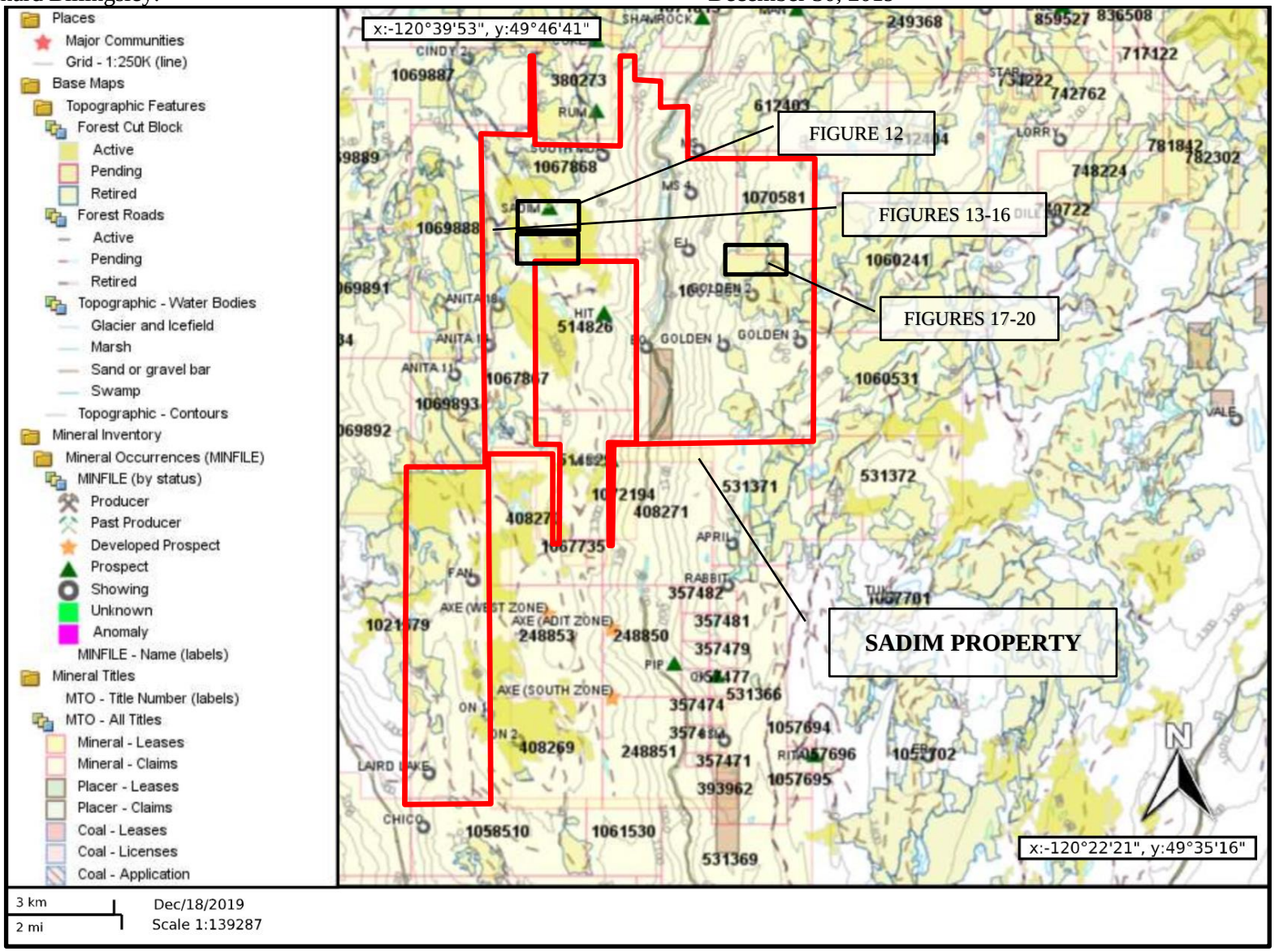

FIGURE 2 – MINERAL TENURE, TOPOGRAPHY, ROADS, CLEARCUTS and INDEX MAP (Source Maplace 2)

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HISTORY

The area has an extensive and ongoing exploration and mining history since the discovery and development of the Copper Mountain copper-gold-silver deposits near Princeton, in the late 1800's. Subsequent exploration has resulted in the discovery of over 25 significant copper prospects within 50 kilometres of the SADIM property. In the area many millions of exploration and development dollars are spent every year. Recent exploration has also been directed towards high grade gold vein systems associated with the Spence's bridge rocks of which the SADIM prospect can be considered a probable example. Dozens of junior and many senior exploration and mining companies have explored and continue to explore the area.

The earliest exploratory work in the local area dates back to the 1930's and appeared to focus primarily on volcanic hosted red bed copper mineralization occurring in several small showings in and around the current property boundaries. High grade shear hosted copper mineralization on the Axe prospect south of the Property was also targeted and explored (Preto, 1979).

The following description of the current property's history is partitioned into separate sections based on key Minfile occurrences and/or target areas within and adjacent to the current claim situation at the time of the statement of work filing this report documents.

Sadim

The SADIM prospect (Minfile No 092HNE095) is currently the most important gold-silver target of the current mineral property. It occurs in the north central part of the current property.

In 1985, I.M. Watson supervised field crews while completing follow-up examinations of gold-silver in soil anomalies completed earlier that year discovered gold bearing veins south of the Rum and Coke prospects and discovered the SADIM mineral occurrence. The discovery was aided by completion of a new main line logging road immediately west of the discovery. Watson subsequently transferred the claims to Laramide Resources. Between 1985 and 1987, Laramide conducted a major exploration program at SADIM with soil and rock sampling, VLF electromagnetic survey, 42 m of trenching, and 15 diamond drill holes. Laramide's three year exploration program determined that the gold bearing zones were bounded over an eastward dipping shear zone (Watson, 1988).

Between 1994 and 1995, Harlow Ventures optioned the Sadim claims and conducted another major exploration program consisting of additional ground magnetic and VLF electromagnetic surveys to the north and south of the Laramide surveys, excavated three additional trenches, and drilled 12 diamond drill holes (729 m).

In 2000, Toby Ventures purchased the Sadim Claims from Harlow Ventures. In 2002, Toby Ventures drilled 9 diamond drill holes (862.3 m) targeting the Sadim gold-quartz area. In 2005, Chris Dyakowski purchased the Sadim claims (Ostler, 2002).

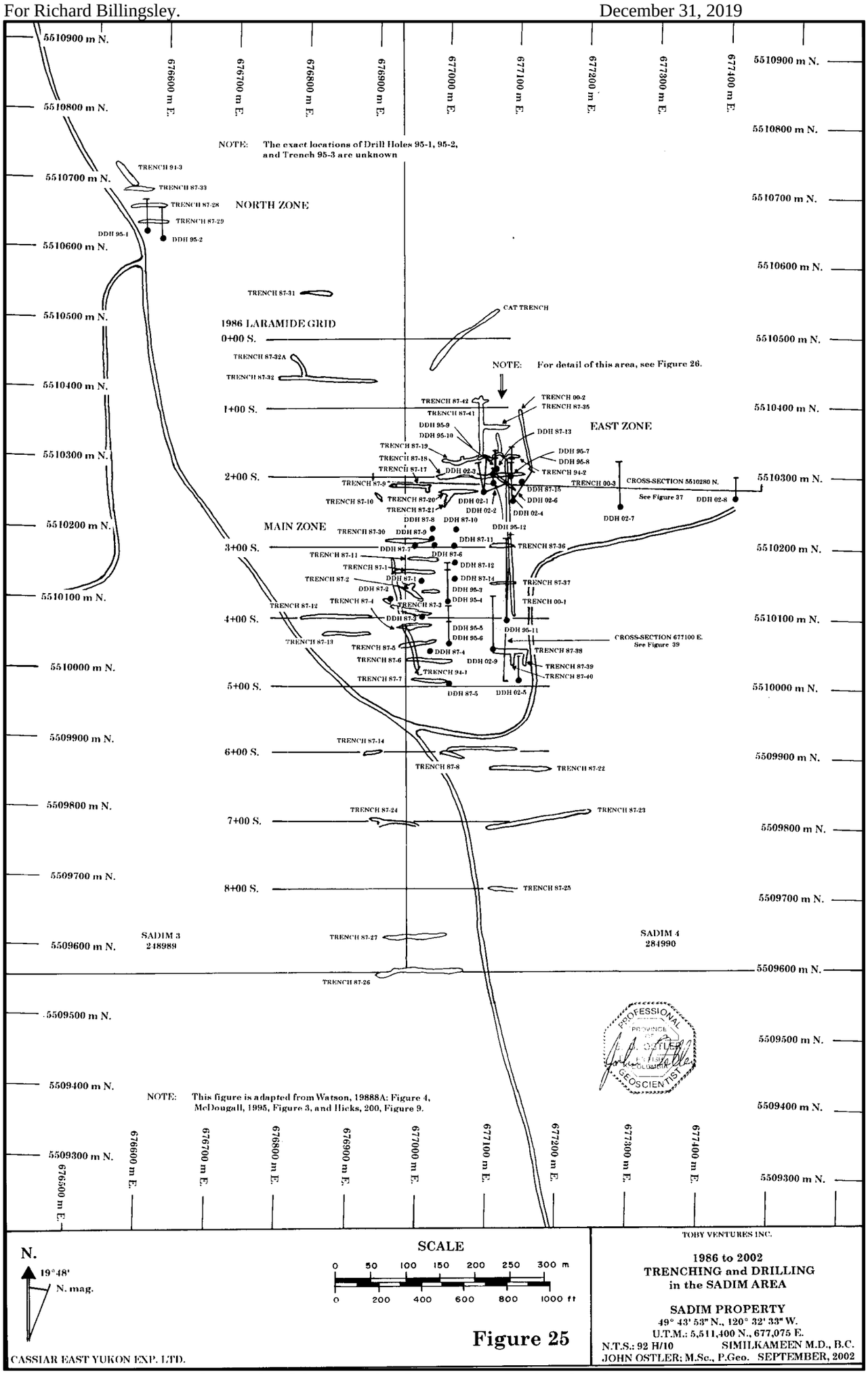


FIGURE 3 – SADIM TARGET EXPLORATION SUMMARY
Source, Ostler 2002

In 2009, the Sadim would become part of the Allison Lake Property optioned under Orofino Minerals. In 2010, Orofino conducted a detailed exploration program, the Allison Grid, on the Sadim, Rum and Coke areas.

In early 2014, Colorado Resources purchased the Sadim claims from Chris Dyakowski and incorporated the claims into Colorado's Hit-Aspen Grove Property. Exploration efforts including IP chargeability and resistivity indicated that the SADIM target occupies the western edge of a coincident east dipping geophysical feature that at depth has not been tested. See Figure 4 below.

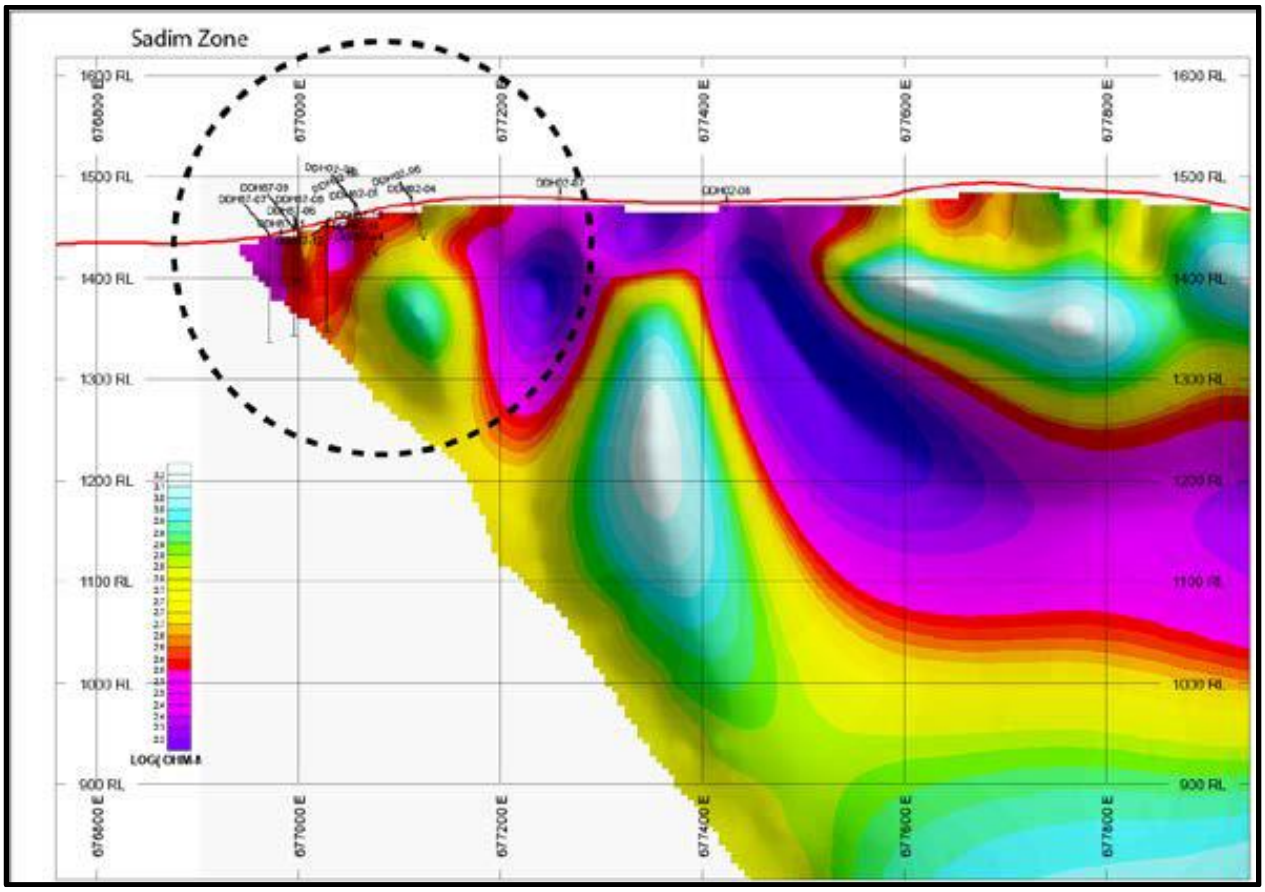


FIGURE 4 - SADIM ZONE - LINE 10200N - MODELLED DC RESISTIVITY SECTION WITH HISTORIC DRILLING –
Source Walcott 2018

In late 2018 Colorado returned the Sadim and other parts of the Hit-Aspen Grove Property to Richard J. Billingsley. They as of this report still retain the RUM-COKE and HIT-MISS properties.

Golden

In 1972, Vargas Mines Limited staked the EJ claims over the now EJ and Golden mineral occurrences and conducted a ground magnetic survey. Then in 1981 Lornex Mining purchased

the Golden claim over the Golden mineral occurrences. Lornex completed a ground magnetometer survey, geologic mapping, and soil grid sampling. The soil sampling detected anomalous copper values (Christopher, 1984, 1985).

The Vale area was not thoroughly explored until the 1990's when Kingsvale Resources staked the Vale claims. In 1991, Kingsvale soil grid and rock sampled the claims. One high anomalous gold soil sample discovered the Vale mineral occurrence (Rowe, 1991). The Vale claims would subsequently be allowed to lapse.

In 2009, the Golden mineral occurrences would become part of the Orofino optioned Allison Lake Property (Allen, 2010).

In late 2011, Colorado Resources purchased the Allison Lake Property and staked the Vale claims as part of Colorado's Hit-Aspen Grove Property. In 2012, Colorado conducted a road cut soil sampling program at the Golden mineral occurrence finding high anomalous copper results and completed an 18.4 line km geophysical I.P. survey in 2012. In 2015, Colorado conducted more soil sampling at Golden along newly constructed forestry service roads (Travis and Jacobs, 2016). Colorado allowed the four Vale claims to lapse in 2017.

Adjacent Mineral Property History

Rum-Coke

The RUM-COKE area lies immediately NNE of the SADIM target. This area has in the past often been part of the SADIM property or vice versa.

In 1962, anomalous copper results in andesite outcrops lead to the discovery of the Rum and Coke mineral occurrences and the staking of claims in the area by Plateau Minerals. Throughout the 1960's, Plateau and Adera Mining conducted exploration activities including bulldozer trenches and 4 diamond drill holes (357.6 m). Adera allowed the claims to lapse in the late 1960's (Lammle, 1966)

In the early 1970's, AMAX staked the Rum claims and conducted exploration work including a 9 hole (572.7 m) percussion drill program. However, AMAX's interest in the Property declined (Christoffersen et al, 1971). Kalco Valley Mines consequently continued exploration activities at the Rum claims conducting a short 4 diamond drill program and some trench sampling. In 1976, Ruskin Development acquired the Rum claims and conducted an extensive soil geochemical survey over the property but let the claims lapse in the late 1970's (Mark, 1976).

In 1980, Cominco acquired the Rum claims around the Rum and Coke mineral occurrences and conducted a magnetic survey but allowed the claims to lapse a year later (Mehner, 1987).

In 1984, Peter Peto staked the Coke claims covering the Rum and Coke mineral occurrence and rock sampled in some old trenches and also conducted a small magnetic survey in 1986. In 1987 Mingold Resources optioned the Coke Claims and conducted a soil survey over the Coke showing (Yarrow, 1987). The claims were allowed to lapse soon after.

In 1994, Harlow Ventures staked the Rum claims over the Rum and Coke mineral occurrences as part as their option of the Sadim claims to the south.

Hit-Miss

In 1990, the Hit mineral occurrence was discovered when logging activity exposed gold bearing quartz vein float. That same year, Vanco Explorations acquired the Hit Property. In 1990 and 1991, Vanco conducted an extensive exploration program consisting of rock sampling, soil sampling, geological mapping, trenching, and 2 short diamond drill holes (185.93 m).

The claims lapsed in 2001.

In 2001, Cazador Resources Ltd staked the Hit claim around the Hit mineral occurrence.

In 2002, Cassidy Gold optioned the Hit Claim from Cazador and staked claims to the south covering the Miss mineral occurrence. However, Cassidy Gold was unable to raise funds and returned the property.

In 2006, the HIT-MISS property was optioned to Amaryllis Ventures, which became Avanti Mining. Avanti Mining conducted a soil grid sampling and geophysical I.P. survey on the Hit claims. The surveys confirmed results from two lines that the Hit Zone was underlain by a moderate chargeability response and a fairly strong resistivity low. This anomalous feature continues to the south for a short distance and to the north-northwest through the west side of the Hit North zone towards the Sadim gold zone. Several other sub parallel zones labelled from east to west were also identified (Lindinger, 2008). Avanti returned the claims in early 2009.

In late 2009 and 2010, Colorado optioned and then purchased the Hit claims from Cazador Resources. Colorado continued the induced polarization (I.P.) survey over the Hit mineral occurrence and to the 'North Hit' area. In 2011, Colorado conducted a trenching program that exposed a 120 by 25 m portion of the main Hit zone, that was channel sampled across its entire width. In total, 736 channel samples were collected. A 26 m section in the southern part of the exposed system was dominated by well mineralized multi-episodic quartz veins that averaged 5.58 g/t Au and 56.8 g/t Ag over an average horizontal width of 1.4 m (Lindinger, 2012).

More recent exploration on the property resulted in the discovery of high grade gold mineralization near the MISS target (Yeomans, 2018). He reports "*A high-grade epithermal vein was sampled in outcrop at the Minfile occurrence named "Miss" which reported up to 9,960 ppb Au with anomalous arsenic, lead, zinc and mercury in highly altered quartz sericite quartz porphyry intrusive.".*. Additional exploration elsewhere failed to generate any new copper of gold targets.

GEOLOGICAL SETTING

Regional Geology

The RITA gold-silver-copper-zinc occurrences are located within the Intermontane Belt or Super Terrane portion of the western north American Orogen. The lithologies within this Terrane are almost entirely comprised of imbricated and deformed portions of accreted late Paleozoic to mid Mesozoic island arc and oceanic assemblages. In the region surrounding the SADIM property the rock packages include the Harper Ranch, Slocan and Nicola-Stikine rocks of island arc affinity and the Slide Mountain, and Fennel formations of oceanic affinity. Recent interpretations have these rocks overlying ancestral north American basement due to eastward directed compressive activity.

The Harper Ranch, Nicola-Stikine and possibly Fennel Formations have coeval intrusives.

Intruding and overlying the accretionary lithologies are late Mesozoic to Miocene sedimentary and volcanic deposits. These include the Cretaceous Spences Bridge Group, Eocene Kamloops Group, Miocene Chilcotin Group and Quaternary to Recent volcanics.

Pre and post glaciation surficial deposits of variable thickness blanket the region

A wide variety of dominantly epigenetic and less commonly syngenetic hydrothermally related mineral deposits are found within the region. These include pre and post accretionary porphyry copper-molybdenum+/-gold+/-silver+/-zinc, orogenic gold, mesothermal and epithermal gold-silver, porphyry related tungsten, chromite deposits. Pre and post accretionary industrial mineral deposits include limestone, bentonite, diatomaceous earth, post glacial gravel and sand.

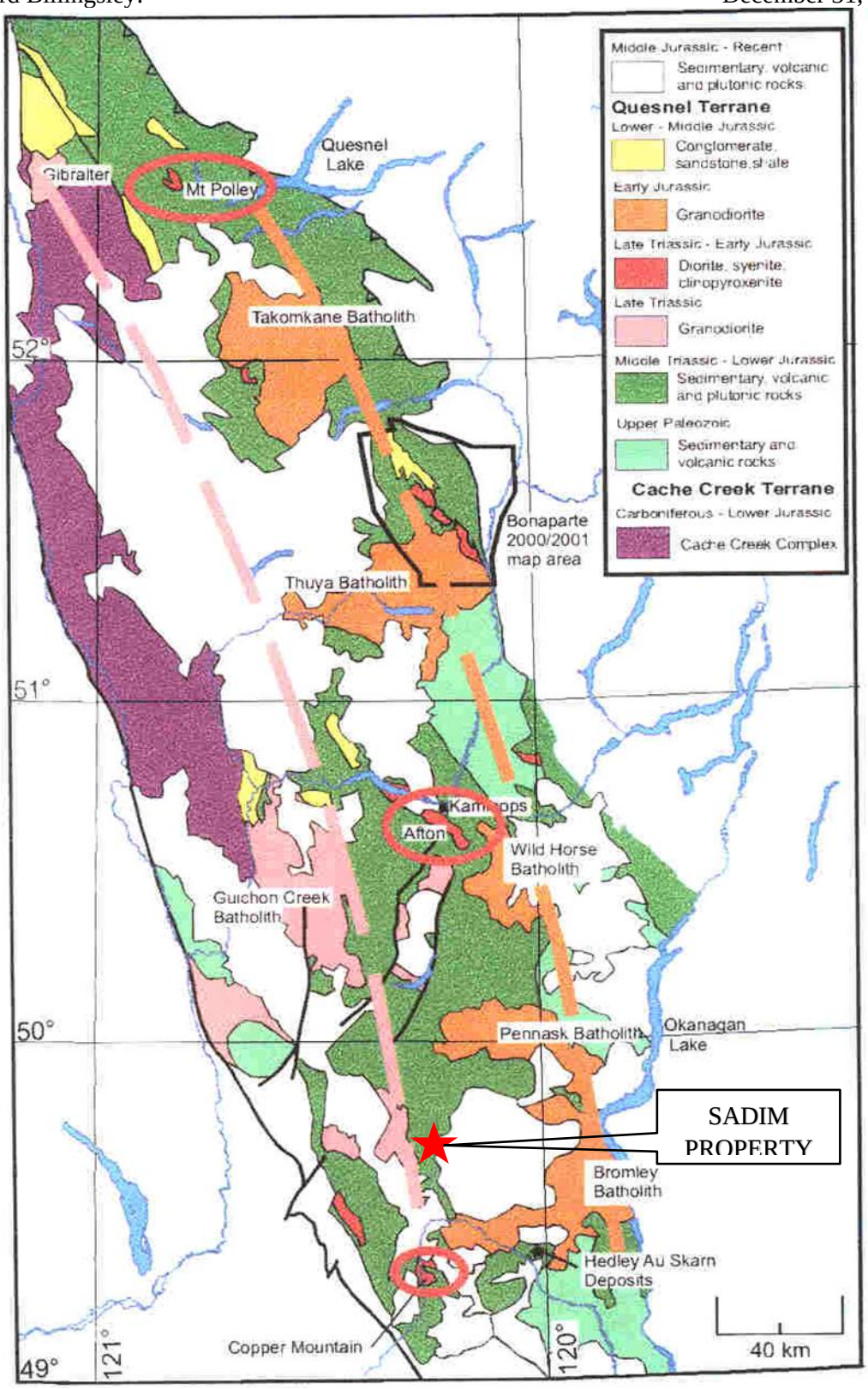


FIGURE 5 – REGIONAL GEOLOGY (Source Logan, et. al. 2006.)

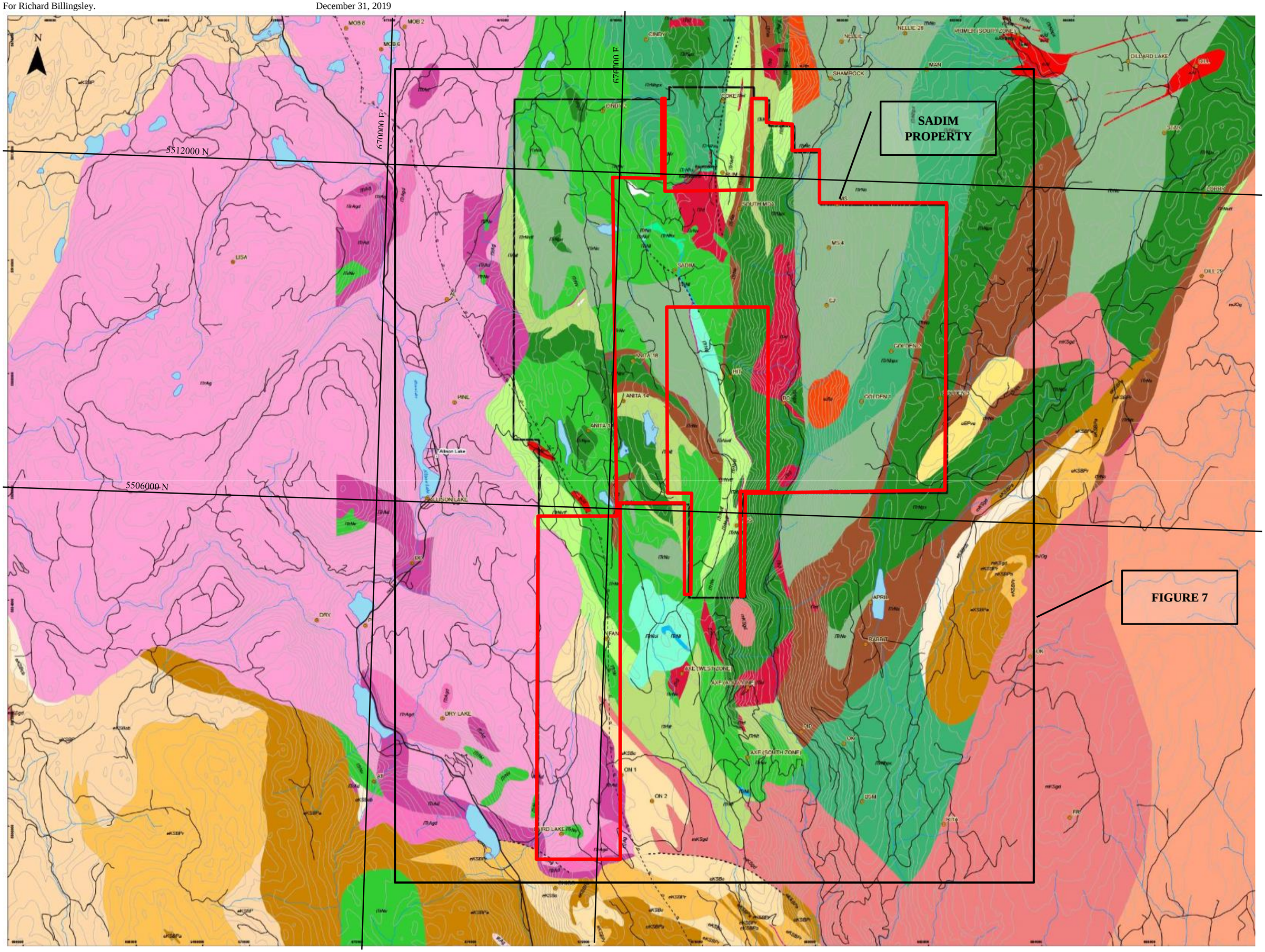


FIGURE 6 – LOCAL GEOLOGY (Source Mihalynuk 2004

BC Geological Survey

BCGS Open File 2014-5

Summers Creek Area Preliminary Geology

NTS 92H/9W & 10E
(and parts of adjacent sheets north and south)

Mitchell G. Mihalynuk, James M. Logan,
Larry J. Diakow, Martha A. Henderson,
Johannes Jacob and Andrew K.G. Watson

Scale 1:50 000

FIGURE 6A - LEGEND FOR FIGURES 6 and 7

LEGEND

LAYERED ROCKS

MIOCENE

Chilcotin Group

MiCv — Alkali olivine basalt flows and rare interflow breccia. Dark brown to tan-weathering and black fresh. K-Ar ages of 9 and 9.2 ±1.8Ma were obtained near Coalmont (Mathews, 1989; Breitsprecher and Mortensen, 2004 -location adjusted on map).

EARLY EOCENE

Princeton Group

'Upper Volcanic' Formation

eEPvu — Volcanic member, upper. Near Dillard Lake this unit includes oxy-hornblende, biotite, sanidine, and plagioclase -phyric rhyolite flows, breccias and flow domes (50.2 ± 0.6 Ma, 40-39Ar, Mihalynuk et al., 2014).

Allenby Formation

eEPSs — Summer Creek sandstone (<300 - 590m thick). White to orange, massive to well-bedded, tuffaceous, zeolitic sandstone and granule conglomerate (in places largely sourced from the Osprey Lake batholith) with minor siltstone, shale and sparse layers of coalified plant detritus.

eEPCc — China conglomerate (up to 130m thick). Marker in eEPVsh, is tan to brown, volcanic and quartz-pebble and granule conglomerate, volcanic sharpstone conglomerate (derived from Nicola Gp. and Pimanus Fm.), and coarse wacke.

eEPVsh — Vermillion Bluffs shale (90-1000m thick). Grey to black, locally maroon, carbonaceous to bentonitic shale enclosing coal and minor thin sandstone layers. May locally include siliceous sinter, diatomaceous, and dolomitic beds.

eEPHs — Hardwicke sandstone (up to 400m thick). White quartzo-feldspathic sandstone with minor siltstone and rare shale interlayers. Green-brown lithic sandstone near basal boulder conglomerate.

Cedar Formation

eEPCv — Mainly red-brown andesitic to basaltic flows, breccia and lahar; locally light-weathering, aphanitic to sparsely hornblende and feldspar-phyric dacite flow and breccia.

eEPCvf — Andesitic - basaltic volcanic rocks; predominantly flows.

EARLY CRETACEOUS (TO EARLIEST LATE CRETACEOUS)

Spences Bridge Group

Pimanus Formation

eKSBP — Pimanus Formation undivided or admixed andesite, rhyolite flow, and tuff (units eKSBPa, r, and rt).

eKSBPr — Rhyolite flows. White to orange, finely banded, massive to brecciated flows up to tens of metres thick, may include areas of intensely welded ash flow.

eKSBPrt — Rhyolite lapilli tuff. Includes relatively minor welded ash flow. Sparse green and white lapilli in a plagioclase crystal-rich vitric ash matrix with scattered quartz eyes. Ignimbritic subunits in a few localities.

eKSBPa — Andesite breccia and lesser flows. Dark grey-green, medium- to fine-grained plagioclase ±pyroxene-phyric. Locally vesicular and may contain epiclastic interbeds.

eKSBc — Intraformational conglomerate, massive to well bedded, including maroon and green ash and lesser lapilli tuff and tuffite, including choloritized, flattened pummice lapilli. Detrital zircon age populations reflect the enclosing rocks (~103 Ma) and nearby basement (Mihalynuk et al., 2014).

eKSBcb — Basal conglomerate rests atop pre-Cretaceous lithologies from which it is predominantly derived. Includes a tuffaceous component of Pimanus Formation character.

LATE TRIASSIC TO EARLY JURASSIC NICOLA GROUP

Nicola Group

lTrNv — Undivided, where mapped predominantly feldspar porphyritic breccia and minor flows. Pyroxene ± hornblende may be present in subordinate abundances, heterolithic. Significant carbonate in matrix and as late veins.

lTrNhpx — Pyroxene and hornblende porphyry breccia. Coarse, euhedral mafic crystals are crowded within a tan to green-weathering matrix. An apparently undisturbed 40Ar-39Ar cooling age on hornblende of 182 ±1 Ma (Mihalynuk et al., 2014) suggests that at least some of this unit extends to late Early Jurassic.

lTrNhx — Hornblende porphyry breccia and flows. Coarse-grained, acicular ±trachytic, with subequal abundances of plagioclase. Interlayered with subaqueous deposits, overlying deposits may contain clasts of this unit.

lTrNc — Conglomerate. Very coarse, olistostromal, metres in diameter to granule-sized clasts, are locally derived from the Nicola arc. Commonly with calcareous volcanic sand and silt matrix. Monomict to polymictic, carbonate clasts are generally minor but conspicuous.

lTrNcl — Conglomerate as lTrNc, but with abundant, locally predominant, clasts of limestone. Near Mystery Lake also contains clasts of picrite.

lTrNl — Undivided limestone, typically massive, with poorly preserved fossils including bivalves, crinoids, encrusting corals, and rare belemnoids. Grey-, tan- or white-weathering, commonly with weak to strong S ±L tectonite fabric.

lTrNpx — Pyroxene poryhyry breccia and flows. Medium- to coarse-grained, euhedral pyroxene are commonly crowded within a grey-green felted to aphanitic/devitrified matrix (rarely ochre-coloured as near Miner Mtn.) Flows may be amygdaloidal. Plagioclase glomerocrysts are common, and may contain olivine, and rarely, analcime.

lTrNs — Undivided sedimentary rocks. Mainly volcanic siltstone and wacke and shale and subordinate beds of lTrNc. Tan to dark green or black. Shale may weather rusty.

lTrNt — Tuffite. Well-bedded to massive, predominantly reworked fine lapilli and lithic or crystal ash tuff subunit of lTrNs. May include air-fall pyroclastic units of similar character.

lTrNvtf — Felsic tuffite. White to dark green, well-bedded to massive and varying from sharpstone lapilli tuffite to waterlain ash tuff to felsic boulder conglomerate. Sparse interbeds of polymictic conglomerate. Commonly foliated and may be altered to quartz-sericite phyllite.

MIDDLE TRIASSIC

TrNvf — Rhyolite flow and tuff. Massive, pyritic, white to rusty flows, lapilli tuff and olistostromal epiclastic strata, includes sericite schist near Coalmont and north of the Axe deposit where a sample yielded 4 zircons that overlap the U-Pb isochron at 238.2 ±0.3 Ma. Strongly pyritic zones form gossans exceeding 2 metres thick.

INTRUSIVE ROCKS

Late Cretaceous

lKAg — Allison Creek stocks. Pink to dark grey, leucogranitic to dioritic stocks and dykes, many of which cut strata of the Spences Bridge Group. This is a legacy unit (Preto, 1979), future geochronology may show that most LKAg bodies are late Early Cretaceous in age, belonging to the "Mine dykes" and Summers Creek stocks suite.

Early Cretaceous

mKSBkhp — "Mine dykes". Cream, yellow-orange to pink, north-trending quartz-orthoclase-plagioclase-biotite ±hornblende porphyritic. Commonly pyritic and clay-altered. Probably feeders to coeval Spences Bridge Group, dated near Copper Mountain and in the map area: 102.9 ±0.3 Ma (Mihalynuk et al., 2009) and 103.9 ±0.1Ma*.

mKSgd — Summers Creek stocks. Probably the deeper level equivalent of MKSBkhp, displaying a similar compositional variability, although typically medium to coarse-grained with xenolith-rich zones. K-Ar cooling ages are coeval within error (99.1 ±4.2Ma Breitsprecher and Mortensen, 2005 after Preto, 1979).

Middle Jurassic

mJOg — Osprey Lake batholith. Uniform orthoclase megacrystic granite. White to pinkish-grey, with orthoclase up to 5 cm long in medium-grained matrix containing biotite > hornblende >> titanite and magnetite. U-Pb ages are: 166 ±1Ma (Parrish and Monger, 1991) and 162 ±2Ma* from a probable screen inside the Summers Creek pluton.

Early Jurassic

eJBgd — Bromley pluton. Medium- to coarse-grained, grey, hornblende-biotite granodiorite. A U-Pb age of 193 ±1 (Parrish and Monger, 1991) from east of the map area is consistent with a 193.6 ±0.2Ma* from affiliated pegmatite in the southeast map area.

eJd — Diorite. Composition varies to quartz monzodiorite. Dark grey, blocky, varitextured, may originate as dense dyke complex. Hornblende locally have cores of pyroxene. Altered with porphyry-style mineralization. 40Ar-39Ar cooling ages are 188 ±3Ma (Mihalynuk et al., 2014) and 162 ±3** from fine-grained secondary biotite.

eJfp — Feldspar porphyry. Medium-grained feldspar and lesser coarse hornblende, locally trachytic alignment in a tan to green-grey matrix. May be partly extrusive.

Early Jurassic - Late Triassic

TrJgd — Granodiorite. Composition ranges to quartz diorite. May display local zones of foliation, as does the Boulder intrusion near Tulameen.

Copper Mountain suite

lTrd — Diorite to lesser granodiorite. Commonly varitextured and tectonically disrupted. Includes bodies at Rum and Axe prospects displaying porphyry copper-style mineralization.

tourmaline — tourmaline alteration zone around the dioritic intrusion at the Rum prospect, including zone of tourmaline-cemented breccia.

Late Triassic

Allison Lake pluton

lTrAd — Quartz diorite phase. Distribution and K-Ar age of 204 ±10Ma after Preto (1979, age recalculated by Brietsprecher and Mortensen, 2004).

lTrAgd — Granodiorite. Grey, hornblende-phyric with distribution shown from Preto (1979).

lTrAg — Main granite phase. Red-orange to grey, locally miarolitic and/or graphic granite containing variably altered hornblende and biotite. A clast of this intrusion collected from the basal conglomerate of the Spences Bridge Gp. yielded a K-Ar cooling age of 207 ±7Ma (Preto, 1979, recalculated, Brietsprecher and Mortensen, 2004).

Tulameen Complex

lTrTu — Mafic-ultramafic complex and satellite bodies. Dunite to monzosyenite Alaskan-type intrusion is probable root to the Nicola arc. A U-Pb age of 210 ±5 was derived from syenodiorite (Rublee, 1994) west of the map area.

*unpublished reports by R. Friedman (2014), Pacific Centre for Isotopic and Geochemical Research, University of British Columbia
**unpublished reports by J. Gabites (2014), Pacific Centre for Isotopic and Geochemical Research, University of British Columbia

SYMBOLS

Geological contact: defined, approximate, inferred

Form lines

Unconformity: defined, approximate, inferred

Fault: defined, approximate, inferred (teeth on downthrown side where known)

Thrust fault: inferred

Axial trace of regional fold: anticline, syncline

Bedding: inclined, vertical, tops indicated, overturned, horizontal (31, 22, 67)

Fabric: jointng; slaty cleavage or schistosity (inclined, vertical, second phase) (82, 43)

Fold axis, axial cleavage (31, 25)

Lineation: inclined, horizontal (44, 55)

Brittle shear, brittle shear vertical, dyke, dyke vertical (31, 67, 78)

Glacial striae (bidirectional)

Isotopic age date sample site: U-Pb zircon, detrital zircon, 40Ar-39Ar, K-Ar ..... 103Ma (U) (Z) (Ar) (K)

Past producer, developed prospect, showing

Drill Hole, trench, adit

Topographic contour (20 metre intervals) and spot heights 1200

Landslides (ommitted at Miner Mountain for clarity, see Mihalynuk and Logan, 2013)

Alteration zone: pyrite halo (Chapman, 1970)

Lakes; Wetlands (swamps and marshes)

Outcrop (darker shade, symbol where too small to map)

Field station (also on Reliability diagram)

Outline of map areas shown at larger scale in Mihalynuk and Logan (2013a, b) ..... Map Area

Local Geology

The geology of the local area is comprise of late Triassic to early Jurassic allochthonous Nicola Group rocks that host syn and post depositional intrusives. These rocks have been structurally imbricated, folded by Jurassic aged compressional activity as the Nicola island arc collided with north America. Jurassic and later intrusives with coeval volcanic and sediments form more recent manifestations of this orogen. The most recent deposits are unconsolidated pre, syn and post glacial deposits.

The nearest significant metallic mineral occurrences are Nicola Group intermediate calc-alkalic to alkalic intrusives that host porphyry copper-gold-silver mineralization. The AXE and MAN-PRIME developed prospects occurring to the south and northeast of the SADIM claims respectively are the most significant local deposits of this type. Currently lesser deposits include the RUM-COKE deposits that the current property partially envelopes at its north end. The numerous "red bed copper' showings in the area (ANITA) are either difficult to locate or apparently found to be related to porphyry systems. Later interpretedly Cretaceous to early Tertiary structurally hosted precious metal veins systems are now form a popular exploration target. Examples of these deposits (Shovelnose) in the region include several deposits within the Cretaceous Spences Bridge gold belt northwest of the area, The SADIM, HIT and MISS prospects may be southeasterly examples of this deposit type. The early Tertiary ELK and SIWASH gold deposits east of the area also represent an exploration target in the area. Industrial and non-metallic mineral deposits in the area include limestone, gypsum, opal and fire opal, zeolite, decorative and dimension stone and gravel.

Property Geology and Mineral Occurrences

The geology of the SADIM property area is comprised of structurally imbricated and folded late Triassic to early Jurassic Nicola Group rocks. These include from west to east an eastern portion of the Allison Lake pluton, mafic to intermediate volcanics with remnant of coeval sediments including limestone. These rocks have been intruded by dioritic to granodioritic coeval intrusives. The dioritic intrusives appear to host the most important porphyry copper deposits found adjacent to the property. The current property's most significant mineral occurrence is the SADIM gold deposit. Lesser showings are small copper showing historically described as RED BED copper (ANITA, GOLDEN, FAN , LAIRD LAKE). However, with the possible exception of the GOLDEN 1 (Minfile 092HNE 053) these appear to be related to porphyry copper style mineralization. There are no known commercially viable industrial mineral or gravel deposits on the property.

The SADIM prospect currently occurs as a 300 by 150 metre north trending zone of dominantly west striking steeply south dipping white quartz veins that host highly variable quantities of gold with silver. The zone has been tested by several hundred metres of trenching and over 50 drill holes. The deposit has been tested to a ~150 metre depth.

The following description is excerpted from Yeomans 2018.

…"At the Sadim gold prospect, rocks are cut by a major east-dipping shear zone, possibly a thrust fault, which trends north, and ranges up to 15 m in width. The zone occurs along a dark grey carbonaceous limestone and separates andesitic flows and tuffs to the west from mixed tuffs to the east. The shear has caused intense fracturing and alteration in the adjacent tuffs, especially in the hangingwall. The tuffs are moderately to strongly carbonatized and variably silicified.

A quartz vein stockwork is developed in the hangingwall tuffs, comprised of quartz veins ranging from less than a millimeter to greater than 1 m in width. The quartz veins are erratically mineralized with disseminated sulphides, consisting mostly of pyrite and chalcopyrite, and lesser galena. Petrographic studies also indicate traces of sphalerite and lead and silver tellurides (altaite and hessite). The sulphides commonly occur along vuggy vein margins or in the centre of the veins.

Chip sampling of trenches yielded gold values of 0.050 to 4.35g/t Au over 1 m (Watson, 1987). The precious metals content of the stockwork is directly related to the intensity of quartz veining, fracturing and sulphide content. Galena is strongly associated with higher gold and silver values. Gold to silver ratios are remarkably constant at about 1 to 8 (Watson, 1988). The nature of this mineralization and alteration suggests the deposit is of mesothermal origin (Watson, 1988)."…

As currently interpreted, the veins occur in an section of nearly north striking, variably east dipping isoclinally folded, strongly to intensely ankeritically altered andesitic 'lahar' breccia unit that forms the hangingwall of a moderately east dipping thrust fault. The andesite is conformably underlain by andesitic tuffs and flows and overlain by andesitic tuffs that grade into highly deformed greywacke. The individual veins, although described as a stockwork above are actually generally subparallel east striking and south dipping but highly variable in both strike and dip with similar variations in gold-silver grade. The zone is open to depth and to the east.

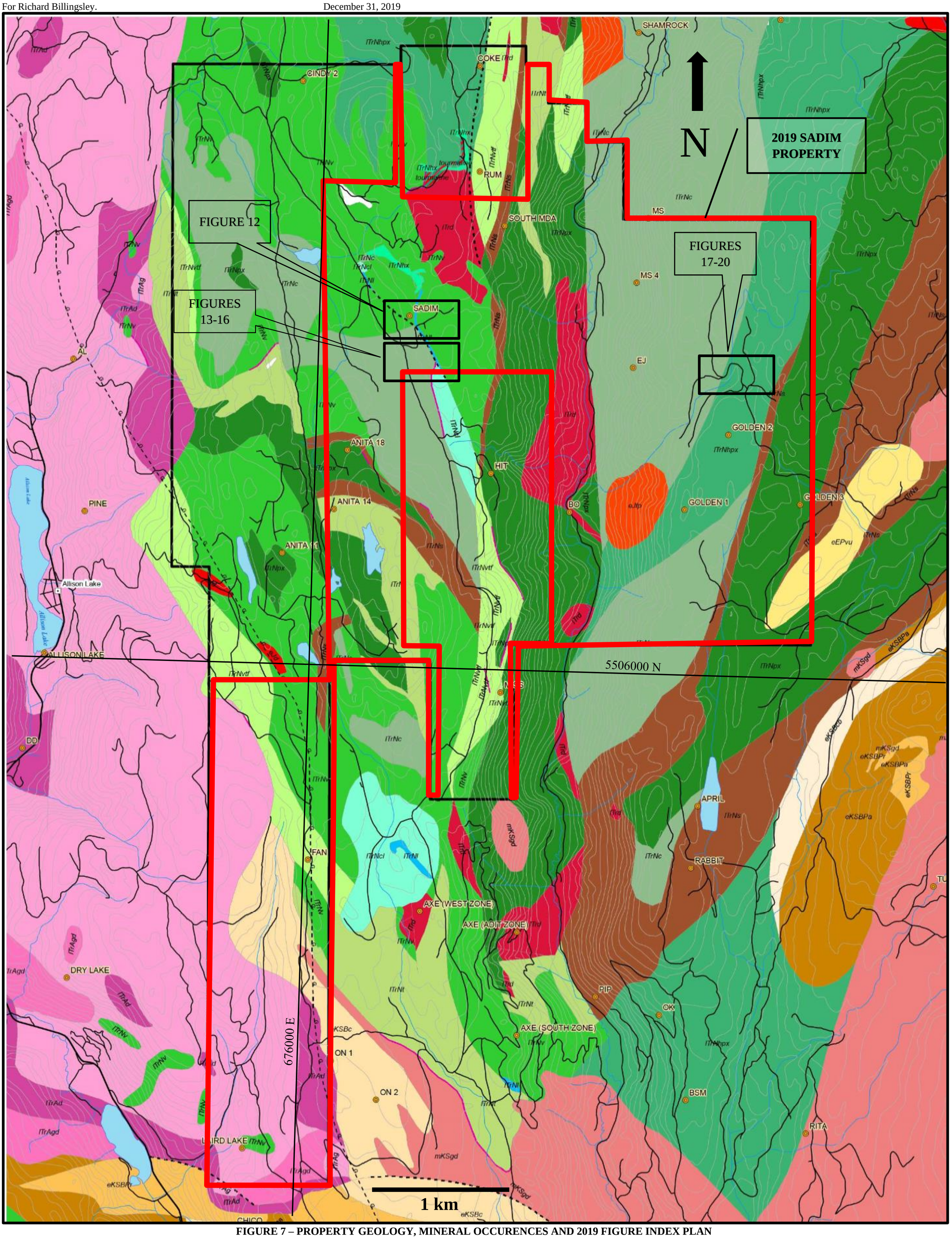


FIGURE 7 – PROPERTY GEOLOGY, MINERAL OCCURENCES AND 2019 FIGURE INDEX PLAN

2019 EXPLORATION PROGRAM

The 2019 program was concentrated in two areas; 1) the SADIM prospect area, and 2) the north Golden Area some 3 km to the east. Please refer to Figure 6.

October 9 was spent examining the SADIM main and east area. The SADIM main area to determine the current state of existing trenches, key drill sites and a determination of the extent and degree of alteration east of the SADIM main zone. The examination was hampered by a very early ~ 20 cm snow fall and unseasonably cold temperatures. See Google Dioptra image below. However, the snow did not entirely prevent a basic examination of the site and its purpose.

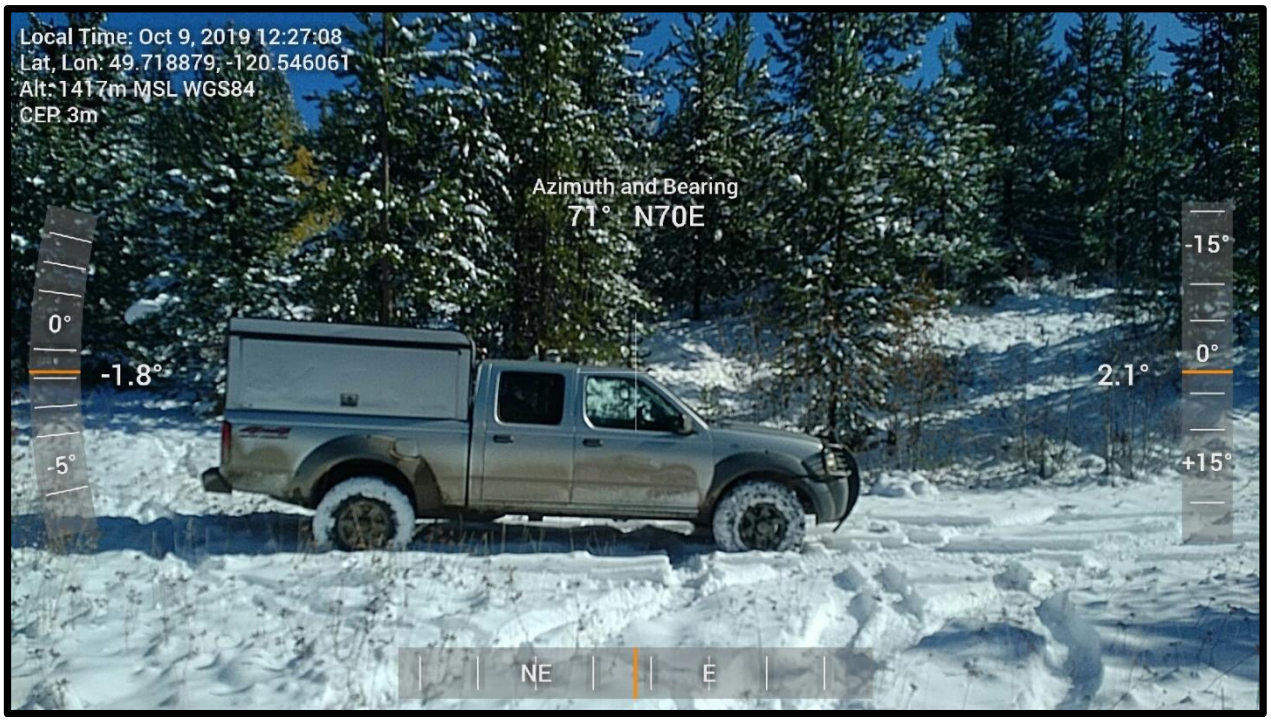


IMAGE A- PARKED AT SADIM ZONE OCT 09, 2019

The author in his review noted that past interpretations of the geometry and extent of the mineralization constrained it to an area directly underlying the surface exposures. Two vertical drill holes 02-07 and 02-08 tested to shallow depths the eastern area (see Figure 8 below), however the holes did not extend to the interpreted basal thrust supposedly controlling the flow of the mineralizating fluids. Even though hole 02-07 mentioned silicification and bleaching in the core no samples were taken and analyzed. Hole 02-08 was drill to only 50 metres, less than 1/4 the distance to the interpreted thrust.
The author's purpose was to examine the area of these two drill holes to a) locate the drill sites, and b) located and examine any outcrops to determine their degree of alteration.

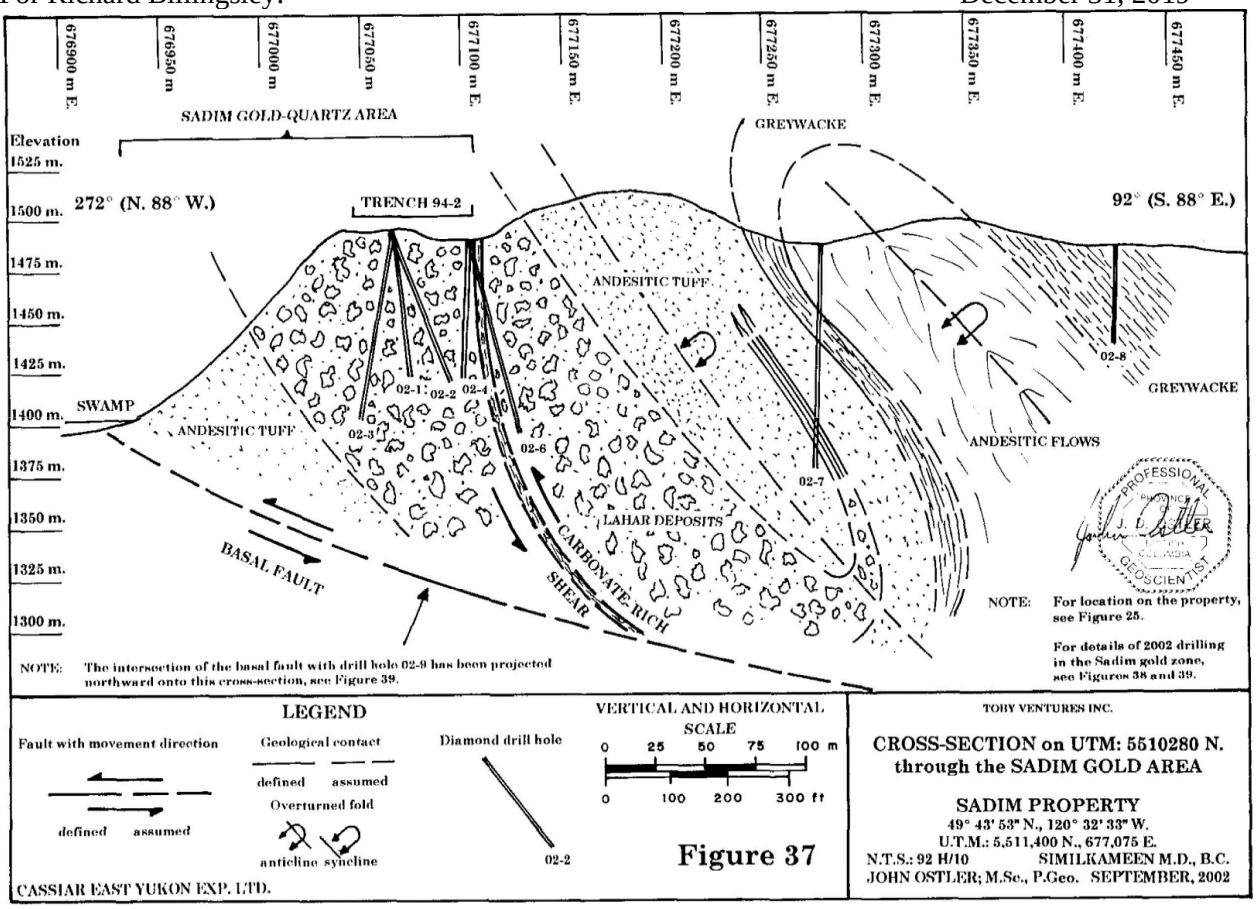


FIGURE 8 – SADIM ZONE CROSS SECTION on UTM 5510280 N
Source, Ostler 2002

The outcrop locations examined are presented Figure 9 below, Table 4 below and images B, C and D below. The traverse along the reclaimed logging road that accesses the two drill sites had two outcrop exposures. Both displayed variably hydrothermally altered rock. SOC-1009-01 (IMAGE B below) some 100 m southwest of drill hole 02-08 displays moderately pervasive dominantly carbonate and/or ankerite alteration suggesting that hydrothermal fluids did penetrate that section of the rock mass. Hole 02-08 and SDOC-1009-01 lie a short distance west of an east dipping chargeability and resistivity anomaly (FIGURE 4 above, Walcott, 2018 pp 35-37). It is possible that the alteration seen is an at surface reflection of that geophysical signature and/or a signature of the mapped east dipping andesitic flow volcanic unit (FIGURE 8 above).

FIGURE 9
OCT 09 TRAVERSE, OLD DRILL SITES, TRENCH SITE, OUTCROP AND FLOAT LOCATIONS

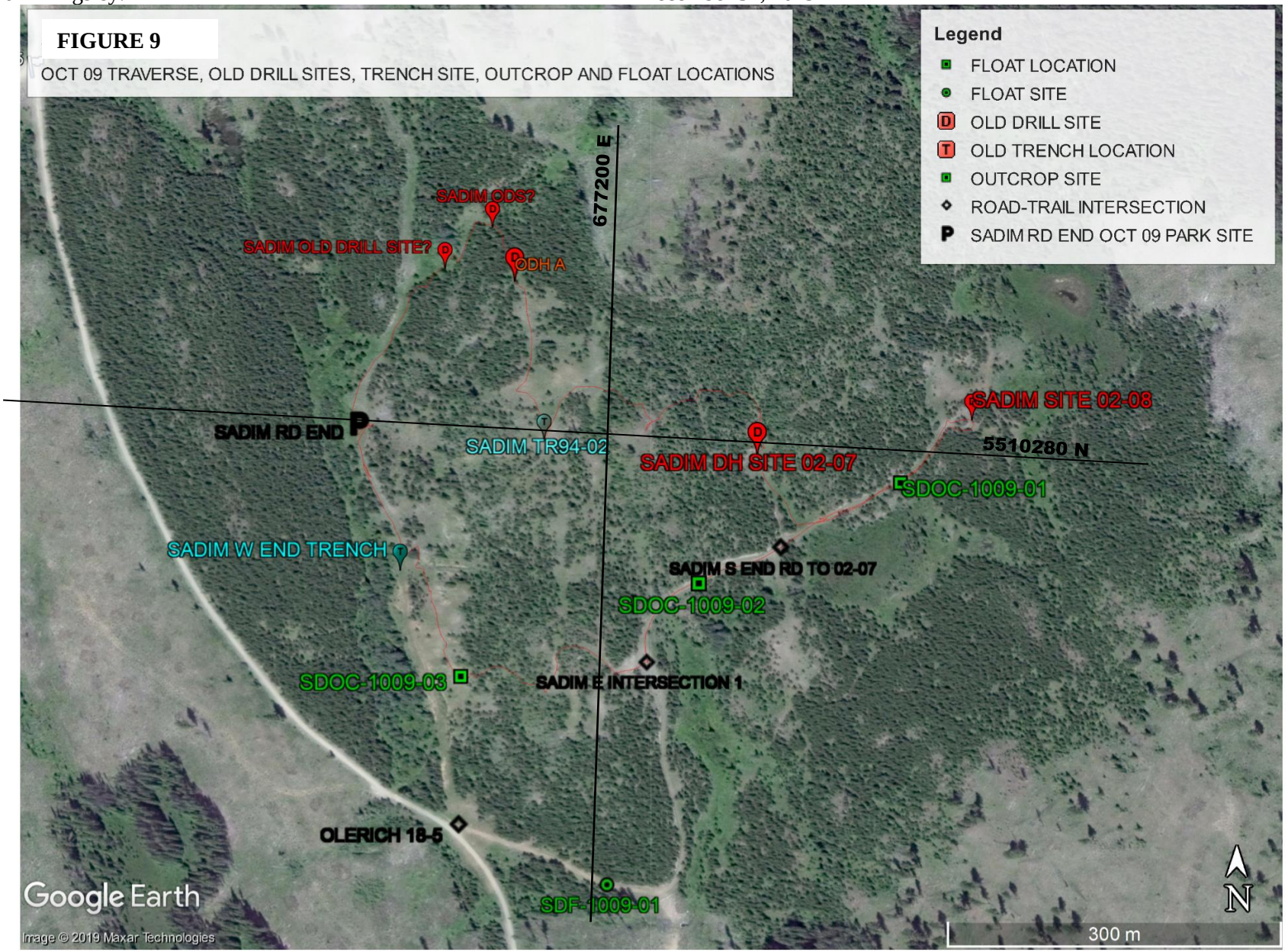


IMAGE B – SDOC-1009-01

IMAGE C – SDOC-1009-01 detail

IMAGE D – SDOC-1009-02

October 10 was directed to taking widely spaced ~ 80-140 metres soil and Douglas Fir bark samples with outcrop mapping along an 800 metre WSW traverse some 500 metres south of the SADIM prospect (Figure 10 below). Outcrops or float locations showing evidence of alteration were noted and GPS recorded. Seven evenly spaced tree bark and soil samples were taken. Sampling procedure are discussed in the "Sampling Method and Approach" section below. Sample preparation, analytical procedures used and security measures taken are discussed in the "Sample Preparation, Analyses and Security" section below. Analytical results are presented in the "Results and Conclusions" section below.

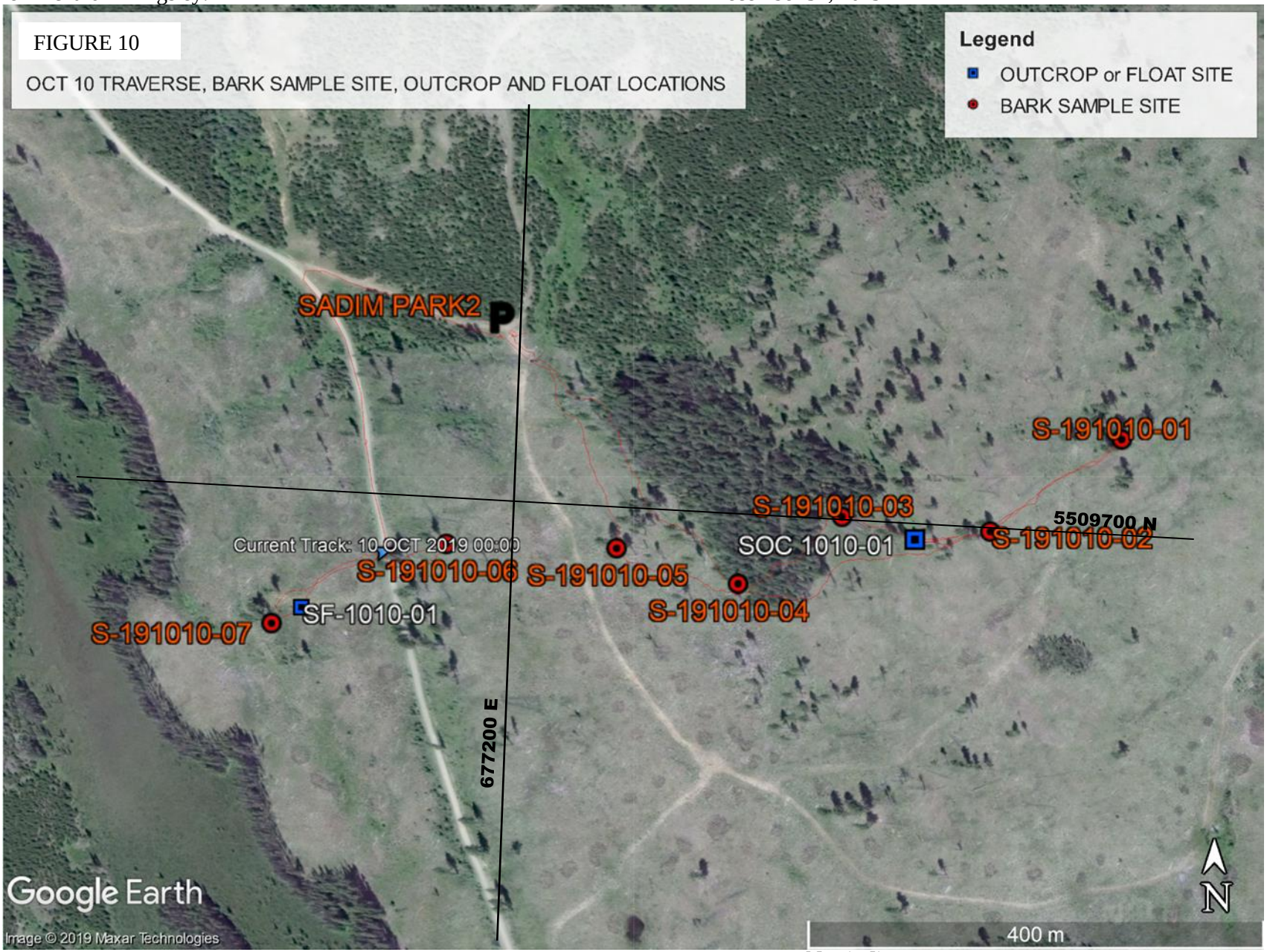
October 11 was directed to taking widely ~150 metres spaced soil and Douglas Fir bark samples with outcrop mapping along a 700 metre E-W traverse overlying some anomalous for copper in soil results (Travis, 2016) and a short distance north of the GOLDEN showings (Figure 11 below). Outcrops or float locations showing evidence of alteration were noted and GPS recorded. Five evenly spaced Douglas Fir tree bark and four soil samples were taken. Sampling procedure are discussed in the "Sampling Method and Approach" section below. Sample preparation, analytical procedures used and security measures taken are discussed in the "Sample Preparation, Analyses and Security" section below. Analytical results are presented in the "Results and Conclusions" section below.

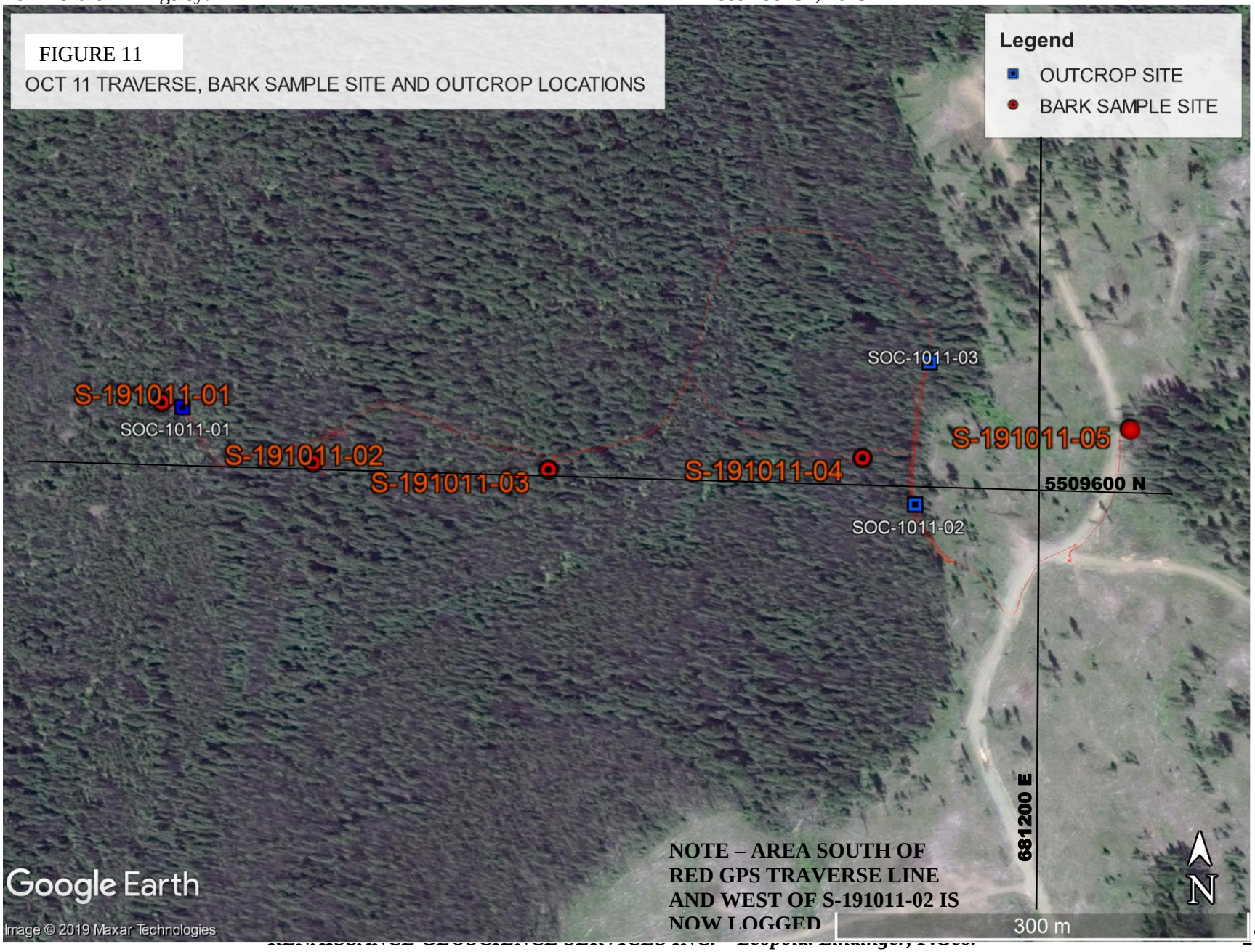
IMAGE E - FLOAT SITE SF-1010-01

300+ metres S of SADIM Gold Zone. Bleached angular strongly carbonate altered rock in glacial till possibly from a source west of the SADIM zone. The area is bracketed by samples sites S-191010-06 and 7 which produced elevated silver in ionic leach soil and ashed fir bark, copper in bark, lead in soil ionic leach, and zinc in soil and bark ionic leach.

FIGURE 10

OCT 10 TRAVERSE, BARK SAMPLE SITE, OUTCROP AND FLOAT LOCATIONS





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SAMPLING METHOD AND APPROACH

Soil samples.

Soil samples were taken at sites within 8 metres of a Douglas fir bark sample site (except for site S-191011-05 where no soil samples were taken due to no undisturbed soils being present within a 10 metre radius)) in visually undisturbed ground not apparently in the immediate proximal root zone of a large existing or logged off tree. For conventional multielement analyses plus gold samples were taken from the BF horizon between 10 and 20 cm depth. The samples were hand filtered to remove large pebbles and rootlets prior to placing in pre labelled kraft paper bags. The samples chosen for ionic leach analyses were taken from BF mineral soil horizon directly below the organic layer as recommended by ALS guidelines. The average thickness of the sample profile was 5 to 6 cm. The samples were hand filtered to remove large pebbles and rootlets prior to placing in pre labelled plastic Ziploc bags.

Douglas Fir Bark Samples.

Due to the extensive pine bark beetle infested tree harvesting virtually no older pine trees, normally the preferred bark sampling host remained in a sufficient density to provide a meaningful survey. Even though there is no easily reference evidence of the use of Douglas fir bark as a geochemical survey medium the author decided to use this medium due to a sufficient density and extent of large old specimens of this species for sampling. The author chose large trees at least 80 cm and preferable over 1.2 metre thick at chest height. A small axe was used to sample the bark. Due to the large deeply ridged growth pattern of the bark an effort to sample as evenly as practical the entire cross section from near the cambium to the oldest bark was made. Refer to Appendix C for bark sample images. The spacing between trees and associated soil samples ranged from 80 to 130 metres.

SAMPLE PREPARATION, ANALYSES AND SECURITY

The sample bag label method was S for SADIM project, then the year (19), month (10), date (10 or 11) then an "S" suffix for ICP soil analyses. The ionic-enzyme leach soil sample label was the same except for an "E" suffix for 'enzyme leach' analyses.
The samples for bark ash analyses was placed in a prelabelled 20 by 35 cm perforated Hubco bag. The label was the same as above except for a "BA" suffix for bark ashing preparation prior to analyses. The samples for "enzyme leach" analyses were placed in a similar bag then into a clear sealable Ziploc bag. The label was the same as above except for a "BE" suffix for bark 'enzyme or ionic leach' analyses.
The samples were transported from the field to the secure Renaissance Geoscience Services Inc. facility at 680 Dairy Road, Kamloops, B.C. There the sample advice forms were filled out and the samples for each analytical procedure were consolidated in separate bags with the appropriate sample advice sheet in them. The samples were transported by the author to the ALS sample preparation facility in Kamloops B.C.

Due to the prospective nature, limited sample set (and in the case of the bark samples lack of suitable standards) of this program no blanks or standards were used.

Sample Preparation

Samples are catalogued and dried. Soil samples are prepared by sieving through an 80 mesh screen to obtain a minus 80 mesh fraction. Samples unable to produce adequate minus 80 mesh material are screened at a coarser fraction. These samples are flagged with the relevant mesh.

The Douglas fir bark samples weighed an average of 290 grams for the ash samples and at least 300 grams for the ionic leach sample set. The samples chosen for ash analyses were macerated and an approximately 50 grams subsample was taken for ashing at 475 degrees. The approximately 0.25 gram ashed sample was then sent for analyses.
The samples chosen for ionic leach analyses were macerated and milled to <1 mm fragment size. From this material a 5 gram subsample was analyzed. Analytical procedures are presented in the next section.

*Analyse*s

The 'regular' soil samples were analyzed using ALS Minerals "*AuMETL43™25g sample*" procedure. The method is 'OK' for *"target definition where trace level methods by aqua regia digestion and ICP-MS finish are excellent for regolith, where gold anomalies indicating mineralization below surface are well-characterized."*

The soil samples having the "enzyme leach procedure were analyzed using ALS Minerals *"Ionic LeachTM"* procedure which "*is designed to enhance the most subtle labile geochemical anomalies for a wide range of commodities. It is a static sodium cyanide leach using the chelating agents ammonium chloride, citric acid and EDTA with the leachant buffered at an alkaline pH of 8.5."*

The 50 gram vegetation (bark) sub-samples chosen for ash preparation were ashed at "*475°C for 24 hours. Pre- and post-ashing weights are reported*." A 0.25 subsample of the ashed material was digested using their "*ME-VEG41a™ ashed*" procedure producing a 41 element result including gold.

The 5 gram milled bark subsample was then digested in a proprietary "*Ionic Leach™"* procedure. "*Ionic Leach TM is designed to enhance the most subtle labile geochemical anomalies for a wide range of commodities. It is a static sodium cyanide leach using the chelating agents ammonium chloride, citric acid and EDTA with the leachant buffered at an alkaline pH of 8.5* A 1 gram subsample of the leachate was analyzed using ALS's "*ME-VEG41™"* procedure producing a 41 element result including gold.

…"Results are collated by computer and are printed along with accompanying quality control data (repeats and standards). Results and quality control data are emailed to the client in PDF and text file formats."…

DATA VERIFICATION

Each batch of samples had a separate QC document of quality control data of laboratory blanks, standards and sample duplicates. This information is presented in Appendix A.

Soil sample S-191011-03E was rerun. For this sample gold, erbium, manganese, lead, yttrium, and ytterbium were slightly outside of the upper and lower bounds. The elements reporting outside of bounds values were very low. A brief review of the standards and blanks did not reveal any issues.

Bark sample S-191011-03BE was also rerun. For this sample platinum, titanium, ytterbium and zirconium were slightly outside of the upper and lower bounds. The elements reporting outside of bounds values were fairly low. A brief review of the standards and blanks did not reveal any issues.

No other samples directly from the program were rerun. There does not appear to be any issues with the QC data for the soil sample analyses.

EXPLORATION RESULTS

The results of the preliminary prospecting, soil and Douglas fir bark sampling program are presented below with supporting information in TABLE 2 – ANALYTICAL RESLUTS SUMMARY in APPENDIX B, and APPENDIX A – ANALYTICAL AND QC affidavits.

The October 09 prospecting trip revealed that weak ankerite bleaching and alteration in outcrop is present a short distance south west of hole 02-08 and southeast of hole 02-07. This alteration may be a distal signature of the eastern extension of the auriferous SADIM system and/or a signature related to a strong IP and resistivity anomaly immediately east of hole 02-08. The area directly to the east of hole 02-08 has little to no outcrop for at least 200 metres. Data from this traverse is presented in Figure 9 above, Figure 12 in Appendix D, and Images B to E above.

The geochemical results of the soil and Douglas fir bark sampling completed on October 10 and 11 provided the following data which is summarized and discussed below with reference to the data from TABLE 2 in APPENDIX B, element and analytical comparison graphs presented in APPENDIX C, and FIGURES 13 to 20, copper, lead, zinc and molybdenum plots of the results of the 4 analytical procedures from the SADIM and GOLDEN areas in APPENDIX D .

Aqua regia soil samples results. The multielement aqua regia results did not produce any precious or base metal anomalies and did not duplicate nearby results from the 2013 soil samples analyzed by XRF. These results were also used as the baseline from which to compare the additional sample medium and analytical procedure results. Relatively elevated copper, lead, zinc were from sites on or near a north trending structure east of the SADIM target (S 191010-03E). and south of the SADIM target (S 191010-06E). . Molybdenum results also presented relatively elevated results one sample site west (S 191010-04E and 7E) of the three other elements. The average iron copper ratio was ~800, iron-lead ratio was 4400 and iron-zinc was 350.

Ionic leach soil results. The following observations can be made. The October 10 traverse soil ionic leach results produced the highest elemental contrast of the four procedures used. The October 11 traverse ionic leach results for lead, silver and gold also produced the highest contrast. All the analyses produced one weak gold-silver-copper anomaly (S 191010-03E). This sample also has significantly lower iron, lead, titanium, zinc and rare earth values. This sample and the other anomalous for silver sample S-191010-07E are in north trending structurally recessive areas with nearby altered bedrock or float. Iron, lead and zinc however were higher in the adjacent samples '2' and '6'. Sample S191011-03E in the Golden area has the strongest gold, silver again with lower on average lead and zinc values. A brief review of the results of the ionic leach analysis produced much stronger on average base metal results compared to iron. The average iron copper ratio was ~116, iron-lead ratio was 590 and iron-zinc was 116 and copper ICP/copper Ionic leach was 61. There may be a weak correlation with the XRF and soil ionic leach results.

The Douglas fir bark ashing resulted in concentrations surprisingly ranging from 71 to 213. The ashed results also had higher base metal/iron ratio's than both of the soil sample results. A brief review of the data indicated that elements apparently anomalous in the ashed results also had the lowest ash to bark weight ratios and vice versa. When (for example for copper) the ashed copper value (range 263-1180 ppm) was multiplied by the ash weight/pre ashed weight ratio the results produced an average 4.45 ppm with a range of 2.7 to 6.3. However, even using the ashed – pre-ashed factor iron produced the widest variation (9.2 to 42 ppm) versus 660 to 6400 ppm for the ashed values. The average iron copper ratio was ~4.7, iron-lead ratio was 190 and iron-zinc was 2.65. Direct ash gold results were apparently the best with good contrast however when adjusted to the pre ashed/ashed weight ratio the results were similar to the other methods at or barely above threshold. A tentative conclusion (based on this limited dataset) is that there is a weak lead anomaly at sample site S-1910-05 which partially overlies the southern extension of the SADIM zone.

The Douglas fir bark ionic leach results. From the average 300 gram macerated sample a 5 gram subsample was taken for analyses. The October 11 fir bark ionic leach results produced high contrast results relative to the regular soil aqua regia digestion and bark ash results. Sample S-191011-05BE had the highest gold, chromium, copper, iron, molybdenum, lead, rubidium, thorium and uranium values of the samples (there were no soil samples taken at this site). As stated earlier the source tree is rooted directly into fractured bedrock, and not as most other trees in thick till. The source tree of sample S-191011-01 was similarly sited in a thin overburden area. However, this tree did not produce as striking a set of results. The analytical results produced even more dramatically lower iron to base metal ratios. Zinc relative to other elements in this analytical method produced the highest average values for all samples averaging 12 ppm. The average iron copper ratio was 0.18, iron-lead ratio was 20.7 and iron-zinc was 0.4, and copper ICP/copper Ionic Leach was 1.55.

Additional comparative observations are that for copper and zinc soil and bark produced opposite trends for arsenic, lead and rare earth elements relatively complimentary trends especially for the soil ionic leach and both bark analytical procedures. Iron produced the largest analytical results ranges in the soil ionic leach and bark ash results. Arsenic produced the strongest results with

relative anomalies in both bark analytical methods except that the highest results in the ionic leach results were displaced by one sample on both days resulting in a westward and eastward drift on October 10 and 11th respectively.

TABLE 3 - 2019 EXPLORATION EXPENDITURES					
Exploration Work type	**Comment**	**Days**			**Totals**
Personnel (Name)* / Position	**Field Days (list actual days)**	**Days**	**Rate**	**Subtotal***	
LINDINGER	OCT 09-11, 2019	3	$775.00	$2,325.00	
				$2,325.00	**$2,325.00**
Office Studies	**List Personnel (note - Office only, do not include field days**				
Literature search	LINDINGER	0.5	$880.00	$440.00	
Database compilation	LINDINGER	0.5	$880.00	$440.00	
Computer modelling	LINDINGER	1.0	$700.00	$700.00	
Reprocessing of data	LINDINGER	0.3	$880.00	$264.00	
General research	LINDINGER	0.4	$880.00	$352.00	
Report preparation	LINDINGER	4.0	$880.00	$3,520.00	
				$5,716.00	**$5,716.00**
Ground Exploration Surveys	**Area in Hectares/List Personnel**				
Reconnaissance	LINDINGER - 1000 HECT.	*should be captured in Personnel*			
Prospect	LINDINGER - 1000 HECT.	*field expenditures above*			
Geochemical Surveying	**Number of Samples**	**No.**	**Rate**	**Subtotal**	
Soil	*note: This is for assays or*	22.0	$47.75	$1,050.50	
Biogeochemistry		24.0	$57.61	$1,382.64	
				$2,433.14	**$2,433.14**
Transportation		**No.**	**Rate**	**Subtotal**	
truck rental		3.00	$110.00	$330.00	
kilometers		220.00	$0.50	$110.00	
				$440.00	**$440.00**
Accommodation & Food	**Rates per day**				
Hotel	2 nights @ $120/night	2.00	$120.00	$240.00	
			$0.00	$0.00	
Meals	3 days @ $75/day	3.00	$75.00	$225.00	
				$465.00	**$465.00**
Equipment Rentals					
Field Gear (Specify)	GPS 3 days @ $5/day	3.00	$5.00	$15.00	
Other (Specify)	Sat phone 3 days @ 20/day	3.00	$20.00	$60.00	
				$75.00	**$75.00**
Freight, rock samples					
DELIVERY TO LAB			$0.00	$200.00	
			$0.00	$0.00	
				$200.00	**$200.00**
TOTAL Expenditures					**$11,654.14**

INTERPRETATION AND CONCLUSIONS

The results of a limited prospecting examination east of the SADIM gold zone indicated that weakly hydrothermally altered rocks, possibly reflecting part of the upper levels of a possible down dip to the east extension of the SADIM gold zone is present in the shallow vertical hole 02-08 area and that the hole, due to both its shallow depth and vertical orientation did not adequately test the area. This area is directly above a strong east dipping IP feature and the complete lack of outcrop in the area a moderate distance east of drill hole 02-08 indicates that this area requires further exploration to determine whether the causative source of the IP anomaly reflects a extension of the SADIM gold zone or second economic metal bearing zone.

The geochemical results of the south SADIM and GOLDEN areas indicate that soil ionic leach analyses appears to provide more direct bedrock signatures than the strong acid digestion soil method. The results of the fir bark ash and ionic leach results suggest that the ash method may be slightly better at determining bedrock characteristics than the bark ionic leach method and that the bark results may still be influenced by overburden thickness. However, analytical methods on both Douglas fir bark methods produced relatively complimentary elevated to weakly anomalous element results silver, arsenic base metals. Gold although producing weak variably complimentary results with other elements in the bark ash results was so low averaging less than 1 ppb in raw bark that no conclusive answers could be derived here. It must be stated though that the documentation of Douglas fir bark as a geochemical sampling method is apparently non-existent.

In conclusion both bark and soil ionic leach methods appear to produce stronger, tentatively associated with the interpreted bedrock potential silver, arsenic and base metal analytical signatures than from 'regular' strong acid digested soil results and that this preliminary test of these methods was a success. The one sample displaced elevated or lower than average pattern between elements may be related to electrochemical ionic flow patterns that produced apical or bracketing metal patterns depending on the metal.

RECOMMENDATIONS

Based entirely on the potential for locating additional gold mineralization at the SADIM gold zone additional exploration expenditures are recommended. The added knowledge gained from the 2019 program outlined in more detail below did not reduce that opinion and also provided additional tools to possibly using surficial exploration to locate the subsurface signatures precious, indicator and base metal mineralization by utilizing 'remote sensing' geochemical methods.

The 2019 program results indicate that 1) hydrothermally altered rocks occur east of the SADIM gold zone that occur directly up dip of east dipping IP features and that this are has never been subject adequately drill tested or sampled using modern 'remote sensing' analytical methods such as soil selective leach, and vegetation sampling and analytical methods.

Due to the success, especially for base metals and arsenic of the 2019 soil ionic leach and Douglas fir bark from OLD trees procedures used, additional exploration in target areas,

especially those adjacent to existing mineralized bodies and those overlying geophysical features indicating subsurface metal sources is recommended by using these and possibly other vegetation methods. Due to the extensive removal of lodgepole pine for the area this preferred bark sample source is not available. OLD over 1.2 metre diametre Douglas fir trees with extensive and deep root systems are still common in many areas in sufficient density to provide at least a first pass sample source. Continued bark sampling with both ash and ionic leach procedures are recommended within the target areas with a tree spacing of greater than 50 but less than 80 metres. The 2019 program took samples from the entire cross section of bark from the cambium to the bark from the youngest growth years. The average bark sample weight received at the lab was 290 grams for the ash sample and over 300 grams for the ionic leach sample. The average raw bark subsample ashed for analyses was 50 grams. The bark sample results from the ionic leach method was derived from a 5 gram subsample of an average 300 gram original.

From the knowledge gained from the 2019 Douglas fir bark vegetation sampling program, especially the laboratory minimum sample requirements a smaller bark sample from the youngest bark representing the most recent time period (last ~20 years) of 100+ year old trees would be preferentially sampled instead of the entire cross section. The element suite from this material would represent the largest and deepest sample source in the tree's location. Due to the trees size, twig and needle sampling (at least 20 metres up the tree) is not a cost affective option. Due to the elemental variation seen in the 2019 program a denser spacing of 50-70 metres is considered practical and may improve target development.

From the knowledge gained from the strong acid versus 'weak acid digestion – ionic leach' soil analyses procedure the latter procedure on its own is an effective prospecting tool but in conjunction with the results of other sampling and analytical procedures and results appears to produce even from the wide spaced limited dataset of the 2019 program better targets. Care must be taken to ensure in logged areas that the soil profile at the sample site is undisturbed. (This is a problem in the SADIM gold zone as there is little evident undisturbed soil remaining and very few Douglas fir trees).

The following phase 1 recommendations are for the area within the current claim boundaries. The SADIM gold zone and surrounding area remains the primary exploration target.

Phase I

Recommended is conventional soil, ionic leach soil and Douglas fir bark ash and ionic leach sampling both at least 250 metres east and west of the SADIM gold zone over a 300+ metre north south distance. In conjunction is a rigorous prospecting program over the many new clearcuts and resource roads and trails constructed in the last 5-10 years. Soil sample spacing is spaced at 50 metres and tree bark sampling at a minimum 50 metres and based on tree availability.

This program is budget at $40,000 with details presented in Table 4 below..

Phase II

Depending on exploration results of Phase I and the availability of financing phase II exploration would be contingent on the phase I results as well as recommendations from earlier programs including step out drilling to the east from the SADIM main zone.

TABLE 4 - RECOMMENDFED PHASE I EXPLORATION EXPENDITURES		
ITEM	**DETAILS**	**CHARGE**
Preparation		2,000
mobilization demobilization		3,500
Geological mapping	4 DAYS @ $800 per day*	3,200
Sampling and prospecting	8 mandays ~$500/day plus analytical costs*	4,000
analytical charges	150 soil samples @ $60.sample	6,000
analytical charges	70 fir bark samples @ 65/ sample	4,550
vehicular support	12 vehicle days @ $120 per day	1,500
hotel	12 person nights @ $125/ night	1,500
project management	2 days @ 800	1,600
Report and CAD drafting		8,000
Contingency		4,000
TOTAL RECOMMENDED EXPENDITURES:		39,850

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CERTIFICATE

Leopold Joseph Lindinger, P.Geo.
680 Dairy Road, Kamloops, B.C. V2B-8N5
Tel/text. 250-319 0717
Email leojolindinger@gmail.com

HEREBY DO CERTIFY THAT:

1. I, Leopold Joseph Lindinger, P.Geo. of 680 Dairy Road, Kamloops, B.C..

2. I graduated in 1980 from the University of Waterloo, Ontario with a Bachelor of Sciences (BSc) in Honours Earth Sciences.

3. I am a member in good standing as a Professional Geoscientist (#19155) with the Association of Professional Engineers and Geoscientists of the Province of British Columbia since 1992.

4. I have worked continuously as a geoscientist since graduating in 1980.

5. I am responsible for presenting the exploration results, conclusions and recommendations made for the "**Prospecting and Geochemical Report on the SADIM Property"** .

Dated this 31st day of December, 2019

Leopold J. Lindinger, P.Geo.

APPENDIX A
ANALYTICAL RESULT AFFIDAVITS

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

CERTIFICATE VA19264844

Project: SADM

This report is for 12 Vegetation samples submitted to our lab in Vancouver, BC, Canada on 18-OCT-2019.

The following have access to data associated with this certificate:

RICHARD BILLINGSLEY	LEOPOLD LINDINGER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
EXTRA-01	Extra Sample received in Shipment
DISP-01	Disposal of all sample fractions
LOG-22	Sample login - Rcd w/o BarCode
VEG-ASH01	Controlled Ignition - Veg Samp. @ 475C

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-VEG41a	Super Trace - Ashed Vegetation Samples

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	WEI-21	VEG-ASH01	VEG-ASH01	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	Recvd Wt.	WT. SAMP	WT. ASH	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	g	g	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.01	0.01	0.0002	0.001	0.01	0.01	1	0.1	0.01	0.001	0.01	0.001	0.003	0.002
S-191010-01BA		0.30	50.2	0.39	0.0033	0.256	1.56	17.10	372	945	0.05	0.054	28.2	2.40	1.695	2.80
S-191010-02BA		0.32	49.3	0.26	0.0082	0.441	1.73	21.4	511	336	0.04	0.105	26.7	46.2	0.992	2.79
S-191010-03BA		0.34	48.4	0.46	0.0030	0.313	1.87	105.0	481	1765	0.03	0.025	32.6	23.0	0.610	3.14
S-191010-04BA		0.28	48.5	0.58	0.0026	0.331	0.56	10.25	246	237	0.04	0.053	32.3	8.90	1.250	2.10
S-191010-05BA		0.32	49.1	0.23	0.0073	0.344	2.40	18.55	421	406	0.10	0.231	28.4	35.8	3.20	7.41
S-191010-06BA		0.36	50.0	0.33	0.0047	0.426	1.43	29.8	448	919	0.07	0.096	26.0	9.04	2.70	4.45
S-191010-07BA		0.30	50.2	0.43	0.0037	0.252	1.72	33.3	354	310	0.08	0.110	26.9	4.16	2.33	3.22
S-191011-01BA		0.32	49.3	0.69	0.0017	0.093	0.56	8.40	239	355	0.02	0.027	33.0	2.61	0.440	1.340
S-191011-02BA		0.28	50.0	0.34	0.0054	0.257	2.14	22.9	374	514	0.05	0.066	27.3	2.98	1.225	2.00
S-191011-03BA		0.38	50.8	0.54	0.0030	0.128	0.65	50.5	405	180.5	0.06	0.075	31.5	9.51	1.515	3.50
S-191011-04BA		0.28	50.1	0.24	0.0045	0.446	3.09	42.1	619	295	0.06	0.067	23.4	3.19	1.605	4.77
S-191011-05BA		0.28	51.6	0.47	0.0052	0.163	1.10	12.55	357	234	0.03	0.051	32.3	1.875	1.040	1.135

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.01	0.005	0.01	1	0.004	0.005	0.002	0.001	0.005	0.01	0.002	0.1	0.001	0.1	0.01
S-191010-01BA		4.39	0.807	709	3000	0.674	0.021	0.039	0.002	0.018	8.34	0.934	1.2	0.880	2710	2.65
S-191010-02BA		6.77	0.372	681	2300	0.426	0.014	0.022	0.002	0.005	>10.0	0.544	0.7	1.050	5860	7.61
S-191010-03BA		3.11	0.165	377	900	0.264	0.011	0.015	0.004	<0.005	6.44	0.438	0.5	0.940	4840	1.08
S-191010-04BA		4.69	0.277	381	2200	0.471	0.014	0.029	0.001	0.005	3.58	0.733	1.0	0.670	4220	2.20
S-191010-05BA		6.15	0.552	584	4800	1.180	0.024	0.068	0.007	0.020	4.00	1.745	1.5	1.310	3990	2.46
S-191010-06BA		9.91	0.896	807	6400	1.145	0.028	0.062	0.001	0.012	6.95	1.465	2.3	0.800	3740	2.48
S-191010-07BA		4.96	1.420	733	4100	0.807	0.022	0.053	0.001	0.020	7.70	1.340	1.8	0.810	2500	2.43
S-191011-01BA		0.84	0.250	263	657	0.151	0.008	0.009	<0.001	<0.005	3.01	0.310	0.3	0.430	4030	1.09
S-191011-02BA		2.48	0.581	514	1900	0.565	0.012	0.029	0.001	0.010	7.25	0.814	1.0	0.690	5150	1.55
S-191011-03BA		2.83	0.413	437	2600	0.612	0.012	0.046	<0.001	0.011	4.65	0.946	1.3	1.140	4920	1.41
S-191011-04BA		4.44	0.413	1180	2800	0.562	0.017	0.030	0.005	0.010	>10.0	0.864	0.8	0.970	2230	11.60
S-191011-05BA		3.64	0.609	474	2000	0.504	0.019	0.033	0.002	0.010	3.58	0.554	1.0	1.220	1690	1.73

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	Na	Nb	Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr
	Units	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.002	0.04	0.001	0.01	0.001	0.002	0.01	0.001	0.01	0.01	0.01	0.005	0.01	0.02
S-191010-01BA		0.069	0.103	3.35	3.16	16.60	0.005	<0.002	67.2	0.002	2.93	0.93	1.59	3.50	0.37	926
S-191010-02BA		0.045	0.082	3.42	2.41	10.65	<0.001	<0.002	42.9	0.003	1.99	1.45	1.16	2.85	1.06	1000
S-191010-03BA		0.129	0.040	2.11	1.550	6.20	<0.001	<0.002	40.2	0.002	1.24	0.45	0.60	2.02	0.78	896
S-191010-04BA		0.063	0.081	2.56	1.150	12.50	0.003	<0.002	15.95	0.002	3.00	0.55	0.88	2.14	1.14	1305
S-191010-05BA		0.148	0.159	6.23	2.16	35.7	<0.001	<0.002	39.6	0.003	1.77	1.59	1.60	2.89	0.94	672
S-191010-06BA		0.095	0.175	4.50	1.995	13.15	0.005	<0.002	55.2	0.006	2.81	0.67	2.18	2.89	0.74	914
S-191010-07BA		0.132	0.155	4.79	3.19	16.30	0.006	<0.002	61.1	0.003	2.49	1.08	1.51	3.61	0.56	708
S-191011-01BA		0.028	0.025	0.86	0.706	4.32	0.006	<0.002	21.7	0.002	1.40	0.22	0.43	1.175	0.18	2070
S-191011-02BA		0.072	0.075	1.87	2.16	16.30	0.004	<0.002	45.7	0.004	3.09	0.40	0.90	2.37	0.49	1015
S-191011-03BA		0.142	0.101	2.88	1.225	10.75	0.003	<0.002	28.8	0.007	3.35	0.89	1.05	2.43	0.38	856
S-191011-04BA		0.092	0.095	3.89	3.39	19.40	<0.001	<0.002	56.0	0.005	3.32	0.80	1.44	2.54	0.75	698
S-191011-05BA		0.045	0.092	1.87	1.525	41.4	0.004	<0.002	65.8	0.007	3.02	0.49	0.93	3.28	0.39	973

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.02	0.002	0.001	0.002	0.005	0.05	0.01	0.003	0.1	0.02
S-191010-01BA		<0.001	<0.02	0.110	0.008	0.008	0.066	7.23	0.08	0.781	1365	1.33
S-191010-02BA		<0.001	0.03	0.079	0.005	0.008	0.040	4.93	0.47	0.564	1190	0.78
S-191010-03BA		<0.001	0.05	0.076	0.003	0.005	0.021	2.15	0.21	0.451	2140	0.54
S-191010-04BA		<0.001	0.02	0.089	0.007	0.026	0.042	5.63	0.12	0.664	920	1.09
S-191010-05BA		<0.001	0.04	0.197	0.013	0.054	0.129	12.20	0.55	1.750	1600	2.71
S-191010-06BA		<0.001	<0.02	0.183	0.019	0.048	0.117	16.10	0.11	1.490	803	2.28
S-191010-07BA		<0.001	0.05	0.172	0.011	0.044	0.115	9.96	0.12	1.230	1060	2.07
S-191011-01BA		<0.001	<0.02	0.036	0.001	0.002	0.016	1.54	0.03	0.237	854	0.33
S-191011-02BA		<0.001	0.02	0.081	0.005	0.014	0.049	4.71	0.07	0.889	1410	0.90
S-191011-03BA		<0.001	0.03	0.124	0.008	0.045	0.073	8.20	0.07	0.884	1950	1.63
S-191011-04BA		<0.001	0.03	0.086	0.006	0.030	0.081	6.72	0.63	0.974	1955	1.28
S-191011-05BA		<0.001	<0.02	0.084	0.007	0.038	0.052	5.53	0.08	0.502	425	1.14

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

CERTIFICATE OF ANALYSIS VA19264844

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: The concentration of the reported result is based on the ashed sample. Weight of the sample and weight of the ash has not been factored in the reported concentration
ME-VEG41a

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

DISP-01	EXTRA-01	LOG-22	ME-VEG41a
VEG-ASH01	WEI-21		

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 14-NOV-2019
Account: RENGEO

CERTIFICATE VA19264848

Project: SADIM

This report is for 11 Sediment samples submitted to our lab in Vancouver, BC, Canada on 18-OCT-2019.

The following have access to data associated with this certificate:

RICHARD BILLINGSLEY	LEOPOLD LINDINGER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
AuME-TL43	25g Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 14-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19264848

Sample Description	Method	WEI-21	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
S-191010-01S		0.22	0.002	0.11	2.01	6.5	10	160	0.46	0.08	0.42	0.27	14.00	11.1	20	0.89
S-191010-02S		0.24	0.004	0.19	1.41	3.3	10	130	0.28	0.06	0.42	0.54	9.07	8.2	18	0.50
S-191010-03S		0.24	0.002	0.20	2.20	3.5	10	130	0.54	0.11	0.67	0.50	19.85	9.0	15	0.70
S-191010-04S		0.20	0.001	0.17	1.24	2.3	10	130	0.28	0.07	0.42	0.43	10.05	7.5	10	0.65
S-191010-05S		0.24	0.003	0.10	2.13	4.5	<10	90	0.44	0.09	0.30	0.13	6.73	8.0	12	1.07
S-191010-06S		0.20	0.003	0.14	1.80	3.4	10	130	0.36	0.08	0.35	0.17	9.09	10.1	17	0.88
S-191010-07S		0.28	0.001	0.17	1.60	6.1	10	140	0.40	0.08	0.36	0.13	9.07	12.5	13	1.00
S-191011-01S		0.22	0.002	0.03	1.31	3.1	10	140	0.37	0.08	0.35	0.08	9.40	7.5	6	0.48
S-191011-02S		0.22	0.001	0.11	1.89	6.0	10	170	0.45	0.10	0.21	0.07	9.71	8.2	7	0.99
S-191011-03S		0.24	0.003	0.08	1.76	7.6	10	170	0.45	0.10	0.31	0.09	9.67	9.6	10	0.88
S-191011-04S		0.22	0.003	0.18	1.79	10.9	10	100	0.40	0.10	0.18	0.13	8.20	9.1	11	1.28

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 14-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19264848

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
S-191010-01S		37.8	2.62	6.30	<0.05	0.08	0.03	0.022	0.06	5.5	11.1	0.47	872	0.79	0.04	0.81
S-191010-02S		24.6	2.23	4.78	<0.05	0.03	0.03	0.016	0.09	3.7	8.5	0.39	820	0.89	0.02	0.54
S-191010-03S		45.4	2.34	6.45	<0.05	0.25	0.04	0.025	0.04	7.9	11.4	0.37	818	0.64	0.02	1.03
S-191010-04S		22.2	1.82	4.56	<0.05	0.02	0.03	0.015	0.08	3.9	8.5	0.22	583	1.12	0.02	0.53
S-191010-05S		22.7	2.40	7.14	<0.05	0.11	0.05	0.020	0.03	3.0	9.0	0.21	548	0.63	0.02	1.31
S-191010-06S		30.3	2.59	6.30	<0.05	0.04	0.03	0.022	0.07	3.7	11.6	0.45	648	0.61	0.01	0.59
S-191010-07S		32.8	2.91	5.57	<0.05	0.02	0.03	0.025	0.05	3.7	10.3	0.28	430	1.24	0.01	0.72
S-191011-01S		20.4	2.20	5.09	<0.05	0.04	0.02	0.018	0.06	3.5	9.6	0.44	603	0.39	0.01	0.41
S-191011-02S		31.7	2.31	6.74	<0.05	0.09	0.03	0.023	0.05	3.7	12.3	0.31	692	0.55	0.01	0.43
S-191011-03S		43.2	2.68	6.17	<0.05	0.04	0.02	0.024	0.07	3.9	12.6	0.36	537	0.77	0.01	0.37
S-191011-04S		33.3	2.37	6.23	<0.05	0.12	0.05	0.023	0.05	3.4	12.0	0.36	597	0.90	0.01	0.60

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 14-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19264848

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
S-191010-01S		13.0	1440	6.4	7.5	<0.001	0.01	0.27	3.9	0.3	0.6	33.5	<0.01	0.05	0.7	0.071
S-191010-02S		9.9	700	8.5	5.9	<0.001	0.01	0.33	2.8	0.2	0.4	29.0	<0.01	0.08	0.5	0.073
S-191010-03S		10.3	310	11.8	6.0	<0.001	0.01	0.33	4.2	0.6	0.6	33.8	<0.01	0.05	1.2	0.074
S-191010-04S		7.7	800	4.4	5.9	<0.001	0.01	0.21	2.3	0.2	0.5	25.2	<0.01	0.02	0.5	0.062
S-191010-05S		8.2	1170	6.5	4.4	<0.001	0.01	0.29	2.2	0.2	0.6	17.5	<0.01	0.06	0.7	0.086
S-191010-06S		11.1	1040	5.8	7.6	<0.001	0.01	0.18	3.4	0.2	0.5	26.4	<0.01	0.03	0.6	0.072
S-191010-07S		14.6	350	5.6	6.2	<0.001	0.01	0.41	3.6	0.3	0.6	23.5	<0.01	0.06	0.5	0.054
S-191011-01S		4.2	800	4.1	5.4	<0.001	0.01	0.16	3.0	<0.2	0.5	46.4	<0.01	0.02	0.7	0.059
S-191011-02S		5.7	1140	4.2	5.6	<0.001	0.01	0.17	2.7	0.2	0.6	25.5	<0.01	0.03	1.0	0.036
S-191011-03S		8.0	640	4.0	6.5	<0.001	0.01	0.20	3.3	0.2	0.6	32.5	<0.01	0.03	0.8	0.047
S-191011-04S		7.9	1150	5.0	6.0	<0.001	0.01	0.21	2.8	0.2	0.5	14.3	<0.01	0.03	0.6	0.043

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 14-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19264848

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.05	0.05	2	0.5
S-191010-01S		0.06	0.38	60	0.08	4.32	77	2.9
S-191010-02S		0.04	0.23	58	0.07	2.61	92	1.1
S-191010-03S		0.06	0.57	52	0.06	8.24	74	10.9
S-191010-04S		0.03	0.22	44	0.06	3.02	77	1.1
S-191010-05S		0.05	0.32	60	0.09	2.07	66	4.7
S-191010-06S		0.05	0.28	68	0.06	2.74	86	1.7
S-191010-07S		0.05	0.27	62	0.07	2.83	58	1.1
S-191011-01S		0.04	0.28	70	0.06	2.54	65	1.9
S-191011-02S		0.06	0.33	63	0.06	2.44	65	3.6
S-191011-03S		0.06	0.31	75	0.05	2.76	60	1.7
S-191011-04S		0.05	0.29	70	0.08	2.40	64	3.8

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 14-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19264848

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
AuME-TL43	LOG-22	SCR-41	WEI-21

ALS Canada Ltd.
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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 18-NOV-2019
Account: RENGEO

CERTIFICATE VA19278584

Project: SADIM

This report is for 11 Soil samples submitted to our lab in Vancouver, BC, Canada on 18-OCT-2019.

The following have access to data associated with this certificate:

RICHARD BILLINGSLEY	LEOPOLD LINDINGER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
DISP-01	Disposal of all sample fractions

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS23	IONIC Leach - Complete PKG.	ICP-MS
pH-MS23	MS23 Leach pH	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 18-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19278584

Sample Description	Method	WEI-21	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Recvd Wt.	Ag	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.02	0.1	0.5	0.02	10	0.2	0.3	0.05	0.2	0.2	0.1	0.3	1	0.1	1
S-191010-01E		0.32	6.7	4.4	0.08	1670	3.0	<0.3	0.07	252	39.0	92.5	16.2	5	2.3	884
S-191010-02E		0.38	4.1	9.7	0.08	1680	1.2	<0.3	0.09	352	138.5	68.5	34.9	10	1.4	435
S-191010-03E		0.34	32.3	2.6	0.29	1500	<0.2	<0.3	0.08	524	28.2	18.8	35.5	1	1.2	1590
S-191010-04E		0.40	9.9	5.9	0.03	920	0.7	<0.3	0.10	312	62.3	32.2	11.8	2	1.6	270
S-191010-05E		0.36	2.5	8.2	0.06	860	2.8	<0.3	0.10	126.0	19.0	32.4	18.8	5	3.0	277
S-191010-06E		0.34	1.9	13.4	0.02	3540	4.5	0.5	0.13	218	32.3	77.3	78.2	26	3.5	613
S-191010-07E		0.36	15.4	7.7	0.10	2000	1.3	<0.3	0.05	303	10.7	65.9	47.9	6	2.4	431
S-191011-01E		0.42	7.3	8.5	0.07	1090	0.8	<0.3	0.08	306	11.9	45.7	8.1	2	1.7	333
S-191011-02E		0.34	10.1	13.8	0.05	2540	6.0	<0.3	0.05	81.9	7.2	197.5	21.5	7	6.6	415
S-191011-03E		0.38	14.7	5.8	0.24	4150	1.1	<0.3	0.10	300	7.6	86.1	14.6	3	3.6	610
S-191011-04E		0.30	3.1	25.2	0.04	2350	3.8	0.3	0.11	37.4	22.9	95.9	72.3	15	11.1	759

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Project: SADIM

CERTIFICATE OF ANALYSIS VA19278584

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li	Lu
	Units	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
	LOD	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.05	0.1	0.1	0.01	0.1	0.1	0.2	0.1
S-191010-01E		51.0	28.4	7.8	67.9	6.2	41.8	0.6	1.43	0.4	9.7	0.02	0.1	38.1	1.8	2.4
S-191010-02E		15.1	7.8	2.7	47.6	3.9	13.5	0.3	1.46	0.4	2.8	0.02	<0.1	20.5	3.1	0.7
S-191010-03E		5.7	2.6	1.5	10.8	0.6	8.2	0.1	0.64	0.2	1.0	0.02	<0.1	10.2	<0.2	0.2
S-191010-04E		10.6	5.2	2.1	31.6	2.1	10.2	0.2	0.87	0.4	1.9	0.02	<0.1	12.4	1.1	0.4
S-191010-05E		8.2	4.4	1.3	48.6	11.2	7.1	0.2	1.31	0.8	1.5	0.02	0.1	11.2	2.6	0.3
S-191010-06E		26.5	16.4	3.0	138.0	13.3	16.0	0.7	3.70	0.8	5.5	0.04	0.2	21.2	8.5	1.7
S-191010-07E		12.8	5.6	3.0	44.2	2.4	13.1	0.2	1.06	0.6	2.2	0.02	0.1	18.1	0.8	0.4
S-191011-01E		10.2	4.9	2.1	28.5	2.1	10.8	0.2	1.35	0.7	1.8	0.02	<0.1	15.0	1.1	0.4
S-191011-02E		30.4	16.0	5.7	80.3	12.8	26.5	0.7	5.68	0.6	5.4	0.03	0.2	50.0	5.2	1.5
S-191011-03E		17.8	8.3	3.5	36.6	2.0	16.9	0.2	1.45	0.5	3.1	0.03	0.1	26.4	0.6	0.6
S-191011-04E		32.8	18.5	4.0	97.6	17.0	20.2	0.9	4.10	1.1	6.2	0.04	0.3	23.7	12.9	1.6

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 18-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19278584

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Sb	Sc	Se
	Units	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.01	0.01	0.5	0.1	0.1	1	0.1	0.05	0.1	0.1	0.1	0.01	0.5	1	2
S-191010-01E		36.9	4.92	1.2	0.8	90.3	82	142.5	<0.05	17.3	<0.1	162.0	<0.01	<0.5	45	<2
S-191010-02E		51.0	23.0	7.8	1.1	33.5	105	216	<0.05	7.3	<0.1	112.5	<0.01	0.5	41	3
S-191010-03E		37.9	6.10	8.2	0.3	19.2	20	9.8	0.10	3.6	<0.1	110.0	<0.01	<0.5	5	5
S-191010-04E		25.2	6.14	17.9	0.8	21.1	55	71.6	<0.05	4.6	<0.1	148.0	<0.01	<0.5	22	4
S-191010-05E		14.80	6.02	2.0	1.3	19.7	53	162.0	0.13	4.4	<0.1	117.0	<0.01	<0.5	15	2
S-191010-06E		47.1	16.45	1.7	2.7	35.3	99	258	<0.05	8.0	<0.1	170.0	<0.01	<0.5	69	2
S-191010-07E		28.6	7.12	5.9	0.6	29.8	121	84.3	0.14	6.2	<0.1	86.4	<0.01	<0.5	32	<2
S-191011-01E		26.9	5.19	7.5	1.2	25.2	33	36.2	0.36	5.5	<0.1	162.5	0.01	<0.5	15	<2
S-191011-02E		9.55	8.24	2.3	2.8	80.2	40	117.5	0.10	18.1	0.1	180.5	<0.01	<0.5	44	<2
S-191011-03E		28.9	3.22	5.0	0.5	39.3	32	41.5	<0.05	8.5	<0.1	139.5	<0.01	<0.5	33	<2
S-191011-04E		11.00	8.50	2.8	2.4	46.9	75	175.0	<0.05	9.9	<0.1	241	<0.01	<0.5	53	<2

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680 DAIRY RD
KAMLOOPS BC V2B 8N5

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Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19278584

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb
	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.1	0.2	1	0.05	0.1	0.5	0.02	5	0.05	0.1	0.05	0.2	0.1	0.1	0.1
S-191010-01E		28.1	<0.2	994	0.09	7.3	<0.5	6.95	188	0.17	3.1	6.74	8.3	0.1	299	19.0
S-191010-02E		10.0	<0.2	907	0.08	2.3	<0.5	6.45	260	0.10	1.0	3.90	13.2	0.3	72.7	5.7
S-191010-03E		6.3	<0.2	1320	0.05	1.0	<0.5	1.84	22	0.15	0.3	3.65	2.8	0.1	34.8	1.6
S-191010-04E		7.5	<0.2	612	0.05	1.6	0.5	2.30	154	0.06	0.6	3.34	5.5	0.3	55.3	3.7
S-191010-05E		5.5	0.3	302	0.11	1.2	<0.5	5.67	479	0.14	0.5	3.78	19.3	0.1	43.4	2.8
S-191010-06E		11.8	0.3	947	0.17	3.5	<0.5	14.20	840	0.33	2.1	6.16	36.4	0.3	139.5	12.0
S-191010-07E		10.7	<0.2	543	<0.05	2.1	<0.5	5.42	138	0.13	0.6	5.20	5.3	0.1	54.1	3.3
S-191011-01E		8.1	<0.2	1090	0.06	1.6	<0.5	5.06	120	0.14	0.6	5.18	6.5	0.4	50.8	3.5
S-191011-02E		22.9	0.3	403	0.18	4.4	<0.5	21.9	712	0.26	2.1	7.99	27.1	0.3	151.0	12.1
S-191011-03E		13.2	<0.2	1240	0.22	2.8	<0.5	7.29	84	0.18	0.9	6.92	5.6	0.1	82.4	5.6
S-191011-04E		14.2	0.7	213	0.16	4.2	<0.5	14.70	951	0.39	2.4	6.22	54.8	0.4	159.5	14.5

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CERTIFICATE OF ANALYSIS VA19278584

Sample Description	Method Analyte Units LOD	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
S-191010-01E		440	49.0	6.4
S-191010-02E		4640	52.9	6.6
S-191010-03E		70	28.8	8.0
S-191010-04E		540	28.0	7.1
S-191010-05E		490	53.2	6.6
S-191010-06E		2770	138.0	5.6
S-191010-07E		260	36.8	7.2
S-191011-01E		510	53.1	7.4
S-191011-02E		330	203	6.7
S-191011-03E		240	59.2	7.3
S-191011-04E		750	145.0	5.8

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KAMLOOPS BC V2B 8N5

Finalized Date: 18-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19278584

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
DISP-01	LOG-22	ME-MS23	pH-MS23
WEI-21			

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 23-NOV-2019
Account: RENGEO

CERTIFICATE VA19278589

Project: SADIM

This report is for 12 Other samples submitted to our lab in Vancouver, BC, Canada on 18-OCT-2019.

The following have access to data associated with this certificate:

RICHARD BILLINGSLEY	LEOPOLD LINDINGER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
EXTRA-01	Extra Sample received in Shipment
DISP-01	Disposal of all sample fractions
VEG-MILL01	Maceration of dry plant material

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS23	IONIC Leach - Complete PKG.	ICP-MS
pH-MS23	MS23 Leach pH	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 23-NOV-2019
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Project: SADIM

CERTIFICATE OF ANALYSIS VA19278589

Sample Description	Method	WEI-21	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Recvd Wt.	Ag	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.02	0.1	0.5	0.02	10	0.2	0.3	0.05	0.2	0.2	0.1	0.3	1	0.1	1
S-191010-01BE		0.32	0.1	22.8	0.02	1160	<0.2	<0.3	<0.05	479	52.4	6.6	34.3	10	0.5	2970
S-191010-02BE		0.32	0.2	12.9	<0.02	2440	0.2	<0.3	0.15	332	204	6.7	1035	110	0.4	2010
S-191010-03BE		0.40	<0.1	31.3	0.05	1160	0.3	0.3	<0.05	521	149.5	3.9	56.9	12	0.4	1770
S-191010-04BE		0.28	0.2	108.5	<0.02	3060	0.2	0.5	0.21	408	99.5	12.4	46.2	17	0.6	2430
S-191010-05BE		0.38	0.2	23.6	<0.02	1770	0.3	1.0	0.34	470	186.0	15.4	76.5	21	1.5	2490
S-191010-06BE		0.38	0.2	14.7	<0.02	3640	0.2	<0.3	0.14	370	83.3	8.1	42.6	14	1.1	3000
S-191010-07BE		0.38	<0.1	26.1	<0.02	1690	<0.2	<0.3	0.17	336	32.9	6.2	20.0	13	4.8	3450
S-191011-01BE		0.40	0.3	27.9	0.02	5830	0.2	0.6	<0.05	631	63.3	9.6	25.3	10	0.4	2290
S-191011-02BE		0.26	0.1	50.8	<0.02	6080	0.4	0.7	0.23	366	27.8	14.3	25.1	11	1.1	2670
S-191011-03BE		0.40	0.3	79.5	0.04	2730	0.5	0.5	0.40	530	85.2	12.1	25.6	6	0.6	2790
S-191011-04BE		0.28	0.1	25.9	0.04	1430	0.2	0.3	0.17	460	20.4	8.5	32.6	10	0.8	3430
S-191011-05BE		0.30	0.1	16.5	0.06	1600	0.6	1.9	0.15	444	16.8	28.2	187.0	153	2.7	9190

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Project: SADIM

CERTIFICATE OF ANALYSIS VA19278589

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li	Lu
	Units	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
	LOD	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.05	0.1	0.1	0.01	0.1	0.1	0.2	0.1
S-191010-01BE		0.6	0.3	0.2	0.6	1.0	0.8	0.1	<0.05	0.9	0.1	0.01	<0.1	3.3	1.1	<0.1
S-191010-02BE		0.9	0.4	0.2	0.9	1.1	0.5	0.6	<0.05	<0.1	0.1	0.01	<0.1	3.4	1.6	0.1
S-191010-03BE		0.4	0.2	0.1	1.1	1.7	0.5	0.3	<0.05	<0.1	<0.1	0.01	<0.1	3.7	1.6	<0.1
S-191010-04BE		1.1	0.5	0.3	3.7	2.1	1.4	0.1	0.06	1.1	0.2	0.05	<0.1	6.9	4.1	<0.1
S-191010-05BE		1.3	0.6	0.4	3.1	1.7	1.8	0.2	<0.05	0.5	0.2	0.03	0.1	7.6	2.7	<0.1
S-191010-06BE		0.7	0.4	0.2	1.7	1.6	1.3	<0.1	0.08	0.5	0.3	0.01	<0.1	4.5	2.1	0.1
S-191010-07BE		0.6	0.4	0.2	1.7	1.0	1.0	0.7	<0.05	0.5	0.1	0.02	<0.1	3.0	1.6	<0.1
S-191011-01BE		0.6	0.5	0.2	1.3	2.0	0.8	0.3	<0.05	0.2	0.2	0.02	<0.1	5.5	2.5	<0.1
S-191011-02BE		1.9	0.8	0.5	3.4	2.3	1.9	0.2	0.14	0.2	0.3	0.03	<0.1	8.2	3.3	0.1
S-191011-03BE		1.2	0.6	0.3	2.2	2.1	1.8	0.2	<0.05	1.3	0.2	0.06	0.1	6.7	6.5	<0.1
S-191011-04BE		0.7	0.3	0.3	2.6	1.3	0.9	0.2	<0.05	<0.1	0.2	0.02	0.1	4.9	1.0	0.1
S-191011-05BE		2.3	0.9	0.8	10.7	2.0	2.8	0.2	<0.05	0.8	0.3	0.01	0.1	13.8	1.5	0.2

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Finalized Date: 23-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19278589

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Sb	Sc	Se
	Units	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.01	0.01	0.5	0.1	0.1	1	0.1	0.05	0.1	0.1	0.1	0.01	0.5	1	2
S-191010-01BE		122.5	23.8	<0.5	0.2	4.0	18	113.0	0.06	0.9	<0.1	179.5	<0.01	0.8	10	20
S-191010-02BE		77.3	29.3	0.9	0.2	3.2	129	105.0	0.07	0.7	<0.1	97.2	0.02	1.1	11	31
S-191010-03BE		92.1	54.2	0.6	0.1	2.5	14	53.0	0.10	0.6	<0.1	201	<0.01	1.1	7	30
S-191010-04BE		86.7	49.9	<0.5	0.2	6.9	23	186.0	0.08	1.4	<0.1	119.0	<0.01	1.7	7	21
S-191010-05BE		85.5	34.0	<0.5	<0.1	7.3	50	222	0.05	1.8	0.1	186.5	<0.01	0.9	9	4
S-191010-06BE		54.6	33.6	0.9	0.1	4.5	14	51.1	<0.05	1.1	0.3	172.5	0.02	0.8	13	<2
S-191010-07BE		55.4	16.75	<0.5	<0.1	4.8	18	79.1	0.25	0.8	0.1	292	<0.01	1.5	8	16
S-191011-01BE		73.2	57.2	0.5	0.1	5.7	11	158.0	0.11	1.2	0.3	122.5	0.03	<0.5	6	14
S-191011-02BE		52.4	37.5	0.9	<0.1	8.9	22	237	0.11	2.1	0.1	145.5	<0.01	1.3	9	12
S-191011-03BE		103.5	47.4	<0.5	<0.1	6.5	14	99.9	<0.05	1.6	0.3	114.5	<0.01	0.5	7	25
S-191011-04BE		55.8	16.40	0.5	0.1	4.6	15	138.0	0.18	1.1	<0.1	175.0	<0.01	0.5	6	30
S-191011-05BE		77.9	17.70	2.0	<0.1	13.0	56	233	0.13	3.5	<0.1	339	0.05	0.5	7	9

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 23-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19278589

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb
	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.1	0.2	1	0.05	0.1	0.5	0.02	5	0.05	0.1	0.05	0.2	0.1	0.1	0.1
S-191010-01BE		1.7	0.6	1120	<0.05	0.1	<0.5	0.19	6	0.24	<0.1	0.26	0.7	0.9	2.8	0.3
S-191010-02BE		1.1	1.3	1080	<0.05	0.2	<0.5	0.23	7	0.12	0.1	0.23	<0.2	11.0	2.7	0.3
S-191010-03BE		0.7	1.2	824	<0.05	<0.1	<0.5	0.15	31	0.16	0.1	0.11	0.3	0.3	3.0	0.2
S-191010-04BE		1.8	0.2	1750	<0.05	0.1	<0.5	1.13	13	0.32	0.1	0.45	1.8	1.1	5.6	0.3
S-191010-05BE		2.6	0.9	792	<0.05	0.2	<0.5	0.70	9	0.28	0.1	0.44	0.7	1.5	7.2	0.4
S-191010-06BE		1.5	0.3	1190	<0.05	0.1	<0.5	0.25	6	0.39	0.1	0.26	<0.2	0.7	4.3	0.3
S-191010-07BE		1.2	0.4	663	<0.05	0.2	<0.5	0.36	21	0.20	<0.1	0.23	0.7	0.1	3.6	0.1
S-191011-01BE		2.1	0.9	3520	<0.05	0.2	<0.5	0.37	21	0.40	0.1	0.24	<0.2	<0.1	4.6	0.3
S-191011-02BE		2.6	0.5	1470	<0.05	0.3	<0.5	0.48	8	0.23	0.1	0.35	0.9	0.6	9.3	0.7
S-191011-03BE		2.6	<0.2	1120	<0.05	0.1	<0.5	1.24	30	0.31	0.1	0.82	2.0	0.2	7.1	0.2
S-191011-04BE		1.4	0.8	718	<0.05	0.1	<0.5	0.24	5	0.31	<0.1	0.35	1.1	0.4	4.1	0.3
S-191011-05BE		3.2	0.2	1200	0.17	0.4	<0.5	1.38	8	0.51	0.2	2.69	8.7	15.0	13.3	1.2

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680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 23-NOV-2019
Account: RENGEO

Project: SADIM

CERTIFICATE OF ANALYSIS VA19278589

Sample Description	Method Analyte Units LOD	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
S-191010-01BE		13600	0.6	5.7
S-191010-02BE		6310	<0.1	5.9
S-191010-03BE		25200	<0.1	5.4
S-191010-04BE		12900	2.0	5.4
S-191010-05BE		8980	1.2	5.5
S-191010-06BE		6580	0.6	5.6
S-191010-07BE		5730	0.3	5.5
S-191011-01BE		16800	1.0	5.4
S-191011-02BE		10700	2.0	5.4
S-191011-03BE		19100	1.4	5.2
S-191011-04BE		13500	0.4	5.3
S-191011-05BE		5010	1.2	5.1

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Finalized Date: 23-NOV-2019
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CERTIFICATE OF ANALYSIS VA19278589

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
DISP-01	EXTRA-01	LOG-22	ME-MS23
pH-MS23	VEG-MILL01	WEI-21	

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

QC CERTIFICATE VA19264844

Project: SADM

This report is for 12 Vegetation samples submitted to our lab in Vancouver, BC, Canada on 18-OCT-2019.

The following have access to data associated with this certificate:

RICHARD BILLINGSLEY	LEOPOLD LINDINGER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
EXTRA-01	Extra Sample received in Shipment
DISP-01	Disposal of all sample fractions
LOG-22	Sample login - Rcd w/o BarCode
VEG-ASH01	Controlled Ignition - Veg Samp. @ 475C

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-VEG41a	Super Trace - Ashed Vegetation Samples

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

QC CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.0002	0.001	0.01	0.01	1	0.1	0.01	0.001	0.01	0.001	0.003	0.002	0.01	0.005	0.01
STANDARDS																
VEG-ASH-10		0.0012	0.211	0.09	1.21	785	282	0.02	0.210	17.50	0.635	0.830	1.190	2.14	5.98	78.7
VEG-ASH-10		0.0011	0.208	0.09	1.01	743	270	0.02	0.079	17.30	0.653	0.845	1.155	1.95	5.92	72.8
Target Range - Lower Bound		0.0006	0.202	0.07	1.04	732	255	<0.01	0.072	16.60	0.622	0.784	1.165	1.94	5.42	74.3
Upper Bound		0.0015	0.250	0.12	1.29	897	346	0.04	0.090	20.3	0.762	0.964	1.430	2.39	6.63	85.5
VEG-ASH-12		0.0003	0.211	0.06	0.93	741	270	0.02	0.052	16.15	0.417	0.640	0.962	1.65	6.18	68.4
VEG-ASH-12		0.0003	0.206	0.06	1.06	746	276	0.02	0.056	16.75	0.442	0.620	1.060	1.70	6.19	73.1
Target Range - Lower Bound		<0.0002	0.178	0.04	0.87	680	238	<0.01	0.048	14.50	0.411	0.605	0.913	1.66	5.96	64.9
Upper Bound		0.0004	0.220	0.08	1.08	833	323	0.04	0.060	17.70	0.505	0.747	1.120	2.06	7.29	74.7
BLANKS																
BLANK		<0.0002	<0.001	<0.01	0.01	2	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.002	0.01	<0.005	0.01
BLANK		<0.0002	<0.001	<0.01	0.01	<2	<0.5	<0.01	0.001	<0.01	0.001	<0.003	<0.002	<0.01	<0.005	0.01
Target Range - Lower Bound		<0.0002	<0.001	<0.01	<0.01	<1	<0.1	<0.01	<0.001	<0.01	<0.001	<0.003	<0.002	<0.01	<0.005	<0.01
Upper Bound		0.0004	0.002	0.02	0.02	2	0.2	0.02	0.002	0.02	0.002	0.006	0.004	0.02	0.010	0.02
DUPLICATES																
ORIGINAL		0.0051	0.705	0.47	2.49	468	1450	0.17	0.131	21.4	1.125	8.34	2.31	5.62	4.36	140.0
DUP		0.0036	0.687	0.48	2.47	469	1460	0.18	0.129	21.5	1.115	8.26	2.27	5.54	4.29	141.5
Target Range - Lower Bound		0.0039	0.660	0.44	2.35	444	1345	0.16	0.123	20.4	1.065	7.88	2.17	5.29	4.10	136.0
Upper Bound		0.0048	0.732	0.51	2.61	493	1565	0.19	0.138	22.5	1.175	8.72	2.41	5.87	4.55	145.5

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

QC CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	1	0.004	0.005	0.002	0.001	0.005	0.01	0.002	0.1	0.001	0.1	0.01	0.001	0.002	0.04
STANDARDS																
VEG-ASH-10		1100	0.225	<0.005	0.019	<0.001	0.006	>10.0	0.466	1.5	4.68	19350	0.90	0.051	0.064	23.4
VEG-ASH-10		1100	0.212	<0.005	0.020	<0.001	0.006	>10.0	0.441	1.5	4.50	18350	0.93	0.055	0.058	30.7
Target Range - Lower Bound		1040	0.205	<0.005	0.012	<0.001	<0.005	15.20	0.426	1.2	4.43	18600	0.83	0.049	0.054	22.5
Upper Bound		1270	0.259	0.016	0.022	0.003	0.017	10.00	0.525	1.8	5.42	22700	1.04	0.063	0.070	27.6
VEG-ASH-12		932	0.158	0.005	0.012	0.001	0.008	>10.0	0.364	1.6	4.52	15300	0.97	0.041	0.045	16.40
VEG-ASH-12		998	0.175	<0.005	0.013	0.004	0.007	>10.0	0.385	1.9	4.64	15450	1.06	0.043	0.047	16.00
Target Range - Lower Bound		839	0.131	<0.005	0.006	<0.001	<0.005	13.50	0.327	1.5	4.14	14150	0.91	0.036	0.039	15.25
Upper Bound		1025	0.169	0.010	0.015	0.002	0.014	10.00	0.404	2.1	5.06	17300	1.13	0.046	0.052	18.70
BLANKS																
BLANK		<1	<0.004	<0.005	<0.002	<0.001	<0.005	<0.01	<0.002	<0.1	<0.010	0.1	<0.01	<0.001	<0.002	<0.04
BLANK		<1	<0.004	<0.005	<0.002	0.003	<0.005	<0.01	<0.002	<0.1	<0.010	0.1	<0.01	<0.001	<0.002	<0.04
Target Range - Lower Bound		<1	<0.004	<0.005	<0.002	<0.001	<0.005	<0.01	<0.002	<0.1	<0.001	<0.1	<0.01	<0.001	<0.002	<0.04
Upper Bound		2	0.008	0.010	0.004	0.002	0.010	0.02	0.004	0.2	0.002	0.2	0.02	0.002	0.004	0.08
DUPLICATES																
ORIGINAL		5100	1.250	0.018	0.088	0.025	0.009	>10.0	4.53	4.0	2.21	39000	0.93	0.072	0.273	8.19
DUP		5100	1.220	0.014	0.090	0.005	0.010	>10.0	4.48	4.0	2.23	39400	0.90	0.084	0.259	8.64
Target Range - Lower Bound		4840	1.170	0.010	0.083	0.013	<0.005	9.49	4.28	3.7	2.11	37200	0.86	0.073	0.251	7.95
Upper Bound		5360	1.300	0.022	0.095	0.017	0.010	10.00	4.73	4.3	2.33	41200	0.97	0.083	0.281	8.88

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

QC CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.01	0.001	0.002	0.01	0.001	0.01	0.01	0.01	0.005	0.01	0.02	0.001	0.02	0.002
STANDARDS																
VEG-ASH-10		4.96	5.97	0.002	<0.002	384	0.002	1.62	0.20	3.40	0.116	0.20	231	<0.005	<0.02	0.099
VEG-ASH-10		4.64	5.95	<0.001	<0.002	357	0.002	1.62	0.20	3.19	0.108	0.21	218	<0.005	<0.02	0.102
Target Range - Lower Bound		4.86	5.66	<0.001	<0.002	351	<0.001	1.55	0.16	2.29	0.137	0.18	217	<0.001	<0.02	0.093
Upper Bound		5.00	6.94	0.004	0.006	429	0.004	1.91	0.24	2.82	0.179	0.24	265	0.002	0.07	0.118
VEG-ASH-12		4.36	4.65	<0.001	<0.002	421	0.001	1.33	0.19	2.89	0.105	0.16	206	<0.005	<0.02	0.072
VEG-ASH-12		4.39	4.69	<0.001	<0.002	412	0.001	1.40	0.22	2.88	0.099	0.16	207	<0.005	<0.02	0.075
Target Range - Lower Bound		4.02	4.32	<0.001	<0.002	382	<0.001	1.25	0.17	2.82	0.078	0.15	189.5	<0.001	<0.02	0.066
Upper Bound		4.92	5.30	0.003	0.004	466	0.003	1.55	0.25	3.47	0.108	0.21	231	0.002	0.04	0.086
BLANKS																
BLANK		<0.001	<0.01	<0.001	<0.002	<0.01	<0.001	<0.01	<0.01	<0.01	0.005	<0.01	0.02	<0.005	<0.02	<0.002
BLANK		<0.001	<0.01	<0.001	<0.002	0.01	<0.001	<0.01	0.01	0.01	<0.005	<0.01	<0.02	<0.005	<0.02	<0.002
Target Range - Lower Bound		<0.001	<0.01	<0.001	<0.002	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.02	<0.001	<0.02	<0.002
Upper Bound		0.002	0.02	0.002	0.004	0.02	0.002	0.02	0.02	0.02	0.010	0.02	0.04	0.002	0.04	0.004
DUPLICATES																
ORIGINAL		2.78	12.20	<0.001	<0.002	264	0.001	0.74	1.87	2.07	0.707	0.66	282	0.006	0.03	0.889
DUP		2.86	12.10	<0.001	<0.002	262	<0.001	0.75	2.19	1.92	0.724	0.67	285	0.007	<0.02	0.863
Target Range - Lower Bound		2.68	11.55	<0.001	<0.002	250	<0.001	0.70	1.87	1.89	0.675	0.62	269	0.005	<0.02	0.830
Upper Bound		2.96	12.75	0.002	0.004	276	0.002	0.79	2.19	2.10	0.756	0.71	298	0.008	0.04	0.922

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Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

QC CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.002	0.005	0.05	0.01	0.003	0.1	0.02
STANDARDS									
VEG-ASH-10		0.003	0.022	0.053	1.88	0.08	0.253	1265	0.64
VEG-ASH-10		0.003	0.024	0.045	1.69	0.09	0.238	1200	0.71
Target Range - Lower Bound		<0.001	0.020	0.036	1.56	0.05	0.222	1180	0.54
Upper Bound		0.005	0.034	0.060	2.02	0.11	0.278	1445	0.77
VEG-ASH-12		0.002	0.036	0.033	1.31	0.08	0.183	1235	0.41
VEG-ASH-12		0.002	0.048	0.033	1.41	0.07	0.187	1245	0.42
Target Range - Lower Bound		<0.001	0.034	0.021	1.22	0.09	0.175	1140	0.34
Upper Bound		0.004	0.050	0.045	1.60	0.15	0.221	1390	0.51
BLANKS									
BLANK		<0.001	<0.002	<0.005	0.14	<0.01	<0.003	0.1	<0.02
BLANK		<0.001	<0.002	<0.005	0.09	<0.01	<0.003	<0.1	<0.02
Target Range - Lower Bound		<0.001	<0.002	<0.005	<0.05	<0.01	<0.003	<0.1	<0.02
Upper Bound		0.002	0.004	0.010	0.10	0.02	0.006	0.2	0.04
DUPLICATES									
ORIGINAL		0.013	0.085	0.237	11.00	0.25	2.54	2250	2.92
DUP		0.013	0.085	0.239	10.75	0.23	2.50	2280	3.06
Target Range - Lower Bound		0.011	0.077	0.221	10.30	0.21	2.39	2150	2.75
Upper Bound		0.015	0.093	0.255	11.45	0.27	2.65	2380	3.23

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

QC CERTIFICATE OF ANALYSIS VA19264844

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: The concentration of the reported result is based on the ashed sample. Weight of the sample and weight of the ash has not been factored in the reported concentration
ME-VEG41a

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

DISP-01	EXTRA-01	LOG-22	ME-VEG41a
VEG-ASH01	WEI-21		

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

QC CERTIFICATE VA19264844

Project: SADM

This report is for 12 Vegetation samples submitted to our lab in Vancouver, BC, Canada on 18-OCT-2019.

The following have access to data associated with this certificate:

RICHARD BILLINGSLEY	LEOPOLD LINDINGER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
EXTRA-01	Extra Sample received in Shipment
DISP-01	Disposal of all sample fractions
LOG-22	Sample login - Rcd w/o BarCode
VEG-ASH01	Controlled Ignition - Veg Samp. @ 475C

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-VEG41a	Super Trace - Ashed Vegetation Samples

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

QC CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.0002	0.001	0.01	0.01	1	0.1	0.01	0.001	0.01	0.001	0.003	0.002	0.01	0.005	0.01
STANDARDS																
VEG-ASH-10		0.0012	0.211	0.09	1.21	785	282	0.02	0.210	17.50	0.635	0.830	1.190	2.14	5.98	78.7
VEG-ASH-10		0.0011	0.208	0.09	1.01	743	270	0.02	0.079	17.30	0.653	0.845	1.155	1.95	5.92	72.8
Target Range - Lower Bound		0.0006	0.202	0.07	1.04	732	255	<0.01	0.072	16.60	0.622	0.784	1.165	1.94	5.42	74.3
Upper Bound		0.0015	0.250	0.12	1.29	897	346	0.04	0.090	20.3	0.762	0.964	1.430	2.39	6.63	85.5
VEG-ASH-12		0.0003	0.211	0.06	0.93	741	270	0.02	0.052	16.15	0.417	0.640	0.962	1.65	6.18	68.4
VEG-ASH-12		0.0003	0.206	0.06	1.06	746	276	0.02	0.056	16.75	0.442	0.620	1.060	1.70	6.19	73.1
Target Range - Lower Bound		<0.0002	0.178	0.04	0.87	680	238	<0.01	0.048	14.50	0.411	0.605	0.913	1.66	5.96	64.9
Upper Bound		0.0004	0.220	0.08	1.08	833	323	0.04	0.060	17.70	0.505	0.747	1.120	2.06	7.29	74.7
BLANKS																
BLANK		<0.0002	<0.001	<0.01	0.01	2	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.002	0.01	<0.005	0.01
BLANK		<0.0002	<0.001	<0.01	0.01	<2	<0.5	<0.01	0.001	<0.01	0.001	<0.003	<0.002	<0.01	<0.005	0.01
Target Range - Lower Bound		<0.0002	<0.001	<0.01	<0.01	<1	<0.1	<0.01	<0.001	<0.01	<0.001	<0.003	<0.002	<0.01	<0.005	<0.01
Upper Bound		0.0004	0.002	0.02	0.02	2	0.2	0.02	0.002	0.02	0.002	0.006	0.004	0.02	0.010	0.02
DUPLICATES																
ORIGINAL		0.0051	0.705	0.47	2.49	468	1450	0.17	0.131	21.4	1.125	8.34	2.31	5.62	4.36	140.0
DUP		0.0036	0.687	0.48	2.47	469	1460	0.18	0.129	21.5	1.115	8.26	2.27	5.54	4.29	141.5
Target Range - Lower Bound		0.0039	0.660	0.44	2.35	444	1345	0.16	0.123	20.4	1.065	7.88	2.17	5.29	4.10	136.0
Upper Bound		0.0048	0.732	0.51	2.61	493	1565	0.19	0.138	22.5	1.175	8.72	2.41	5.87	4.55	145.5

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

QC CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	1	0.004	0.005	0.002	0.001	0.005	0.01	0.002	0.1	0.001	0.1	0.01	0.001	0.002	0.04
STANDARDS																
VEG-ASH-10		1100	0.225	<0.005	0.019	<0.001	0.006	>10.0	0.466	1.5	4.68	19350	0.90	0.051	0.064	23.4
VEG-ASH-10		1100	0.212	<0.005	0.020	<0.001	0.006	>10.0	0.441	1.5	4.50	18350	0.93	0.055	0.058	30.7
Target Range - Lower Bound		1040	0.205	<0.005	0.012	<0.001	<0.005	15.20	0.426	1.2	4.43	18600	0.83	0.049	0.054	22.5
Upper Bound		1270	0.259	0.016	0.022	0.003	0.017	10.00	0.525	1.8	5.42	22700	1.04	0.063	0.070	27.6
VEG-ASH-12		932	0.158	0.005	0.012	0.001	0.008	>10.0	0.364	1.6	4.52	15300	0.97	0.041	0.045	16.40
VEG-ASH-12		998	0.175	<0.005	0.013	0.004	0.007	>10.0	0.385	1.9	4.64	15450	1.06	0.043	0.047	16.00
Target Range - Lower Bound		839	0.131	<0.005	0.006	<0.001	<0.005	13.50	0.327	1.5	4.14	14150	0.91	0.036	0.039	15.25
Upper Bound		1025	0.169	0.010	0.015	0.002	0.014	10.00	0.404	2.1	5.06	17300	1.13	0.046	0.052	18.70
BLANKS																
BLANK		<1	<0.004	<0.005	<0.002	<0.001	<0.005	<0.01	<0.002	<0.1	<0.010	0.1	<0.01	<0.001	<0.002	<0.04
BLANK		<1	<0.004	<0.005	<0.002	0.003	<0.005	<0.01	<0.002	<0.1	<0.010	0.1	<0.01	<0.001	<0.002	<0.04
Target Range - Lower Bound		<1	<0.004	<0.005	<0.002	<0.001	<0.005	<0.01	<0.002	<0.1	<0.001	<0.1	<0.01	<0.001	<0.002	<0.04
Upper Bound		2	0.008	0.010	0.004	0.002	0.010	0.02	0.004	0.2	0.002	0.2	0.02	0.002	0.004	0.08
DUPLICATES																
ORIGINAL		5100	1.250	0.018	0.088	0.025	0.009	>10.0	4.53	4.0	2.21	39000	0.93	0.072	0.273	8.19
DUP		5100	1.220	0.014	0.090	0.005	0.010	>10.0	4.48	4.0	2.23	39400	0.90	0.084	0.259	8.64
Target Range - Lower Bound		4840	1.170	0.010	0.083	0.013	<0.005	9.49	4.28	3.7	2.11	37200	0.86	0.073	0.251	7.95
Upper Bound		5360	1.300	0.022	0.095	0.017	0.010	10.00	4.73	4.3	2.33	41200	0.97	0.083	0.281	8.88

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

QC CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.01	0.001	0.002	0.01	0.001	0.01	0.01	0.01	0.005	0.01	0.02	0.001	0.02	0.002
STANDARDS																
VEG-ASH-10		4.96	5.97	0.002	<0.002	384	0.002	1.62	0.20	3.40	0.116	0.20	231	<0.005	<0.02	0.099
VEG-ASH-10		4.64	5.95	<0.001	<0.002	357	0.002	1.62	0.20	3.19	0.108	0.21	218	<0.005	<0.02	0.102
Target Range - Lower Bound		4.86	5.66	<0.001	<0.002	351	<0.001	1.55	0.16	2.29	0.137	0.18	217	<0.001	<0.02	0.093
Upper Bound		5.00	6.94	0.004	0.006	429	0.004	1.91	0.24	2.82	0.179	0.24	265	0.002	0.07	0.118
VEG-ASH-12		4.36	4.65	<0.001	<0.002	421	0.001	1.33	0.19	2.89	0.105	0.16	206	<0.005	<0.02	0.072
VEG-ASH-12		4.39	4.69	<0.001	<0.002	412	0.001	1.40	0.22	2.88	0.099	0.16	207	<0.005	<0.02	0.075
Target Range - Lower Bound		4.02	4.32	<0.001	<0.002	382	<0.001	1.25	0.17	2.82	0.078	0.15	189.5	<0.001	<0.02	0.066
Upper Bound		4.92	5.30	0.003	0.004	466	0.003	1.55	0.25	3.47	0.108	0.21	231	0.002	0.04	0.086
BLANKS																
BLANK		<0.001	<0.01	<0.001	<0.002	<0.01	<0.001	<0.01	<0.01	<0.01	0.005	<0.01	0.02	<0.005	<0.02	<0.002
BLANK		<0.001	<0.01	<0.001	<0.002	0.01	<0.001	<0.01	0.01	0.01	<0.005	<0.01	<0.02	<0.005	<0.02	<0.002
Target Range - Lower Bound		<0.001	<0.01	<0.001	<0.002	<0.01	<0.001	<0.01	<0.01	<0.01	<0.005	<0.01	<0.02	<0.001	<0.02	<0.002
Upper Bound		0.002	0.02	0.002	0.004	0.02	0.002	0.02	0.02	0.02	0.010	0.02	0.04	0.002	0.04	0.004
DUPLICATES																
ORIGINAL		2.78	12.20	<0.001	<0.002	264	0.001	0.74	1.87	2.07	0.707	0.66	282	0.006	0.03	0.889
DUP		2.86	12.10	<0.001	<0.002	262	<0.001	0.75	2.19	1.92	0.724	0.67	285	0.007	<0.02	0.863
Target Range - Lower Bound		2.68	11.55	<0.001	<0.002	250	<0.001	0.70	1.87	1.89	0.675	0.62	269	0.005	<0.02	0.830
Upper Bound		2.96	12.75	0.002	0.004	276	0.002	0.79	2.19	2.10	0.756	0.71	298	0.008	0.04	0.922

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

QC CERTIFICATE OF ANALYSIS VA19264844

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.002	0.005	0.05	0.01	0.003	0.1	0.02
STANDARDS									
VEG-ASH-10		0.003	0.022	0.053	1.88	0.08	0.253	1265	0.64
VEG-ASH-10		0.003	0.024	0.045	1.69	0.09	0.238	1200	0.71
Target Range - Lower Bound		<0.001	0.020	0.036	1.56	0.05	0.222	1180	0.54
Upper Bound		0.005	0.034	0.060	2.02	0.11	0.278	1445	0.77
VEG-ASH-12		0.002	0.036	0.033	1.31	0.08	0.183	1235	0.41
VEG-ASH-12		0.002	0.048	0.033	1.41	0.07	0.187	1245	0.42
Target Range - Lower Bound		<0.001	0.034	0.021	1.22	0.09	0.175	1140	0.34
Upper Bound		0.004	0.050	0.045	1.60	0.15	0.221	1390	0.51
BLANKS									
BLANK		<0.001	<0.002	<0.005	0.14	<0.01	<0.003	0.1	<0.02
BLANK		<0.001	<0.002	<0.005	0.09	<0.01	<0.003	<0.1	<0.02
Target Range - Lower Bound		<0.001	<0.002	<0.005	<0.05	<0.01	<0.003	<0.1	<0.02
Upper Bound		0.002	0.004	0.010	0.10	0.02	0.006	0.2	0.04
DUPLICATES									
ORIGINAL		0.013	0.085	0.237	11.00	0.25	2.54	2250	2.92
DUP		0.013	0.085	0.239	10.75	0.23	2.50	2280	3.06
Target Range - Lower Bound		0.011	0.077	0.221	10.30	0.21	2.39	2150	2.75
Upper Bound		0.015	0.093	0.255	11.45	0.27	2.65	2380	3.23

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 28-NOV-2019
Account: RENGEO

Project: SADM

QC CERTIFICATE OF ANALYSIS VA19264844

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: The concentration of the reported result is based on the ashed sample. Weight of the sample and weight of the ash has not been factored in the reported concentration
ME-VEG41a

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

DISP-01	EXTRA-01	LOG-22	ME-VEG41a
VEG-ASH01	WEI-21		

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 18-NOV-2019
Account: RENGEO

QC CERTIFICATE VA19278584

Project: SADIM

This report is for 11 Soil samples submitted to our lab in Vancouver, BC, Canada on 18-OCT-2019.

The following have access to data associated with this certificate:

RICHARD BILLINGSLEY	LEOPOLD LINDINGER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
DISP-01	Disposal of all sample fractions

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS23	IONIC Leach - Complete PKG.	ICP-MS
pH-MS23	MS23 Leach pH	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 18-NOV-2019
Account: RENGEO

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278584

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Ag	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy
	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.1	0.5	0.02	10	0.2	0.3	0.05	0.2	0.2	0.1	0.3	1	0.1	1	0.1
STANDARDS																
OREAS 501b		0.8	13.6	240	710	<0.2	1.2	0.05	445	11.1	27.3	140.5	4	139.5	81900	3.9
Target Range - Lower Bound		0.6	13.3	211	660	<0.2	0.7	<0.05	378	10.4	26.8	137.0	3	127.0	75500	3.7
Upper Bound		1.0	17.3	259	920	0.6	2.1	0.19	462	13.2	33.0	168.0	7	155.0	92300	4.7
SRM-21A-1		4.4	7.6	4.41	30	<0.2	<0.3	0.30	105.5	2.5	37.9	25.9	12	10.5	405	3.0
Target Range - Lower Bound		4.3	7.6	4.22	<10	<0.2	1.3	0.22	95.7	2.5	38.8	30.8	15	9.9	448	3.2
Upper Bound		5.5	10.5	5.20	50	0.5	2.7	0.46	117.5	3.6	47.6	38.4	21	12.3	550	4.2
BLANKS																
BLANK		<0.1	<0.5	<0.02	<10	<0.2	<0.3	<0.05	<0.2	<0.2	<0.1	<0.3	<1	<0.1	<1	<0.1
Target Range - Lower Bound		<0.1	<0.5	<0.02	<10	<0.2	<0.3	<0.05	<0.2	<0.2	<0.1	<0.3	<1	<0.1	<1	<0.1
Upper Bound		0.2	1.0	0.04	20	0.4	0.6	0.10	0.4	0.4	0.2	0.6	2	0.2	2	0.2
DUPLICATES																
S-191011-03E		14.7	5.8	0.24	4150	1.1	<0.3	0.10	300	7.6	86.1	14.6	3	3.6	610	17.8
DUP		16.1	5.5	0.14	4440	1.5	<0.3	0.07	311	9.3	95.6	14.4	3	3.5	602	20.4
Target Range - Lower Bound		14.1	4.7	0.16	3960	1.0	<0.3	<0.05	282	7.6	83.9	13.1	2	3.2	560	17.6
Upper Bound		16.7	6.6	0.22	4630	1.6	0.6	0.10	329	9.3	97.8	15.9	4	3.9	652	20.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 18-NOV-2019
Account: RENGEO

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278584

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li	Lu	Mg
	Units	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm
	LOD	0.1	0.1	0.1	0.5	0.1	0.1	0.05	0.1	0.1	0.01	0.1	0.1	0.2	0.1	0.01
STANDARDS																
OREAS 501b		3.1	0.4	20.2	<0.5	2.1	0.2	0.07	0.1	0.9	0.01	<0.1	19.3	105.0	0.4	75.7
Target Range - Lower Bound		3.1	0.2	19.3	<0.5	2.2	<0.1	<0.05	<0.1	0.8	<0.01	<0.1	18.6	99.7	0.3	67.4
Upper Bound		4.0	0.6	23.9	1.5	2.9	0.3	0.17	0.4	1.3	0.03	0.3	23.0	122.5	0.7	82.4
SRM-21A-1		1.1	1.0	3.6	1.5	5.2	0.1	0.50	5.6	0.5	0.12	<0.1	13.0	0.7	0.1	19.95
Target Range - Lower Bound		1.1	1.0	4.8	1.0	5.2	<0.1	0.47	6.3	0.4	0.11	<0.1	13.2	0.6	<0.1	17.55
Upper Bound		1.7	1.6	6.0	3.2	6.6	0.3	0.73	7.9	0.8	0.17	0.2	16.4	1.5	0.3	21.5
BLANKS																
BLANK		<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.05	<0.1	<0.1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.01
Target Range - Lower Bound		<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.05	<0.1	<0.1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.01
Upper Bound		0.2	0.2	0.2	1.0	0.2	0.2	0.10	0.2	0.2	0.02	0.2	0.2	0.4	0.2	0.02
DUPLICATES																
S-191011-03E		8.3	3.5	36.6	2.0	16.9	0.2	1.45	0.5	3.1	0.03	0.1	26.4	0.6	0.6	28.9
DUP		10.1	4.1	40.2	2.4	19.2	0.2	1.50	0.4	3.6	0.03	<0.1	30.4	0.9	0.8	31.0
Target Range - Lower Bound		8.4	3.4	35.4	1.5	16.6	<0.1	1.31	0.3	3.0	0.02	<0.1	26.2	0.5	0.5	27.7
Upper Bound		10.0	4.2	41.4	2.9	19.5	0.3	1.64	0.6	3.7	0.04	0.2	30.6	1.0	0.9	32.2

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ALS Canada Ltd.
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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 18-NOV-2019
Account: RENGEO

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278584

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Sb	Sc	Se	Sm
	Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.01	0.5	0.1	0.1	1	0.1	0.05	0.1	0.1	0.1	0.01	0.5	1	2	0.1
STANDARDS																
OREAS 501b		0.62	1285	0.2	8.0	55	106.0	1.57	2.7	0.1	2220	0.14	10.7	11	164	1.5
Target Range - Lower Bound		0.60	1105	<0.1	9.4	59	102.5	1.38	2.6	<0.1	2110	0.13	9.9	8	142	1.6
Upper Bound		0.76	1355	0.4	11.8	75	125.5	1.80	3.4	0.3	2590	0.19	13.2	13	178	2.2
SRM-21A-1		0.16	12.1	0.1	22.9	251	296	3.42	5.3	0.7	119.5	<0.01	0.5	3	<2	6.3
Target Range - Lower Bound		0.17	13.5	<0.1	25.9	346	323	3.37	5.3	0.7	120.5	<0.01	<0.5	2	<2	5.9
Upper Bound		0.23	17.7	0.4	31.9	425	395	4.23	6.7	1.1	147.5	0.02	1.7	6	8	7.5
BLANKS																
BLANK		<0.01	<0.5	<0.1	<0.1	<1	<0.1	<0.05	0.1	<0.1	0.1	<0.01	<0.5	<1	<2	<0.1
Target Range - Lower Bound		<0.01	<0.5	<0.1	<0.1	<1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.01	<0.5	<1	<2	<0.1
Upper Bound		0.02	1.0	0.2	0.2	2	0.2	0.10	0.2	0.2	0.2	0.02	1.0	2	4	0.2
DUPLICATES																
S-191011-03E		3.22	5.0	0.5	39.3	32	41.5	<0.05	8.5	<0.1	139.5	<0.01	<0.5	33	<2	13.2
DUP		3.95	4.3	0.5	45.3	34	53.2	<0.05	9.9	<0.1	147.0	<0.01	<0.5	38	<2	14.8
Target Range - Lower Bound		3.31	3.8	0.4	39.0	30	43.7	<0.05	8.4	<0.1	132.5	<0.01	<0.5	32	<2	12.9
Upper Bound		3.86	5.5	0.6	45.6	36	51.0	0.10	10.0	0.2	154.0	0.02	1.0	39	4	15.2

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278584

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.2	1	0.05	0.1	0.5	0.02	5	0.05	0.1	0.05	0.2	0.1	0.1	0.1	10
STANDARDS																
OREAS 501b		2.2	3310	<0.05	0.5	<0.5	11.20	<5	3.18	0.5	16.25	8.9	9.0	32.6	3.1	380
Target Range - Lower Bound		1.9	2830	<0.05	0.3	<0.5	10.95	<5	2.72	0.3	15.85		9.6	32.2	3.0	350
Upper Bound		2.9	3460	0.14	0.7	1.3	13.45	15	3.44	0.7	19.45		12.0	39.6	3.8	450
SRM-21A-1		<0.2	192	<0.05	0.6	<0.5	13.80	33	0.23	0.1	10.10	34.3	0.1	12.9	0.5	370
Target Range - Lower Bound		5.8	182	<0.05	0.5	<0.5	14.65	24	0.09	<0.1	10.65		<0.1	16.1	0.5	430
Upper Bound		7.6	224	0.10	0.9	1.0	17.95	48	0.31	0.3	13.15		0.2	19.9	0.9	550
BLANKS																
BLANK		<0.2	<1	<0.05	<0.1	<0.5	<0.02	<5	<0.05	<0.1	<0.05	0.3	<0.1	<0.1	<0.1	<10
Target Range - Lower Bound		<0.2	<1	<0.05	<0.1	<0.5	<0.02	<5	<0.05	<0.1	<0.05		<0.1	<0.1	<0.1	<10
Upper Bound		0.4	2	0.10	0.2	1.0	0.04	10	0.10	0.2	0.10		0.2	0.2	0.2	20
DUPLICATES																
S-191011-03E		<0.2	1240	0.22	2.8	<0.5	7.29	84	0.18	0.9	6.92	5.6	0.1	82.4	5.6	240
DUP		<0.2	1210	0.14	3.1	<0.5	7.56	105	0.19	1.2	6.72	6.3	0.2	101.5	7.0	300
Target Range - Lower Bound		<0.2	1130	0.12	2.6	<0.5	6.85	82	0.12	0.9	6.26	5.3	<0.1	85.0	5.7	240
Upper Bound		0.4	1320	0.24	3.3	1.0	8.00	107	0.25	1.2	7.38	6.6	0.2	98.9	6.9	300

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 18-NOV-2019
Account: RENGEO

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278584

Sample Description	Method Analyte Units LOD	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
STANDARDS			
OREAS 501b		3.9	8.7
Target Range - Lower Bound		3.6	7.9
Upper Bound		5.2	9.9
SRM-21A-1		16.2	8.7
Target Range - Lower Bound		16.2	7.9
Upper Bound		22.2	9.9
BLANKS			
BLANK		<0.1	8.7
Target Range - Lower Bound		<0.1	8.0
Upper Bound		0.2	10.0
DUPLICATES			
S-191011-03E		59.2	7.3
DUP		61.1	7.2
Target Range - Lower Bound		55.5	6.8
Upper Bound		64.8	7.7

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 18-NOV-2019
Account: RENGEO

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278584

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

DISP-01	LOG-22	ME-MS23	pH-MS23
WEI-21			

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 23-NOV-2019
Account: RENGEO

QC CERTIFICATE VA19278589

Project: SADIM

This report is for 12 Other samples submitted to our lab in Vancouver, BC, Canada on 18-OCT-2019.

The following have access to data associated with this certificate:

RICHARD BILLINGSLEY	LEOPOLD LINDINGER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
EXTRA-01	Extra Sample received in Shipment
DISP-01	Disposal of all sample fractions
VEG-MILL01	Maceration of dry plant material

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS23	IONIC Leach - Complete PKG.	ICP-MS
pH-MS23	MS23 Leach pH	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 23-NOV-2019
Account: RENGEO

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278589

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Ag	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy
	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.1	0.5	0.02	10	0.2	0.3	0.05	0.2	0.2	0.1	0.3	1	0.1	1	0.1
STANDARDS																
OREAS 501b		0.8	16.8	244	670	0.2	1.3	0.11	459	11.9	27.3	138.5	4	134.5	84600	3.9
Target Range - Lower Bound		0.6	13.3	211	660	<0.2	0.7	<0.05	378	10.4	26.8	137.0	3	127.0	75500	3.7
Upper Bound		1.0	17.3	259	920	0.6	2.1	0.19	462	13.2	33.0	168.0	7	155.0	92300	4.7
SRM-21A-1		4.4	7.1	4.47	20	<0.2	<0.3	0.26	100.5	2.3	30.8	22.2	12	10.0	421	2.8
Target Range - Lower Bound		4.3	7.6	4.22	<10	<0.2	1.3	0.22	95.7	2.5	38.8	30.8	15	9.9	448	3.2
Upper Bound		5.5	10.5	5.20	50	0.5	2.7	0.46	117.5	3.6	47.6	38.4	21	12.3	550	4.2
BLANKS																
BLANK		<0.1	<0.5	<0.02	<10	<0.2	<0.3	<0.05	<0.2	<0.2	<0.1	<0.3	<1	<0.1	<1	<0.1
Target Range - Lower Bound		<0.1	<0.5	<0.02	<10	<0.2	<0.3	<0.05	<0.2	<0.2	<0.1	<0.3	<1	<0.1	<1	<0.1
Upper Bound		0.2	1.0	0.04	20	0.4	0.6	0.10	0.4	0.4	0.2	0.6	2	0.2	2	0.2
DUPLICATES																
S-191011-03BE		0.3	79.5	0.04	2730	0.5	0.5	0.40	530	85.2	12.1	25.6	6	0.6	2790	1.2
DUP		0.2	67.4	0.05	2830	<0.2	0.4	0.25	545	89.3	11.0	27.8	5	0.5	2870	1.4
Target Range - Lower Bound		<0.1	67.4	<0.02	2560	<0.2	<0.3	0.25	497	80.5	10.6	24.4	4	0.4	2620	1.1
Upper Bound		0.4	79.5	0.07	3000	0.4	0.6	0.40	578	94.0	12.5	29.0	7	0.7	3040	1.5

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 23-NOV-2019
Account: RENGEO

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278589

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	Li	Lu	Mg
	Units	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm
	LOD	0.1	0.1	0.1	0.5	0.1	0.1	0.05	0.1	0.1	0.01	0.1	0.1	0.2	0.1	0.01
STANDARDS																
OREAS 501b		3.2	0.3	20.7	0.5	2.2	0.3	0.05	0.1	1.0	0.01	<0.1	19.0	108.0	0.5	77.8
Target Range - Lower Bound		3.1	0.2	19.3	<0.5	2.2	<0.1	<0.05	<0.1	0.8	<0.01	<0.1	18.6	99.7	0.3	67.4
Upper Bound		4.0	0.6	23.9	1.5	2.9	0.3	0.17	0.4	1.3	0.03	0.3	23.0	122.5	0.7	82.4
SRM-21A-1		0.8	1.1	3.7	1.5	4.3	0.1	0.50	5.6	0.5	0.11	<0.1	10.8	0.7	0.1	18.65
Target Range - Lower Bound		1.1	1.0	4.8	1.0	5.2	<0.1	0.47	6.3	0.4	0.11	<0.1	13.2	0.6	<0.1	17.55
Upper Bound		1.7	1.6	6.0	3.2	6.6	0.3	0.73	7.9	0.8	0.17	0.2	16.4	1.5	0.3	21.5
BLANKS																
BLANK		<0.1	<0.1	<0.1	<0.5	<0.1	0.1	<0.05	<0.1	<0.1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.01
Target Range - Lower Bound		<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.05	<0.1	<0.1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.01
Upper Bound		0.2	0.2	0.2	1.0	0.2	0.2	0.10	0.2	0.2	0.02	0.2	0.2	0.4	0.2	0.02
DUPLICATES																
S-191011-03BE		0.6	0.3	2.2	2.1	1.8	0.2	<0.05	1.3	0.2	0.06	0.1	6.7	6.5	<0.1	103.5
DUP		0.9	0.3	2.3	1.9	1.6	0.3	<0.05	0.8	0.2	0.06	0.1	7.3	4.9	0.1	107.0
Target Range - Lower Bound		0.6	0.2	2.0	1.4	1.5	<0.1	<0.05	0.9	<0.1	0.05	<0.1	6.4	5.1	<0.1	97.3
Upper Bound		0.9	0.4	2.5	2.7	1.9	0.4	0.10	1.2	0.3	0.07	0.2	7.6	6.3	0.2	113.0

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 23-NOV-2019
Account: RENGEO

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278589

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Sb	Sc	Se	Sm
	Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.01	0.5	0.1	0.1	1	0.1	0.05	0.1	0.1	0.1	0.01	0.5	1	2	0.1
STANDARDS																
OREAS 501b		0.61	1295	0.2	9.5	51	104.0	1.49	2.6	0.1	2470	0.16	11.2	11	174	1.6
Target Range - Lower Bound		0.60	1105	<0.1	9.4	59	102.5	1.38	2.6	<0.1	2110	0.13	9.9	8	142	1.6
Upper Bound		0.76	1355	0.4	11.8	75	125.5	1.80	3.4	0.3	2590	0.19	13.2	13	178	2.2
SRM-21A-1		0.15	11.5	0.2	22.5	214	282	3.80	4.5	1.1	110.5	<0.01	<0.5	3	2	5.1
Target Range - Lower Bound		0.17	13.5	<0.1	25.9	346	323	3.37	5.3	0.7	120.5	<0.01	<0.5	2	<2	5.9
Upper Bound		0.23	17.7	0.4	31.9	425	395	4.23	6.7	1.1	147.5	0.02	1.7	6	8	7.5
BLANKS																
BLANK		<0.01	<0.5	<0.1	0.1	<1	<0.1	0.05	<0.1	0.1	<0.1	<0.01	<0.5	<1	3	0.1
Target Range - Lower Bound		<0.01	<0.5	<0.1	<0.1	<1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.01	<0.5	<1	<2	<0.1
Upper Bound		0.02	1.0	0.2	0.2	2	0.2	0.10	0.2	0.2	0.2	0.02	1.0	2	4	0.2
DUPLICATES																
S-191011-03BE		47.4	<0.5	<0.1	6.5	14	99.9	<0.05	1.6	0.3	114.5	<0.01	0.5	7	25	2.6
DUP		50.3	0.5	0.1	6.5	12	100.5	0.15	1.3	0.8	115.5	0.03	0.8	6	13	2.4
Target Range - Lower Bound		45.2	<0.5	<0.1	5.9	11	92.6	<0.05	1.2	0.4	106.5	<0.01	<0.5	5	16	2.2
Upper Bound		52.5	1.0	0.2	7.1	15	108.0	0.16	1.7	0.7	123.5	0.03	1.0	8	22	2.8

***** See Appendix Page for comments regarding this certificate *****

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To: **RENAISSANCE GEOSCIENCE**
680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 23-NOV-2019
Account: RENGEO

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278589

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOD	0.2	1	0.05	0.1	0.5	0.02	5	0.05	0.1	0.05	0.2	0.1	0.1	0.1	10
STANDARDS																
OREAS 501b		2.0	3290	<0.05	0.5	<0.5	11.25	8	3.35	0.4	16.30	8.5	10.0	33.8	3.3	390
Target Range - Lower Bound		1.9	2830	<0.05	0.3	<0.5	10.95	<5	2.72	0.3	15.85		9.6	32.2	3.0	350
Upper Bound		2.9	3460	0.14	0.7	1.3	13.45	15	3.44	0.7	19.45		12.0	39.6	3.8	450
SRM-21A-1		0.3	182	<0.05	0.5	<0.5	11.90	45	0.20	0.1	8.59	33.6	0.2	12.4	0.4	380
Target Range - Lower Bound		5.8	182	<0.05	0.5	<0.5	14.65	24	0.09	<0.1	10.65		<0.1	16.1	0.5	430
Upper Bound		7.6	224	0.10	0.9	1.0	17.95	48	0.31	0.3	13.15		0.2	19.9	0.9	550
BLANKS																
BLANK		0.2	<1	<0.05	<0.1	<0.5	<0.02	<5	<0.05	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<10
Target Range - Lower Bound		<0.2	<1	<0.05	<0.1	<0.5	<0.02	<5	<0.05	<0.1	<0.05		<0.1	<0.1	<0.1	<10
Upper Bound		0.4	2	0.10	0.2	1.0	0.04	10	0.10	0.2	0.10		0.2	0.2	0.2	20
DUPLICATES																
S-191011-03BE		<0.2	1120	<0.05	0.1	<0.5	1.24	30	0.31	0.1	0.82	2.0	0.2	7.1	0.2	19100
DUP		0.6	1160	<0.05	0.1	<0.5	1.37	15	0.36	0.1	0.45	1.5	0.4	7.2	0.6	20400
Target Range - Lower Bound		<0.2	1055	<0.05	<0.1	<0.5	1.19	16	0.26	<0.1	0.54	1.4	0.2	6.5	0.3	18250
Upper Bound		0.6	1225	0.10	0.2	1.0	1.42	29	0.41	0.2	0.73	2.1	0.4	7.8	0.5	21200

***** See Appendix Page for comments regarding this certificate *****

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680 DAIRY RD
KAMLOOPS BC V2B 8N5

Finalized Date: 23-NOV-2019
Account: RENGEO

Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278589

Sample Description	Method Analyte Units LOD	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
STANDARDS			
OREAS 501b		4.8	8.6
Target Range - Lower Bound		3.6	7.9
Upper Bound		5.2	9.9
SRM-21A-1		15.0	8.6
Target Range - Lower Bound		16.2	7.9
Upper Bound		22.2	9.9
BLANKS			
BLANK		<0.1	8.7
Target Range - Lower Bound		<0.1	8.0
Upper Bound		0.2	10.0
DUPLICATES			
S-191011-03BE		1.4	5.2
DUP		2.1	5.3
Target Range - Lower Bound		1.5	4.9
Upper Bound		2.0	5.6

***** See Appendix Page for comments regarding this certificate *****

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Project: SADIM

QC CERTIFICATE OF ANALYSIS VA19278589

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
DISP-01	EXTRA-01	LOG-22	ME-MS23
pH-MS23	VEG-MILL01	WEI-21	

APPENDIX B
TABLE 2 - ANALYTICAL RESULTS SUMMARY

_____

SOIL AR DIG.			AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
SAMPLE			Ag	Al	As	Au	B	Ba	Be
DESCRIPTION			ppm	%	ppm	ppm	ppm	ppm	ppm
S-191010-01S			0.11	2.01	6.5	0.002	10	160	0.46
S-191010-02S			0.19	1.41	3.3	0.004	10	130	0.28
S-191010-03S			0.2	2.2	3.5	0.002	10	130	0.54
S-191010-04S			0.17	1.24	2.3	0.001	10	130	0.28
S-191010-05S			0.1	2.13	4.5	0.003	<10	90	0.44
S-191010-06S			0.14	1.8	3.4	0.003	10	130	0.36
S-191010-07S			0.17	1.6	6.1	0.001	10	140	0.4
S-191011-01S			0.03	1.31	3.1	0.002	10	140	0.37
S-191011-02S			0.11	1.89	6	0.001	10	170	0.45
S-191011-03S			0.08	1.76	7.6	0.003	10	170	0.45
S-191011-04S			0.18	1.79	10.9	0.003	10	100	0.4

SOIL ION LCH			ME-MS23		ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE			Ag		As	Au		Ba	Be
DESCRIPTION			ppb		ppb	ppb		ppb	ppb
S-191010-01E			6.7		4.4	0.08		1670	3
S-191010-02E			4.1		9.7	0.08		1680	1.2
S-191010-03E			32.3		2.6	0.29		1500	<0.2
S-191010-04E			9.9		5.9	0.03		920	0.7
S-191010-05E			2.5		8.2	0.06		860	2.8
S-191010-06E			1.9		13.4	0.02		3540	4.5
S-191010-07E			15.4		7.7	0.1		2000	1.3
S-191011-01E			7.3		8.5	0.07		1090	0.8
S-191011-02E			10.1		13.8	0.05		2540	6
S-191011-03E			14.7		5.8	0.24		4150	1.1
S-191011-04E			3.1		25.2	0.04		2350	3.8

BARK ASH	VEG-ASH01	VEG-ASH01	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
SAMPLE	WT. SAMP USED	WT. ASH	Ag	Al	As	Au	B	Ba	Be
DESCRIPTION	g	g	ppm	%	ppm	ppm	ppm	ppm	ppm
S-191010-01BA	50.2	0.39	0.256	1.56	17.1	0.0033	372	945	0.05
S-191010-02BA	49.3	0.26	0.441	1.73	21.4	0.0082	511	336	0.04
S-191010-03BA	48.4	0.46	0.313	1.87	105	0.003	481	1765	0.03
S-191010-04BA	48.5	0.58	0.331	0.56	10.25	0.0026	246	237	0.04
S-191010-05BA	49.1	0.23	0.344	2.4	18.55	0.0073	421	406	0.1
S-191010-06BA	50	0.33	0.426	1.43	29.8	0.0047	448	919	0.07
S-191010-07BA	50.2	0.43	0.252	1.72	33.3	0.0037	354	310	0.08
S-191011-01BA	49.3	0.69	0.093	0.56	8.4	0.0017	239	355	0.02
S-191011-02BA	50	0.34	0.257	2.14	22.9	0.0054	374	514	0.05
S-191011-03BA	50.8	0.54	0.128	0.65	50.5	0.003	405	180.5	0.06
S-191011-04BA	50.1	0.24	0.446	3.09	42.1	0.0045	619	295	0.06
S-191011-05BA	51.6	0.47	0.163	1.1	12.55	0.0052	357	234	0.03

BARK ION LCH			ME-MS23		ME-MS23	ME-MS23		ME-MS23	ME-MS23
SAMPLE			Ag		As	Au		Ba	Be
DESCRIPTION			ppb		ppb	ppb		ppb	ppb
S-191010-01BE			0.1		22.8	0.02		1160	<0.2
S-191010-02BE			0.2		12.9	<0.02		2440	0.2
S-191010-03BE			<0.1		31.3	0.05		1160	0.3
S-191010-04BE			0.2		108.5	<0.02		3060	0.2
S-191010-05BE			0.2		23.6	<0.02		1770	0.3
S-191010-06BE			0.2		14.7	<0.02		3640	0.2
S-191010-07BE			<0.1		26.1	<0.02		1690	<0.2
S-191011-01BE			0.3		27.9	0.02		5830	0.2
S-191011-02BE			0.1		50.8	<0.02		6080	0.4
S-191011-03BE			0.3		79.5	0.04		2730	0.5
S-191011-04BE			0.1		25.9	0.04		1430	0.2
S-191011-05BE			0.1		16.5	0.06		1600	0.6

SOIL AR DIG.	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
SAMPLE	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
DESCRIPTION	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
S-191010-01S	0.08	0.42	0.27	14	11.1	20	0.89	37.8
S-191010-02S	0.06	0.42	0.54	9.07	8.2	18	0.5	24.6
S-191010-03S	0.11	0.67	0.5	19.85	9	15	0.7	45.4
S-191010-04S	0.07	0.42	0.43	10.05	7.5	10	0.65	22.2
S-191010-05S	0.09	0.3	0.13	6.73	8	12	1.07	22.7
S-191010-06S	0.08	0.35	0.17	9.09	10.1	17	0.88	30.3
S-191010-07S	0.08	0.36	0.13	9.07	12.5	13	1	32.8
S-191011-01S	0.08	0.35	0.08	9.4	7.5	6	0.48	20.4
S-191011-02S	0.1	0.21	0.07	9.71	8.2	7	0.99	31.7
S-191011-03S	0.1	0.31	0.09	9.67	9.6	10	0.88	43.2
S-191011-04S	0.1	0.18	0.13	8.2	9.1	11	1.28	33.3

SOIL ION LCH	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu
DESCRIPTION	ppb	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb
S-191010-01E	<0.3	0.07	252	39	92.5	16.2	5	2.3	884
S-191010-02E	<0.3	0.09	352	138.5	68.5	34.9	10	1.4	435
S-191010-03E	<0.3	0.08	524	28.2	18.8	35.5	1	1.2	1590
S-191010-04E	<0.3	0.1	312	62.3	32.2	11.8	2	1.6	270
S-191010-05E	<0.3	0.1	126	19	32.4	18.8	5	3	277
S-191010-06E	0.5	0.13	218	32.3	77.3	78.2	26	3.5	613
S-191010-07E	<0.3	0.05	303	10.7	65.9	47.9	6	2.4	431
S-191011-01E	<0.3	0.08	306	11.9	45.7	8.1	2	1.7	333
S-191011-02E	<0.3	0.05	81.9	7.2	197.5	21.5	7	6.6	415
S-191011-03E	<0.3	0.1	300	7.6	86.1	14.6	3	3.6	610
S-191011-04E	0.3	0.11	37.4	22.9	95.9	72.3	15	11.1	759

BARK ASH	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
SAMPLE	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
DESCRIPTION	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
S-191010-01BA	0.054	28.2	2.4	1.695	2.8	4.39	0.807	709
S-191010-02BA	0.105	26.7	46.2	0.992	2.79	6.77	0.372	681
S-191010-03BA	0.025	32.6	23	0.61	3.14	3.11	0.165	377
S-191010-04BA	0.053	32.3	8.9	1.25	2.1	4.69	0.277	381
S-191010-05BA	0.231	28.4	35.8	3.2	7.41	6.15	0.552	584
S-191010-06BA	0.096	26	9.04	2.7	4.45	9.91	0.896	807
S-191010-07BA	0.11	26.9	4.16	2.33	3.22	4.96	1.42	733
S-191011-01BA	0.027	33	2.61	0.44	1.34	0.84	0.25	263
S-191011-02BA	0.066	27.3	2.98	1.225	2	2.48	0.581	514
S-191011-03BA	0.075	31.5	9.51	1.515	3.5	2.83	0.413	437
S-191011-04BA	0.067	23.4	3.19	1.605	4.77	4.44	0.413	1180
S-191011-05BA	0.051	32.3	1.875	1.04	1.135	3.64	0.609	474

BARK ION LCH	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu
DESCRIPTION	ppb	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb
S-191010-01BE	<0.3	<0.05	479	52.4	6.6	34.3	10	0.5	2970
S-191010-02BE	<0.3	0.15	332	204	6.7	1035	110	0.4	2010
S-191010-03BE	0.3	<0.05	521	149.5	3.9	56.9	12	0.4	1770
S-191010-04BE	0.5	0.21	408	99.5	12.4	46.2	17	0.6	2430
S-191010-05BE	1	0.34	470	186	15.4	76.5	21	1.5	2490
S-191010-06BE	<0.3	0.14	370	83.3	8.1	42.6	14	1.1	3000
S-191010-07BE	<0.3	0.17	336	32.9	6.2	20	13	4.8	3450
S-191011-01BE	0.6	<0.05	631	63.3	9.6	25.3	10	0.4	2290
S-191011-02BE	0.7	0.23	366	27.8	14.3	25.1	11	1.1	2670
S-191011-03BE	0.5	0.4	530	85.2	12.1	25.6	6	0.6	2790
S-191011-04BE	0.3	0.17	460	20.4	8.5	32.6	10	0.8	3430
S-191011-05BE	1.9	0.15	444	16.8	28.2	187	153	2.7	9190

SOIL AR DIG.				AuME-TL43	AuME-TL43		AuME-TL43	AuME-TL43	AuME-TL43
SAMPLE				Fe	Ga		Ge	Hf	Hg
DESCRIPTION				%	ppm		ppm	ppm	ppm
S-191010-01S				2.62	6.3		<0.05	0.08	0.03
S-191010-02S				2.23	4.78		<0.05	0.03	0.03
S-191010-03S				2.34	6.45		<0.05	0.25	0.04
S-191010-04S				1.82	4.56		<0.05	0.02	0.03
S-191010-05S				2.4	7.14		<0.05	0.11	0.05
S-191010-06S				2.59	6.3		<0.05	0.04	0.03
S-191010-07S				2.91	5.57		<0.05	0.02	0.03
S-191011-01S				2.2	5.09		<0.05	0.04	0.02
S-191011-02S				2.31	6.74		<0.05	0.09	0.03
S-191011-03S				2.68	6.17		<0.05	0.04	0.02
S-191011-04S				2.37	6.23		<0.05	0.12	0.05

SOIL ION LCH	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg
DESCRIPTION	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
S-191010-01E	51	28.4	7.8	67.9	6.2	41.8	0.6	1.43	0.4
S-191010-02E	15.1	7.8	2.7	47.6	3.9	13.5	0.3	1.46	0.4
S-191010-03E	5.7	2.6	1.5	10.8	0.6	8.2	0.1	0.64	0.2
S-191010-04E	10.6	5.2	2.1	31.6	2.1	10.2	0.2	0.87	0.4
S-191010-05E	8.2	4.4	1.3	48.6	11.2	7.1	0.2	1.31	0.8
S-191010-06E	26.5	16.4	3	138	13.3	16	0.7	3.7	0.8
S-191010-07E	12.8	5.6	3	44.2	2.4	13.1	0.2	1.06	0.6
S-191011-01E	10.2	4.9	2.1	28.5	2.1	10.8	0.2	1.35	0.7
S-191011-02E	30.4	16	5.7	80.3	12.8	26.5	0.7	5.68	0.6
S-191011-03E	17.8	8.3	3.5	36.6	2	16.9	0.2	1.45	0.5
S-191011-04E	32.8	18.5	4	97.6	17	20.2	0.9	4.1	1.1

BARK ASH				ME-VEG41a	ME-VEG41a		ME-VEG41a	ME-VEG41a	ME-VEG41a
SAMPLE				Fe	Ga		Ge	Hf	Hg
DESCRIPTION				ppm	ppm		ppm	ppm	ppm
S-191010-01BA				3000	0.674		0.021	0.039	0.002
S-191010-02BA				2300	0.426		0.014	0.022	0.002
S-191010-03BA				900	0.264		0.011	0.015	0.004
S-191010-04BA				2200	0.471		0.014	0.029	0.001
S-191010-05BA				4800	1.18		0.024	0.068	0.007
S-191010-06BA				6400	1.145		0.028	0.062	0.001
S-191010-07BA				4100	0.807		0.022	0.053	0.001
S-191011-01BA				657	0.151		0.008	0.009	<0.001
S-191011-02BA				1900	0.565		0.012	0.029	0.001
S-191011-03BA				2600	0.612		0.012	0.046	<0.001
S-191011-04BA				2800	0.562		0.017	0.03	0.005
S-191011-05BA				2000	0.504		0.019	0.033	0.002

BARK ION LCH	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg
DESCRIPTION	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
S-191010-01BE	0.6	0.3	0.2	0.6	1	0.8	0.1	<0.05	0.9
S-191010-02BE	0.9	0.4	0.2	0.9	1.1	0.5	0.6	<0.05	<0.1
S-191010-03BE	0.4	0.2	0.1	1.1	1.7	0.5	0.3	<0.05	<0.1
S-191010-04BE	1.1	0.5	0.3	3.7	2.1	1.4	0.1	0.06	1.1
S-191010-05BE	1.3	0.6	0.4	3.1	1.7	1.8	0.2	<0.05	0.5
S-191010-06BE	0.7	0.4	0.2	1.7	1.6	1.3	<0.1	0.08	0.5
S-191010-07BE	0.6	0.4	0.2	1.7	1	1	0.7	<0.05	0.5
S-191011-01BE	0.6	0.5	0.2	1.3	2	0.8	0.3	<0.05	0.2
S-191011-02BE	1.9	0.8	0.5	3.4	2.3	1.9	0.2	0.14	0.2
S-191011-03BE	1.2	0.6	0.3	2.2	2.1	1.8	0.2	<0.05	1.3
S-191011-04BE	0.7	0.3	0.3	2.6	1.3	0.9	0.2	<0.05	<0.1
S-191011-05BE	2.3	0.9	0.8	10.7	2	2.8	0.2	<0.05	0.8

SOIL AR DIG.		AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43		AuME-TL43	AuME-TL43
SAMPLE		In	K	La	Li		Mg	Mn
DESCRIPTION		ppm	%	ppm	ppm		%	ppm
S-191010-01S		0.022	0.06	5.5	11.1		0.47	872
S-191010-02S		0.016	0.09	3.7	8.5		0.39	820
S-191010-03S		0.025	0.04	7.9	11.4		0.37	818
S-191010-04S		0.015	0.08	3.9	8.5		0.22	583
S-191010-05S		0.02	0.03	3	9		0.21	548
S-191010-06S		0.022	0.07	3.7	11.6		0.45	648
S-191010-07S		0.025	0.05	3.7	10.3		0.28	430
S-191011-01S		0.018	0.06	3.5	9.6		0.44	603
S-191011-02S		0.023	0.05	3.7	12.3		0.31	692
S-191011-03S		0.024	0.07	3.9	12.6		0.36	537
S-191011-04S		0.023	0.05	3.4	12		0.36	597

SOIL ION LCH	ME-MS23	ME-MS23	ME-MS23		ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Ho	I	In		La	Li	Lu	Mg	Mn
DESCRIPTION	ppb	ppm	ppb		ppb	ppb	ppb	ppm	ppm
S-191010-01E	9.7	0.02	0.1		38.1	1.8	2.4	36.9	4.92
S-191010-02E	2.8	0.02	<0.1		20.5	3.1	0.7	51	23
S-191010-03E	1	0.02	<0.1		10.2	<0.2	0.2	37.9	6.1
S-191010-04E	1.9	0.02	<0.1		12.4	1.1	0.4	25.2	6.14
S-191010-05E	1.5	0.02	0.1		11.2	2.6	0.3	14.8	6.02
S-191010-06E	5.5	0.04	0.2		21.2	8.5	1.7	47.1	16.45
S-191010-07E	2.2	0.02	0.1		18.1	0.8	0.4	28.6	7.12
S-191011-01E	1.8	0.02	<0.1		15	1.1	0.4	26.9	5.19
S-191011-02E	5.4	0.03	0.2		50	5.2	1.5	9.55	8.24
S-191011-03E	3.1	0.03	0.1		26.4	0.6	0.6	28.9	3.22
S-191011-04E	6.2	0.04	0.3		23.7	12.9	1.6	11	8.5

BARK ASH		ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a		ME-VEG41a	ME-VEG41a
SAMPLE		In	K	La	Li		Mg	Mn
DESCRIPTION		ppm	%	ppm	ppm		%	ppm
S-191010-01BA		0.018	8.34	0.934	1.2		0.88	2710
S-191010-02BA		0.005	>10.0	0.544	0.7		1.05	5860
S-191010-03BA		<0.005	6.44	0.438	0.5		0.94	4840
S-191010-04BA		0.005	3.58	0.733	1		0.67	4220
S-191010-05BA		0.02	4	1.745	1.5		1.31	3990
S-191010-06BA		0.012	6.95	1.465	2.3		0.8	3740
S-191010-07BA		0.02	7.7	1.34	1.8		0.81	2500
S-191011-01BA		<0.005	3.01	0.31	0.3		0.43	4030
S-191011-02BA		0.01	7.25	0.814	1		0.69	5150
S-191011-03BA		0.011	4.65	0.946	1.3		1.14	4920
S-191011-04BA		0.01	>10.0	0.864	0.8		0.97	2230
S-191011-05BA		0.01	3.58	0.554	1		1.22	1690

BARK ION LCH	ME-MS23	ME-MS23	ME-MS23		ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Ho	I	In		La	Li	Lu	Mg	Mn
DESCRIPTION	ppb	ppm	ppb		ppb	ppb	ppb	ppm	ppm
S-191010-01BE	0.1	0.01	<0.1		3.3	1.1	<0.1	122.5	23.8
S-191010-02BE	0.1	0.01	<0.1		3.4	1.6	0.1	77.3	29.3
S-191010-03BE	<0.1	0.01	<0.1		3.7	1.6	<0.1	92.1	54.2
S-191010-04BE	0.2	0.05	<0.1		6.9	4.1	<0.1	86.7	49.9
S-191010-05BE	0.2	0.03	0.1		7.6	2.7	<0.1	85.5	34
S-191010-06BE	0.3	0.01	<0.1		4.5	2.1	0.1	54.6	33.6
S-191010-07BE	0.1	0.02	<0.1		3	1.6	<0.1	55.4	16.75
S-191011-01BE	0.2	0.02	<0.1		5.5	2.5	<0.1	73.2	57.2
S-191011-02BE	0.3	0.03	<0.1		8.2	3.3	0.1	52.4	37.5
S-191011-03BE	0.2	0.06	0.1		6.7	6.5	<0.1	103.5	47.4
S-191011-04BE	0.2	0.02	0.1		4.9	1	0.1	55.8	16.4
S-191011-05BE	0.3	0.01	0.1		13.8	1.5	0.2	77.9	17.7

SOIL AR DIG.	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
SAMPLE	Mo	Na	Nb	Ni	P	Pb		
DESCRIPTION	ppm	%	ppm	ppm	ppm	ppm		
S-191010-01S	0.79	0.04	0.81	13	1440	6.4		
S-191010-02S	0.89	0.02	0.54	9.9	700	8.5		
S-191010-03S	0.64	0.02	1.03	10.3	310	11.8		
S-191010-04S	1.12	0.02	0.53	7.7	800	4.4		
S-191010-05S	0.63	0.02	1.31	8.2	1170	6.5		
S-191010-06S	0.61	0.01	0.59	11.1	1040	5.8		
S-191010-07S	1.24	0.01	0.72	14.6	350	5.6		
S-191011-01S	0.39	0.01	0.41	4.2	800	4.1		
S-191011-02S	0.55	0.01	0.43	5.7	1140	4.2		
S-191011-03S	0.77	0.01	0.37	8	640	4		
S-191011-04S	0.9	0.01	0.6	7.9	1150	5		

SOIL ION LCH	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Mo	Nb	Nd	Ni	Pb	Pd	Pr
DESCRIPTION	ppb	ppb	ppb	ppb	ppb	ppb	ppb
S-191010-01E	1.2	0.8	90.3	82	142.5	<0.05	17.3
S-191010-02E	7.8	1.1	33.5	105	216	<0.05	7.3
S-191010-03E	8.2	0.3	19.2	20	9.8	0.1	3.6
S-191010-04E	17.9	0.8	21.1	55	71.6	<0.05	4.6
S-191010-05E	2	1.3	19.7	53	162	0.13	4.4
S-191010-06E	1.7	2.7	35.3	99	258	<0.05	8
S-191010-07E	5.9	0.6	29.8	121	84.3	0.14	6.2
S-191011-01E	7.5	1.2	25.2	33	36.2	0.36	5.5
S-191011-02E	2.3	2.8	80.2	40	117.5	0.1	18.1
S-191011-03E	5	0.5	39.3	32	41.5	<0.05	8.5
S-191011-04E	2.8	2.4	46.9	75	175	<0.05	9.9

BARK ASH	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
SAMPLE	Mo	Na	Nb	Ni	P	Pb	Pd
DESCRIPTION	ppm	%	ppm	ppm	%	ppm	ppm
S-191010-01BA	2.65	0.069	0.103	3.35	3.16	16.6	0.005
S-191010-02BA	7.61	0.045	0.082	3.42	2.41	10.65	<0.001
S-191010-03BA	1.08	0.129	0.04	2.11	1.55	6.2	<0.001
S-191010-04BA	2.2	0.063	0.081	2.56	1.15	12.5	0.003
S-191010-05BA	2.46	0.148	0.159	6.23	2.16	35.7	<0.001
S-191010-06BA	2.48	0.095	0.175	4.5	1.995	13.15	0.005
S-191010-07BA	2.43	0.132	0.155	4.79	3.19	16.3	0.006
S-191011-01BA	1.09	0.028	0.025	0.86	0.706	4.32	0.006
S-191011-02BA	1.55	0.072	0.075	1.87	2.16	16.3	0.004
S-191011-03BA	1.41	0.142	0.101	2.88	1.225	10.75	0.003
S-191011-04BA	11.6	0.092	0.095	3.89	3.39	19.4	<0.001
S-191011-05BA	1.73	0.045	0.092	1.87	1.525	41.4	0.004

BARK ION LCH	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Mo	Nb	Nd	Ni	Pb	Pd	Pr
DESCRIPTION	ppb	ppb	ppb	ppb	ppb	ppb	ppb
S-191010-01BE	<0.5	0.2	4	18	113	0.06	0.9
S-191010-02BE	0.9	0.2	3.2	129	105	0.07	0.7
S-191010-03BE	0.6	0.1	2.5	14	53	0.1	0.6
S-191010-04BE	<0.5	0.2	6.9	23	186	0.08	1.4
S-191010-05BE	<0.5	<0.1	7.3	50	222	0.05	1.8
S-191010-06BE	0.9	0.1	4.5	14	51.1	<0.05	1.1
S-191010-07BE	<0.5	<0.1	4.8	18	79.1	0.25	0.8
S-191011-01BE	0.5	0.1	5.7	11	158	0.11	1.2
S-191011-02BE	0.9	<0.1	8.9	22	237	0.11	2.1
S-191011-03BE	<0.5	<0.1	6.5	14	99.9	<0.05	1.6
S-191011-04BE	0.5	0.1	4.6	15	138	0.18	1.1
S-191011-05BE	2	<0.1	13	56	233	0.13	3.5

SOIL AR DIG.	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43		AuME-TL43
SAMPLE		Rb	Re	S	Sb	Sc	Se		Sn
DESCRIPTION		ppm	ppm	%	ppm	ppm	ppm		ppm
S-191010-01S		7.5	<0.001	0.01	0.27	3.9	0.3		0.6
S-191010-02S		5.9	<0.001	0.01	0.33	2.8	0.2		0.4
S-191010-03S		6	<0.001	0.01	0.33	4.2	0.6		0.6
S-191010-04S		5.9	<0.001	0.01	0.21	2.3	0.2		0.5
S-191010-05S		4.4	<0.001	0.01	0.29	2.2	0.2		0.6
S-191010-06S		7.6	<0.001	0.01	0.18	3.4	0.2		0.5
S-191010-07S		6.2	<0.001	0.01	0.41	3.6	0.3		0.6
S-191011-01S		5.4	<0.001	0.01	0.16	3	<0.2		0.5
S-191011-02S		5.6	<0.001	0.01	0.17	2.7	0.2		0.6
S-191011-03S		6.5	<0.001	0.01	0.2	3.3	0.2		0.6
S-191011-04S		6	<0.001	0.01	0.21	2.8	0.2		0.5

SOIL ION LCH	ME-MS23	ME-MS23	ME-MS23		ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Pt	Rb	Re		Sb	Sc	Se	Sm	Sn
DESCRIPTION	ppb	ppb	ppb		ppb	ppb	ppb	ppb	ppb
S-191010-01E	<0.1	162	<0.01		<0.5	45	<2	28.1	<0.2
S-191010-02E	<0.1	112.5	<0.01		0.5	41	3	10	<0.2
S-191010-03E	<0.1	110	<0.01		<0.5	5	5	6.3	<0.2
S-191010-04E	<0.1	148	<0.01		<0.5	22	4	7.5	<0.2
S-191010-05E	<0.1	117	<0.01		<0.5	15	2	5.5	0.3
S-191010-06E	<0.1	170	<0.01		<0.5	69	2	11.8	0.3
S-191010-07E	<0.1	86.4	<0.01		<0.5	32	<2	10.7	<0.2
S-191011-01E	<0.1	162.5	0.01		<0.5	15	<2	8.1	<0.2
S-191011-02E	0.1	180.5	<0.01		<0.5	44	<2	22.9	0.3
S-191011-03E	<0.1	139.5	<0.01		<0.5	33	<2	13.2	<0.2
S-191011-04E	<0.1	241	<0.01		<0.5	53	<2	14.2	0.7

BARK ASH	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a		ME-VEG41a
SAMPLE	Pt	Rb	Re	S	Sb	Sc	Se		Sn
DESCRIPTION	ppm	ppm	ppm	%	ppm	ppm	ppm		ppm
S-191010-01BA	<0.002	67.2	0.002	2.93	0.93	1.59	3.5		0.37
S-191010-02BA	<0.002	42.9	0.003	1.99	1.45	1.16	2.85		1.06
S-191010-03BA	<0.002	40.2	0.002	1.24	0.45	0.6	2.02		0.78
S-191010-04BA	<0.002	15.95	0.002	3	0.55	0.88	2.14		1.14
S-191010-05BA	<0.002	39.6	0.003	1.77	1.59	1.6	2.89		0.94
S-191010-06BA	<0.002	55.2	0.006	2.81	0.67	2.18	2.89		0.74
S-191010-07BA	<0.002	61.1	0.003	2.49	1.08	1.51	3.61		0.56
S-191011-01BA	<0.002	21.7	0.002	1.4	0.22	0.43	1.175		0.18
S-191011-02BA	<0.002	45.7	0.004	3.09	0.4	0.9	2.37		0.49
S-191011-03BA	<0.002	28.8	0.007	3.35	0.89	1.05	2.43		0.38
S-191011-04BA	<0.002	56	0.005	3.32	0.8	1.44	2.54		0.75
S-191011-05BA	<0.002	65.8	0.007	3.02	0.49	0.93	3.28		0.39

BARK ION LCH	ME-MS23	ME-MS23	ME-MS23		ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Pt	Rb	Re		Sb	Sc	Se	Sm	Sn
DESCRIPTION	ppb	ppb	ppb		ppb	ppb	ppb	ppb	ppb
S-191010-01BE	<0.1	179.5	<0.01		0.8	10	20	1.7	0.6
S-191010-02BE	<0.1	97.2	0.02		1.1	11	31	1.1	1.3
S-191010-03BE	<0.1	201	<0.01		1.1	7	30	0.7	1.2
S-191010-04BE	<0.1	119	<0.01		1.7	7	21	1.8	0.2
S-191010-05BE	0.1	186.5	<0.01		0.9	9	4	2.6	0.9
S-191010-06BE	0.3	172.5	0.02		0.8	13	<2	1.5	0.3
S-191010-07BE	0.1	292	<0.01		1.5	8	16	1.2	0.4
S-191011-01BE	0.3	122.5	0.03		<0.5	6	14	2.1	0.9
S-191011-02BE	0.1	145.5	<0.01		1.3	9	12	2.6	0.5
S-191011-03BE	0.3	114.5	<0.01		0.5	7	25	2.6	<0.2
S-191011-04BE	<0.1	175	<0.01		0.5	6	30	1.4	0.8
S-191011-05BE	<0.1	339	0.05		0.5	7	9	3.2	0.2

SOIL AR DIG.	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
SAMPLE	Sr	Ta	Te	Th	Ti	Tl	U
DESCRIPTION	ppm	ppm	ppm	ppm	%	ppm	ppm
S-191010-01S	33.5	<0.01	0.05	0.7	0.071	0.06	0.38
S-191010-02S	29	<0.01	0.08	0.5	0.073	0.04	0.23
S-191010-03S	33.8	<0.01	0.05	1.2	0.074	0.06	0.57
S-191010-04S	25.2	<0.01	0.02	0.5	0.062	0.03	0.22
S-191010-05S	17.5	<0.01	0.06	0.7	0.086	0.05	0.32
S-191010-06S	26.4	<0.01	0.03	0.6	0.072	0.05	0.28
S-191010-07S	23.5	<0.01	0.06	0.5	0.054	0.05	0.27
S-191011-01S	46.4	<0.01	0.02	0.7	0.059	0.04	0.28
S-191011-02S	25.5	<0.01	0.03	1	0.036	0.06	0.33
S-191011-03S	32.5	<0.01	0.03	0.8	0.047	0.06	0.31
S-191011-04S	14.3	<0.01	0.03	0.6	0.043	0.05	0.29

SOIL ION LCH	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U
DESCRIPTION	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
S-191010-01E	994	0.09	7.3	<0.5	6.95	188	0.17	3.1	6.74
S-191010-02E	907	0.08	2.3	<0.5	6.45	260	0.1	1	3.9
S-191010-03E	1320	0.05	1	<0.5	1.84	22	0.15	0.3	3.65
S-191010-04E	612	0.05	1.6	0.5	2.3	154	0.06	0.6	3.34
S-191010-05E	302	0.11	1.2	<0.5	5.67	479	0.14	0.5	3.78
S-191010-06E	947	0.17	3.5	<0.5	14.2	840	0.33	2.1	6.16
S-191010-07E	543	<0.05	2.1	<0.5	5.42	138	0.13	0.6	5.2
S-191011-01E	1090	0.06	1.6	<0.5	5.06	120	0.14	0.6	5.18
S-191011-02E	403	0.18	4.4	<0.5	21.9	712	0.26	2.1	7.99
S-191011-03E	1240	0.22	2.8	<0.5	7.29	84	0.18	0.9	6.92
S-191011-04E	213	0.16	4.2	<0.5	14.7	951	0.39	2.4	6.22

BARK ASH	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
SAMPLE	Sr	Ta	Te	Th	Ti	Tl	U
DESCRIPTION	ppm	ppm	ppm	ppm	%	ppm	ppm
S-191010-01BA	926	<0.001	<0.02	0.11	0.008	0.008	0.066
S-191010-02BA	1000	<0.001	0.03	0.079	0.005	0.008	0.04
S-191010-03BA	896	<0.001	0.05	0.076	0.003	0.005	0.021
S-191010-04BA	1305	<0.001	0.02	0.089	0.007	0.026	0.042
S-191010-05BA	672	<0.001	0.04	0.197	0.013	0.054	0.129
S-191010-06BA	914	<0.001	<0.02	0.183	0.019	0.048	0.117
S-191010-07BA	708	<0.001	0.05	0.172	0.011	0.044	0.115
S-191011-01BA	2070	<0.001	<0.02	0.036	0.001	0.002	0.016
S-191011-02BA	1015	<0.001	0.02	0.081	0.005	0.014	0.049
S-191011-03BA	856	<0.001	0.03	0.124	0.008	0.045	0.073
S-191011-04BA	698	<0.001	0.03	0.086	0.006	0.03	0.081
S-191011-05BA	973	<0.001	<0.02	0.084	0.007	0.038	0.052

BARK ION LCH	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
SAMPLE	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U
DESCRIPTION	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
S-191010-01BE	1120	<0.05	0.1	<0.5	0.19	6	0.24	<0.1	0.26
S-191010-02BE	1080	<0.05	0.2	<0.5	0.23	7	0.12	0.1	0.23
S-191010-03BE	824	<0.05	<0.1	<0.5	0.15	31	0.16	0.1	0.11
S-191010-04BE	1750	<0.05	0.1	<0.5	1.13	13	0.32	0.1	0.45
S-191010-05BE	792	<0.05	0.2	<0.5	0.7	9	0.28	0.1	0.44
S-191010-06BE	1190	<0.05	0.1	<0.5	0.25	6	0.39	0.1	0.26
S-191010-07BE	663	<0.05	0.2	<0.5	0.36	21	0.2	<0.1	0.23
S-191011-01BE	3520	<0.05	0.2	<0.5	0.37	21	0.4	0.1	0.24
S-191011-02BE	1470	<0.05	0.3	<0.5	0.48	8	0.23	0.1	0.35
S-191011-03BE	1120	<0.05	0.1	<0.5	1.24	30	0.31	0.1	0.82
S-191011-04BE	718	<0.05	0.1	<0.5	0.24	5	0.31	<0.1	0.35
S-191011-05BE	1200	0.17	0.4	<0.5	1.38	8	0.51	0.2	2.69

SOIL AR DIG.	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
SAMPLE	V	W	Y	Zn	Zr
DESCRIPTION	ppm	ppm	ppm	ppm	ppm
S-191010-01S	60	0.08	4.32	77	2.9
S-191010-02S	58	0.07	2.61	92	1.1
S-191010-03S	52	0.06	8.24	74	10.9
S-191010-04S	44	0.06	3.02	77	1.1
S-191010-05S	60	0.09	2.07	66	4.7
S-191010-06S	68	0.06	2.74	86	1.7
S-191010-07S	62	0.07	2.83	58	1.1
S-191011-01S	70	0.06	2.54	65	1.9
S-191011-02S	63	0.06	2.44	65	3.6
S-191011-03S	75	0.05	2.76	60	1.7
S-191011-04S	70	0.08	2.4	64	3.8

SOIL ION LCH	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	pH-MS23
SAMPLE	V	W	Y	Yb	Zn	Zr	Final pH
DESCRIPTION	ppb	ppb	ppb	ppb	ppb	ppb	Unity
S-191010-01E	8.3	0.1	299	19	440	49	6.4
S-191010-02E	13.2	0.3	72.7	5.7	4640	52.9	6.6
S-191010-03E	2.8	0.1	34.8	1.6	70	28.8	8
S-191010-04E	5.5	0.3	55.3	3.7	540	28	7.1
S-191010-05E	19.3	0.1	43.4	2.8	490	53.2	6.6
S-191010-06E	36.4	0.3	139.5	12	2770	138	5.6
S-191010-07E	5.3	0.1	54.1	3.3	260	36.8	7.2
S-191011-01E	6.5	0.4	50.8	3.5	510	53.1	7.4
S-191011-02E	27.1	0.3	151	12.1	330	203	6.7
S-191011-03E	5.6	0.1	82.4	5.6	240	59.2	7.3
S-191011-04E	54.8	0.4	159.5	14.5	750	145	5.8

BARK ASH	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a
SAMPLE	V	W	Y	Zn	Zr
DESCRIPTION	ppm	ppm	ppm	ppm	ppm
S-191010-01BA	7.23	0.08	0.781	1365	1.33
S-191010-02BA	4.93	0.47	0.564	1190	0.78
S-191010-03BA	2.15	0.21	0.451	2140	0.54
S-191010-04BA	5.63	0.12	0.664	920	1.09
S-191010-05BA	12.2	0.55	1.75	1600	2.71
S-191010-06BA	16.1	0.11	1.49	803	2.28
S-191010-07BA	9.96	0.12	1.23	1060	2.07
S-191011-01BA	1.54	0.03	0.237	854	0.33
S-191011-02BA	4.71	0.07	0.889	1410	0.9
S-191011-03BA	8.2	0.07	0.884	1950	1.63
S-191011-04BA	6.72	0.63	0.974	1955	1.28
S-191011-05BA	5.53	0.08	0.502	425	1.14

BARK ION LCH	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	pH-MS23
SAMPLE	V	W	Y	Yb	Zn	Zr	Final pH
DESCRIPTION	ppb	ppb	ppb	ppb	ppb	ppb	Unity
S-191010-01BE	0.7	0.9	2.8	0.3	13600	0.6	5.7
S-191010-02BE	<0.2	11	2.7	0.3	6310	<0.1	5.9
S-191010-03BE	0.3	0.3	3	0.2	25200	<0.1	5.4
S-191010-04BE	1.8	1.1	5.6	0.3	12900	2	5.4
S-191010-05BE	0.7	1.5	7.2	0.4	8980	1.2	5.5
S-191010-06BE	<0.2	0.7	4.3	0.3	6580	0.6	5.6
S-191010-07BE	0.7	0.1	3.6	0.1	5730	0.3	5.5
S-191011-01BE	<0.2	<0.1	4.6	0.3	16800	1	5.4
S-191011-02BE	0.9	0.6	9.3	0.7	10700	2	5.4
S-191011-03BE	2	0.2	7.1	0.2	19100	1.4	5.2
S-191011-04BE	1.1	0.4	4.1	0.3	13500	0.4	5.3
S-191011-05BE	8.7	15	13.3	1.2	5010	1.2	5.1

APPENDIX C – COMPARITIVE ELEMENT GRAPHS

SITE SDOC1008-01

SITE SDOC1008-01 DETAIL

SITE SDOC-1009-02

SAMPLE S-191010-02B

SAMPLE S-191010-03B

SAMPLE S-191010-04B

SAMPLE S-191010-05B

SAMPLE S-191010-06B

SAMPLE S-191010-07B

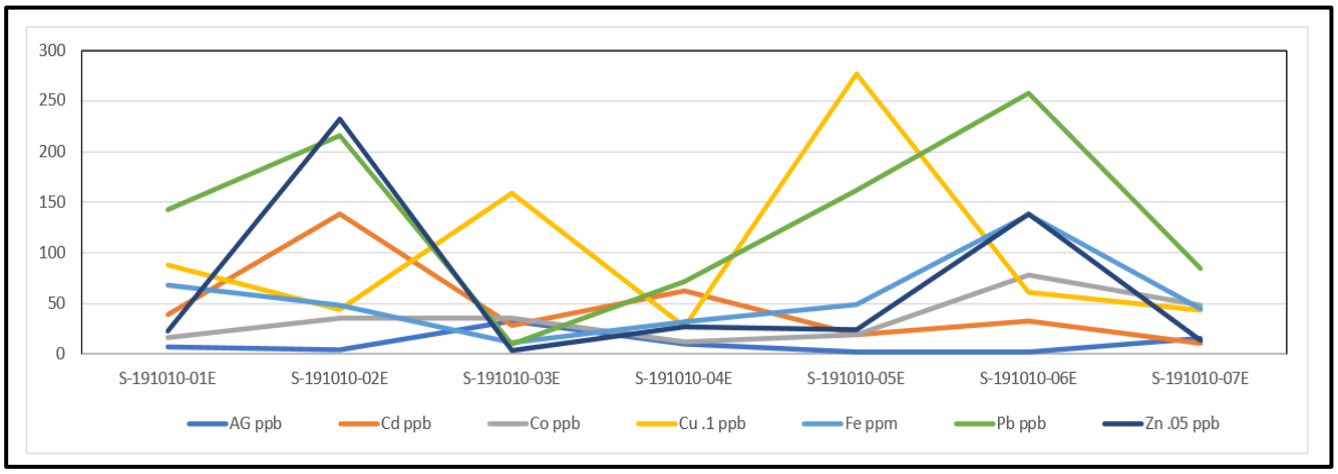
SAMPLE S-191011-01B

SAMPLE S-191011-02B

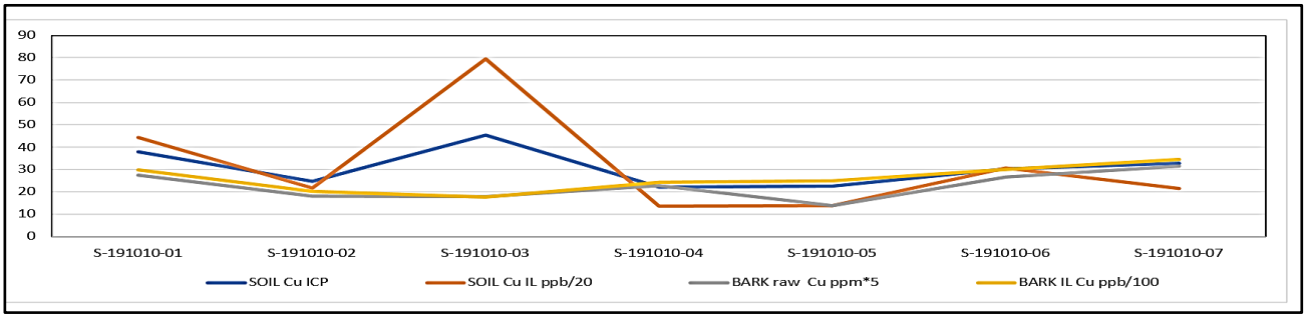
SAMPLE S-191011-03B

SAMPLE S-191011-04B

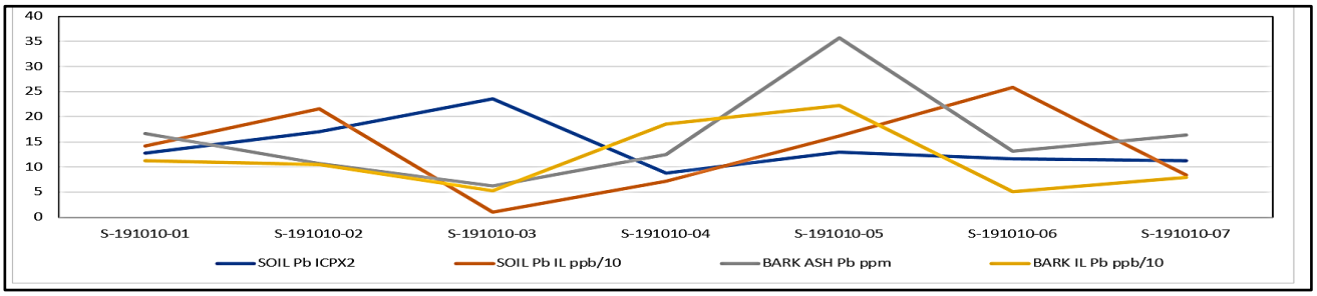

Local Time: Oct 11, 2019 14:25:46
Lat, Lon: 49.712074, -120.485464
Alt: 1494m MSL WGS84
CEP: 3m
S-191011-05BA
Azimuth and Bearing
245° S64W
+80°
77.3°
+75°
-78.9°
-90°
-75°
-60°
SW
W
SAMPLE S-191011-05B



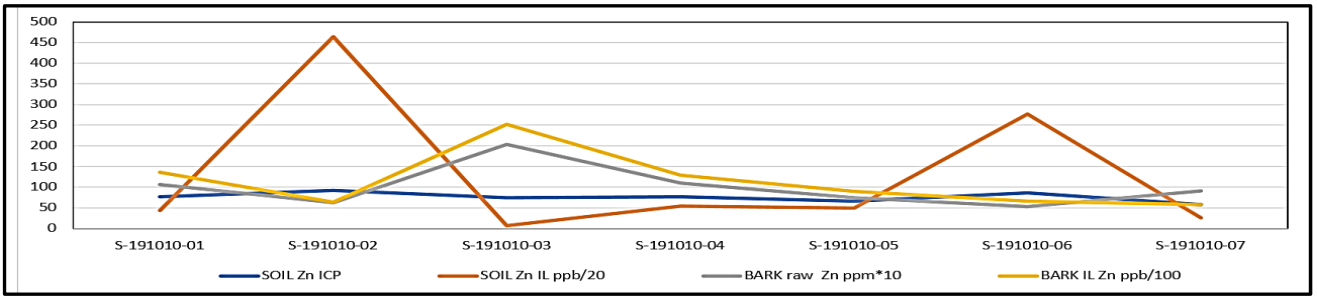
October 10, 2019 GRAPH A – Ag, Cd, Co, Cu, Fe, Pb, Zn SOIL IONIC LEACH COMPARISON



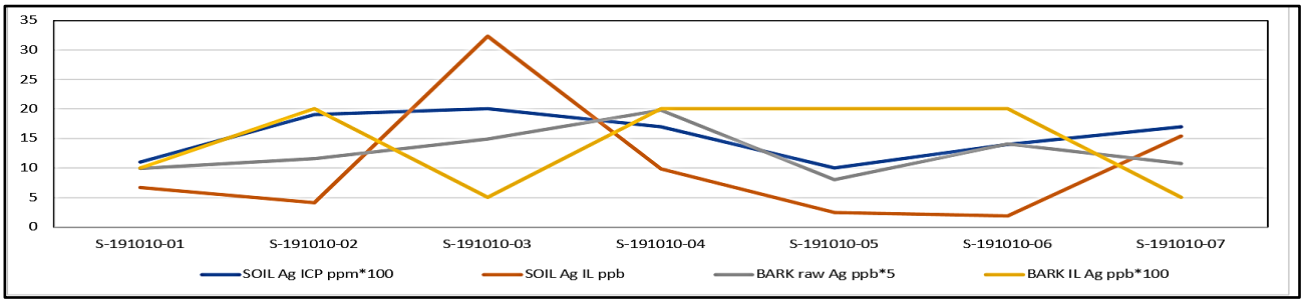
GRAPH 1 – Oct 10, 2019 COPPER COMPARISON



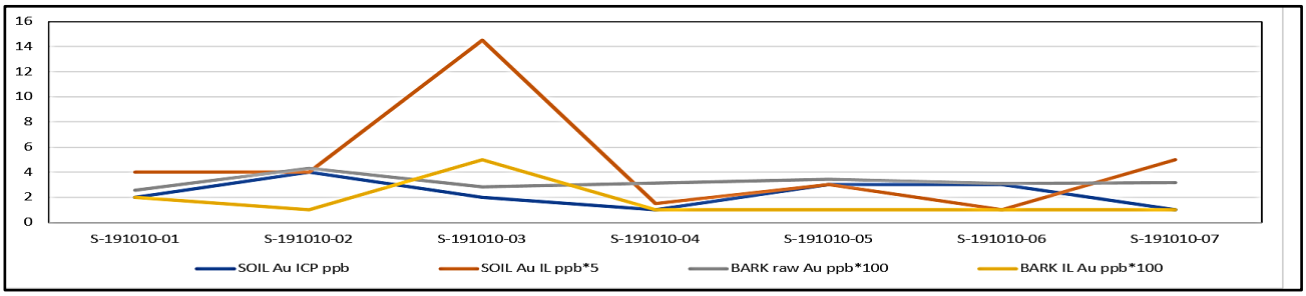
GRAPH 2 – Oct 10, 2019 LEAD COMPARISON



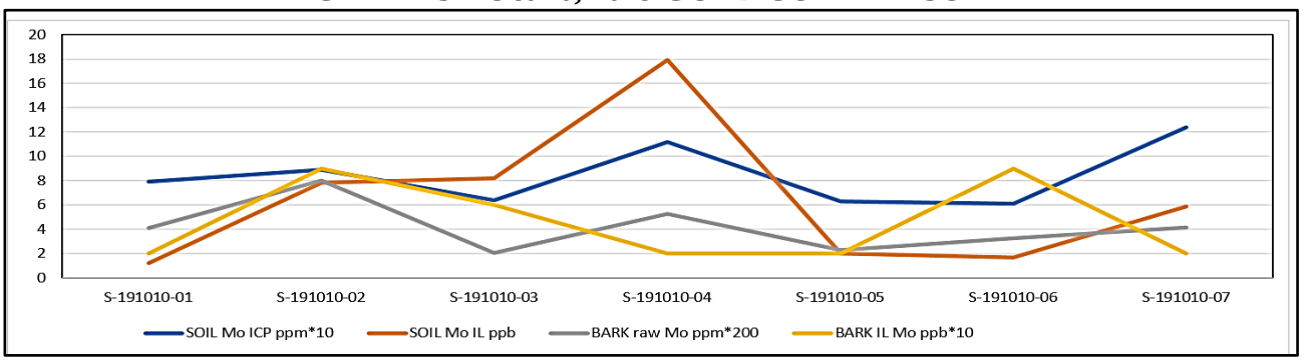
GRAPH 3 – Oct 10, 2019 ZINC COMPARISON



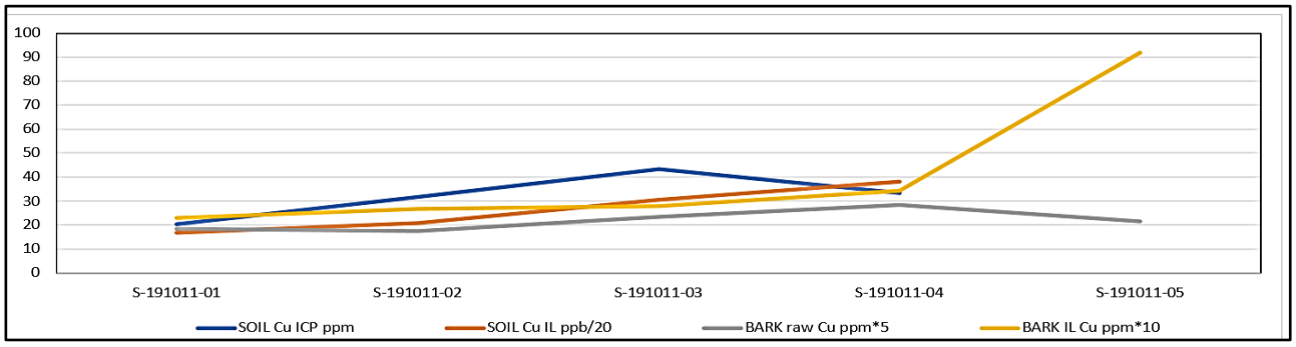
GRAPH 4 – Oct 10, 2019 SILVER COMPARISON



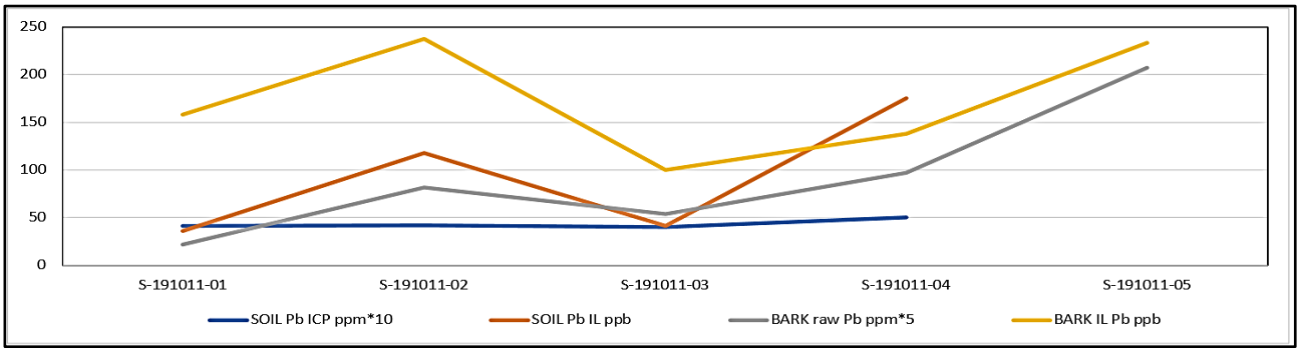
GRAPH 5 – Oct 10, 2019 GOLD COMPARISON



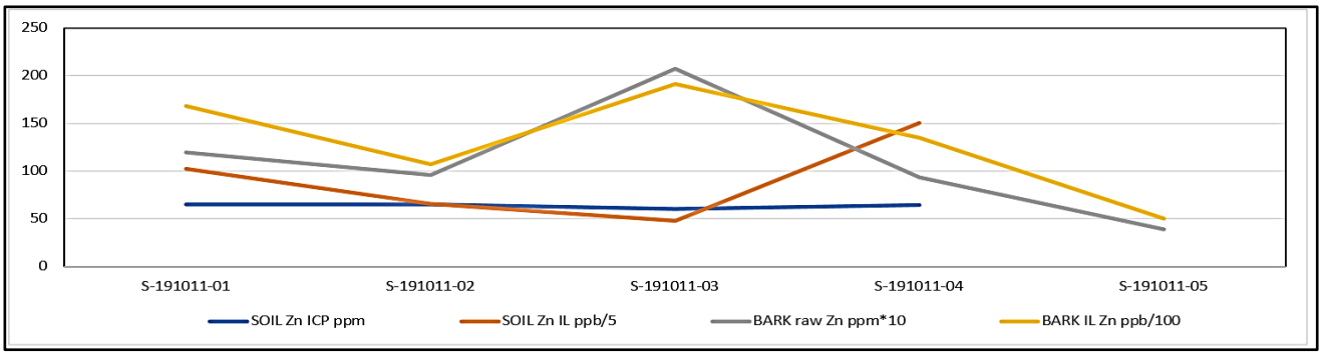
GRAPH 6 – Oct 10, 2019 MOLYBDENUM COMPARISON



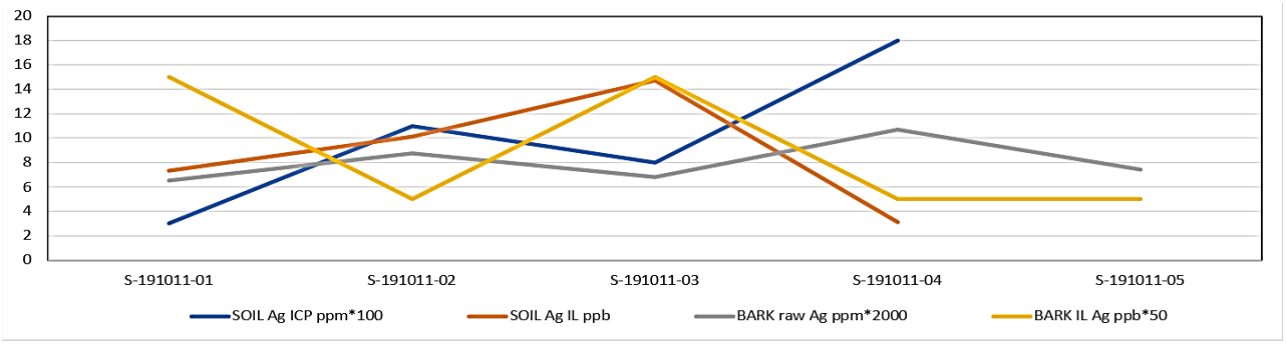
GRAPH 7 – Oct 11, 2019 COPPER COMPARISON



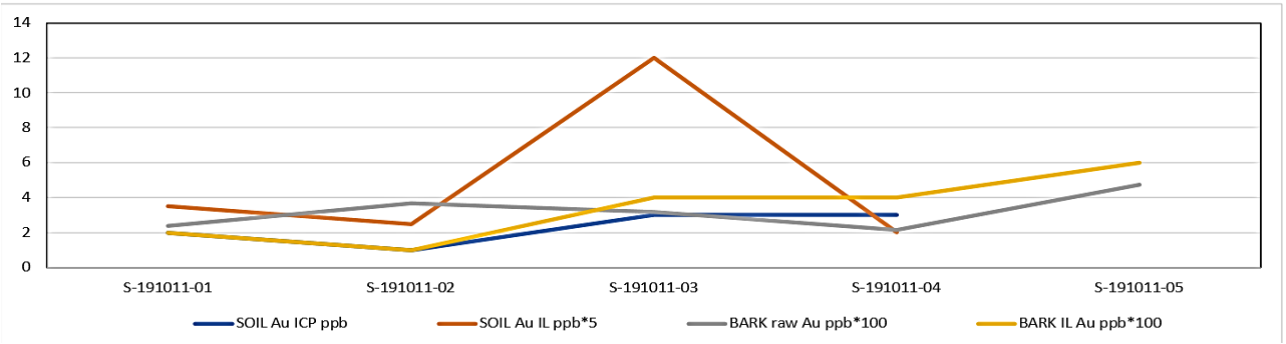
GRAPH 8 – Oct 11, 2019 LEAD COMPARISON



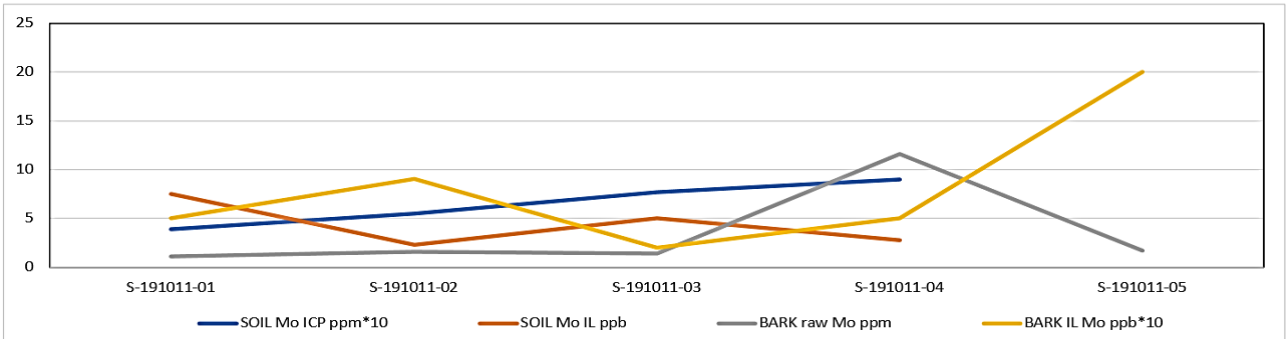
GRAPH 9 – Oct 11, 2019 ZINC COMPARISON



GRAPH 10 – Oct 11, 2019 SILVER COMPARISON

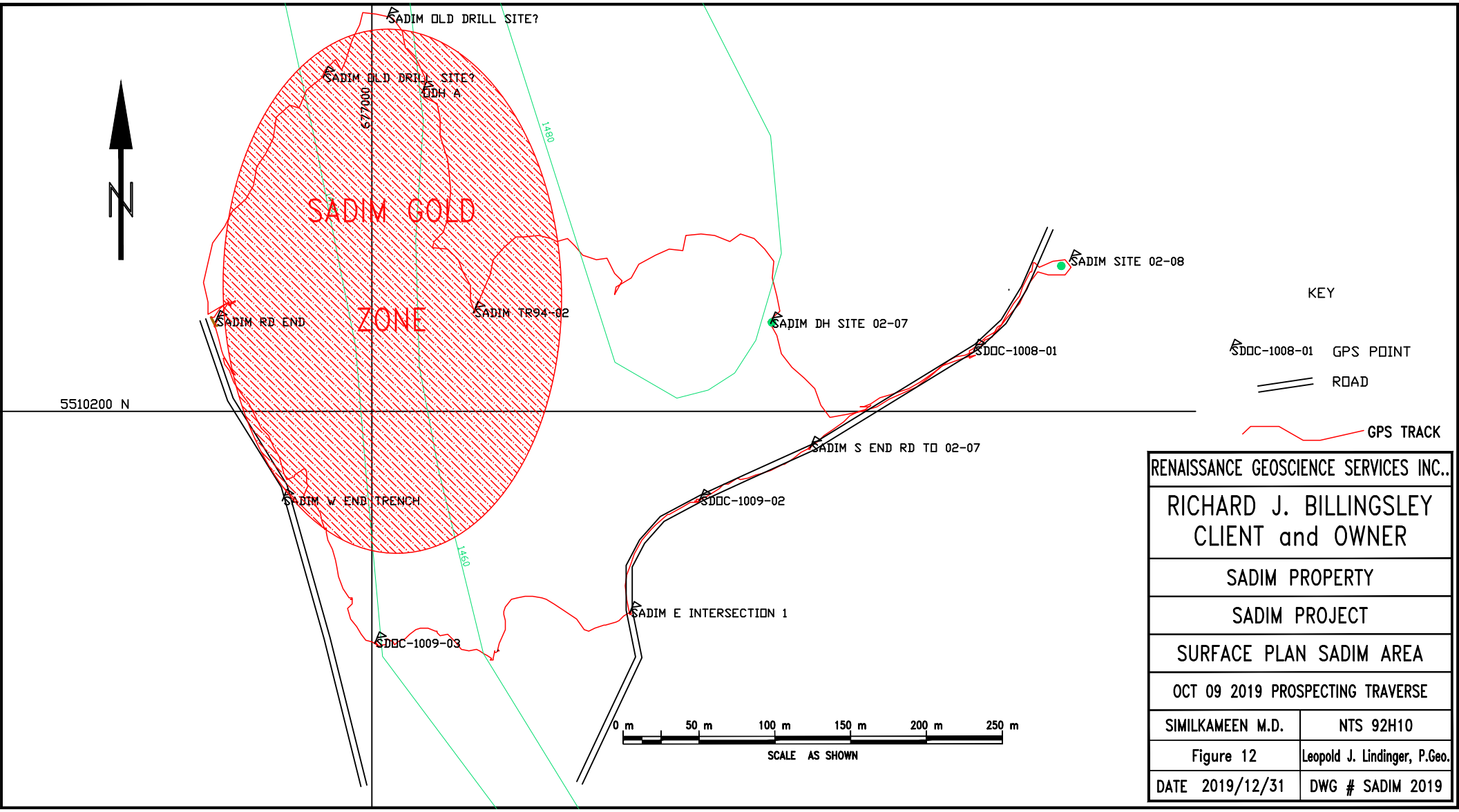


GRAPH 11 – Oct 11, 2019 GOLD COMPARISON

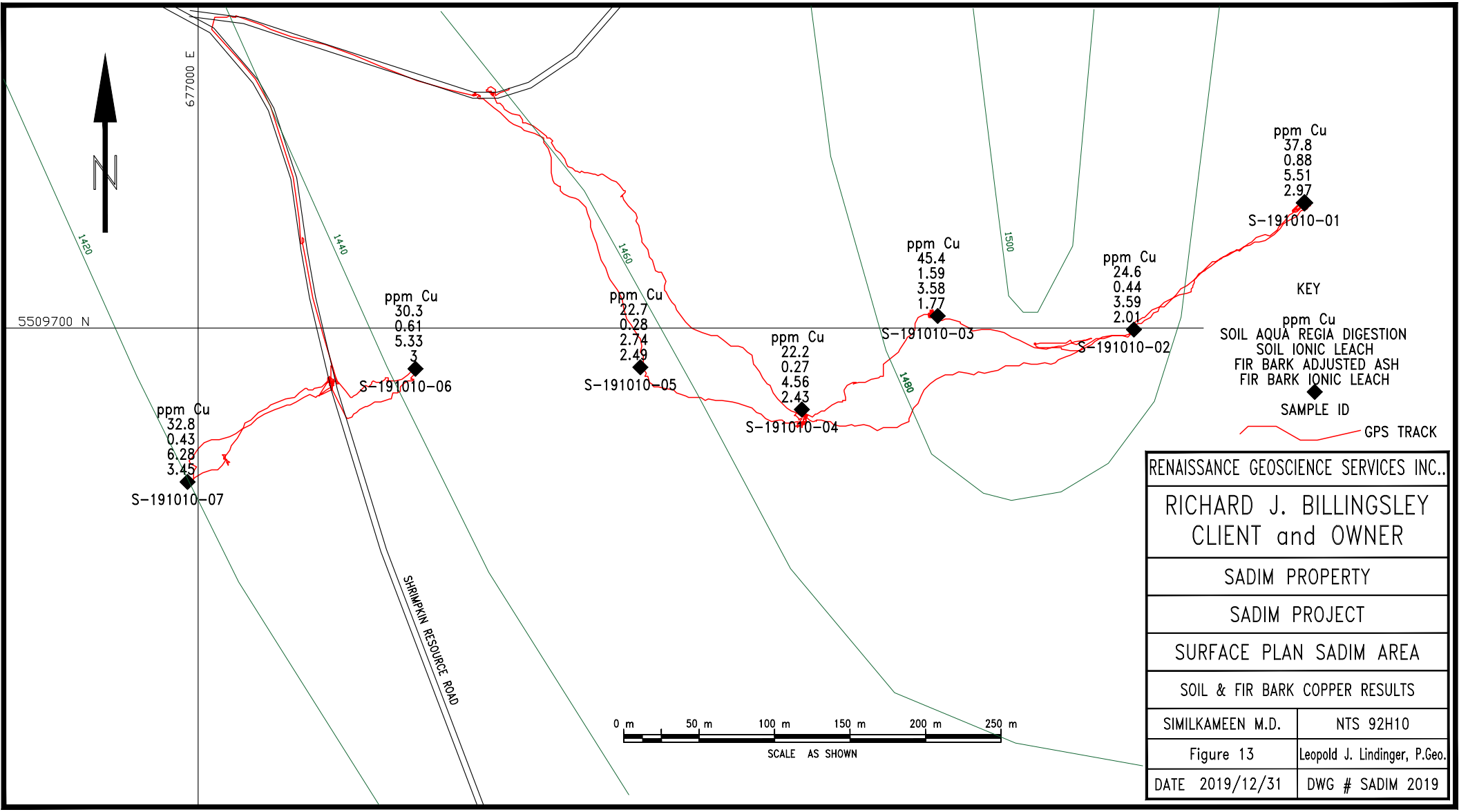


GRAPH 12 – Oct 11, 2019 MOLYBDENUM COMPARISON

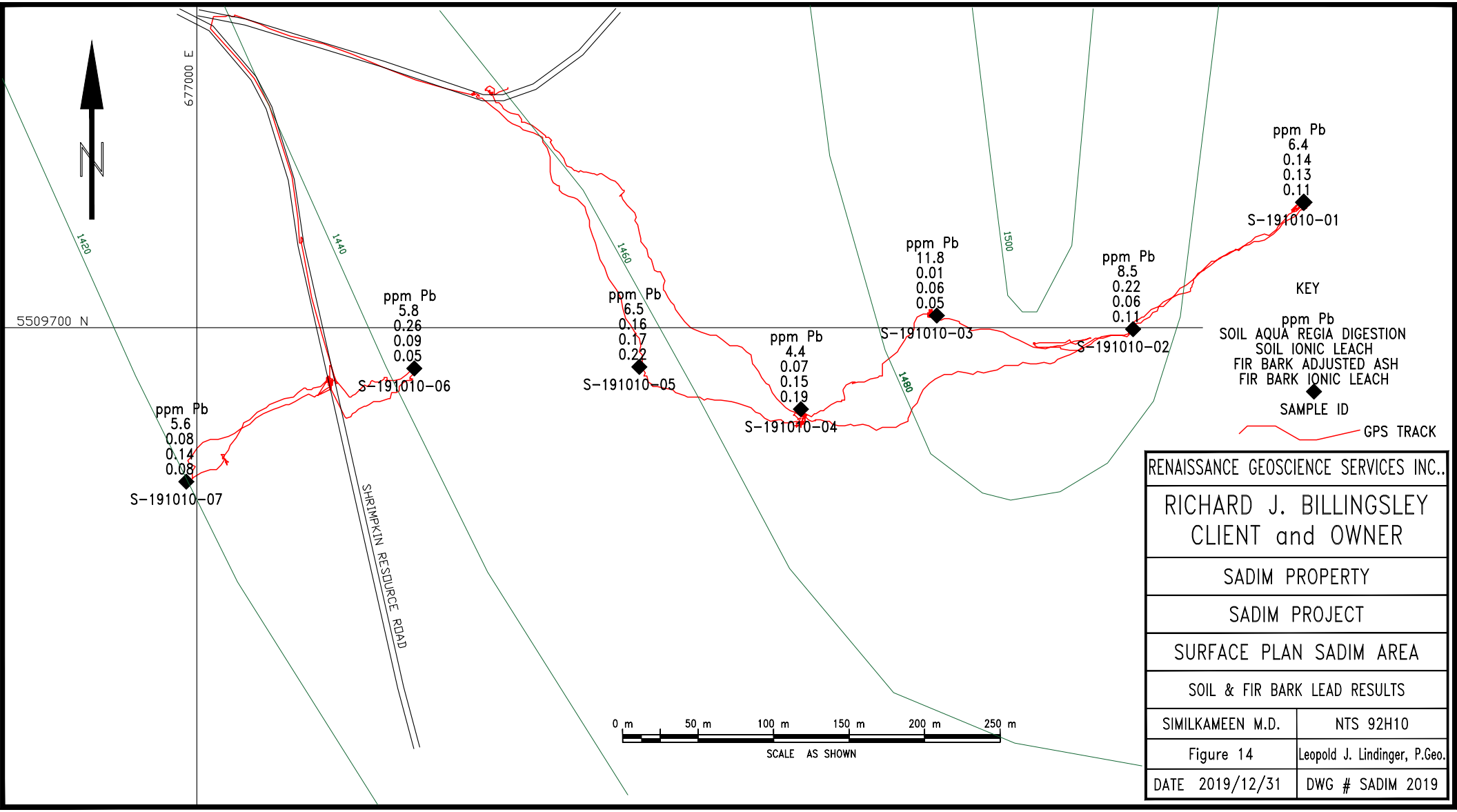
APPENDIX D – COPPER, LEAD, ZINC AND MOLYBDENUM PLOTS



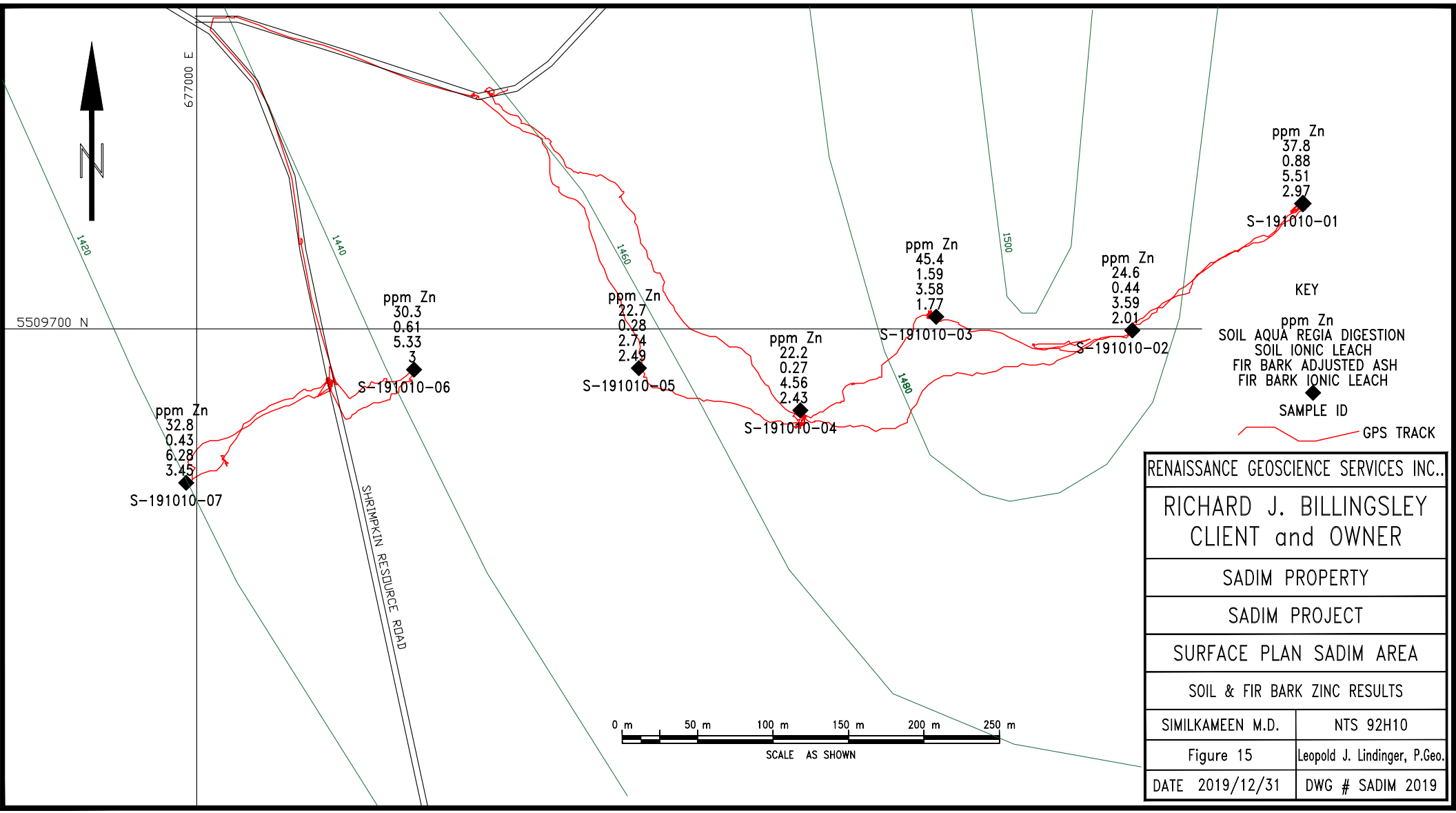
RENAISSANCE GEOSCIENCE SERVICES INC..	
RICHARD J. BILLINGSLEY CLIENT and OWNER	
SADIM PROPERTY	
SADIM PROJECT	
SURFACE PLAN SADIM AREA	
OCT 09 2019 PROSPECTING TRAVERSE	
SIMILKAMEEN M.D.	NTS 92H10
Figure 12	Leopold J. Lindinger, P.Geo.
DATE 2019/12/31	DWG # SADIM 2019



RENAISSANCE GEOSCIENCE SERVICES INC..	
RICHARD J. BILLINGSLEY CLIENT and OWNER	
SADIM PROPERTY	
SADIM PROJECT	
SURFACE PLAN SADIM AREA	
SOIL & FIR BARK COPPER RESULTS	
SIMILKAMEEN M.D.	NTS 92H10
Figure 13	Leopold J. Lindinger, P.Geo.
DATE 2019/12/31	DWG # SADIM 2019

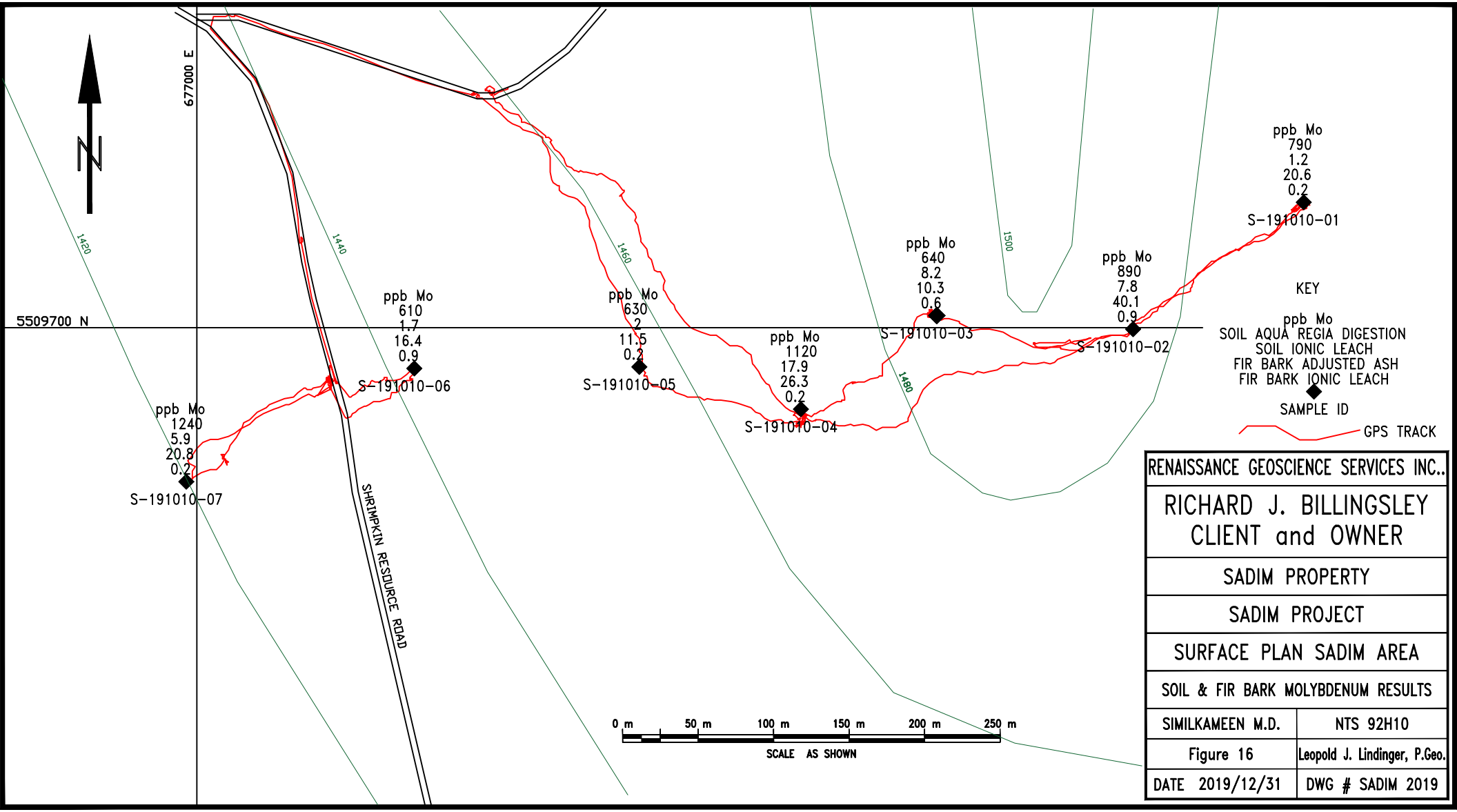


RENAISSANCE GEOSCIENCE SERVICES INC..	
RICHARD J. BILLINGSLEY CLIENT and OWNER	
SADIM PROPERTY	
SADIM PROJECT	
SURFACE PLAN SADIM AREA	
SOIL & FIR BARK LEAD RESULTS	
SIMILKAMEEN M.D.	NTS 92H10
Figure 14	Leopold J. Lindinger, P.Geo.
DATE 2019/12/31	DWG # SADIM 2019

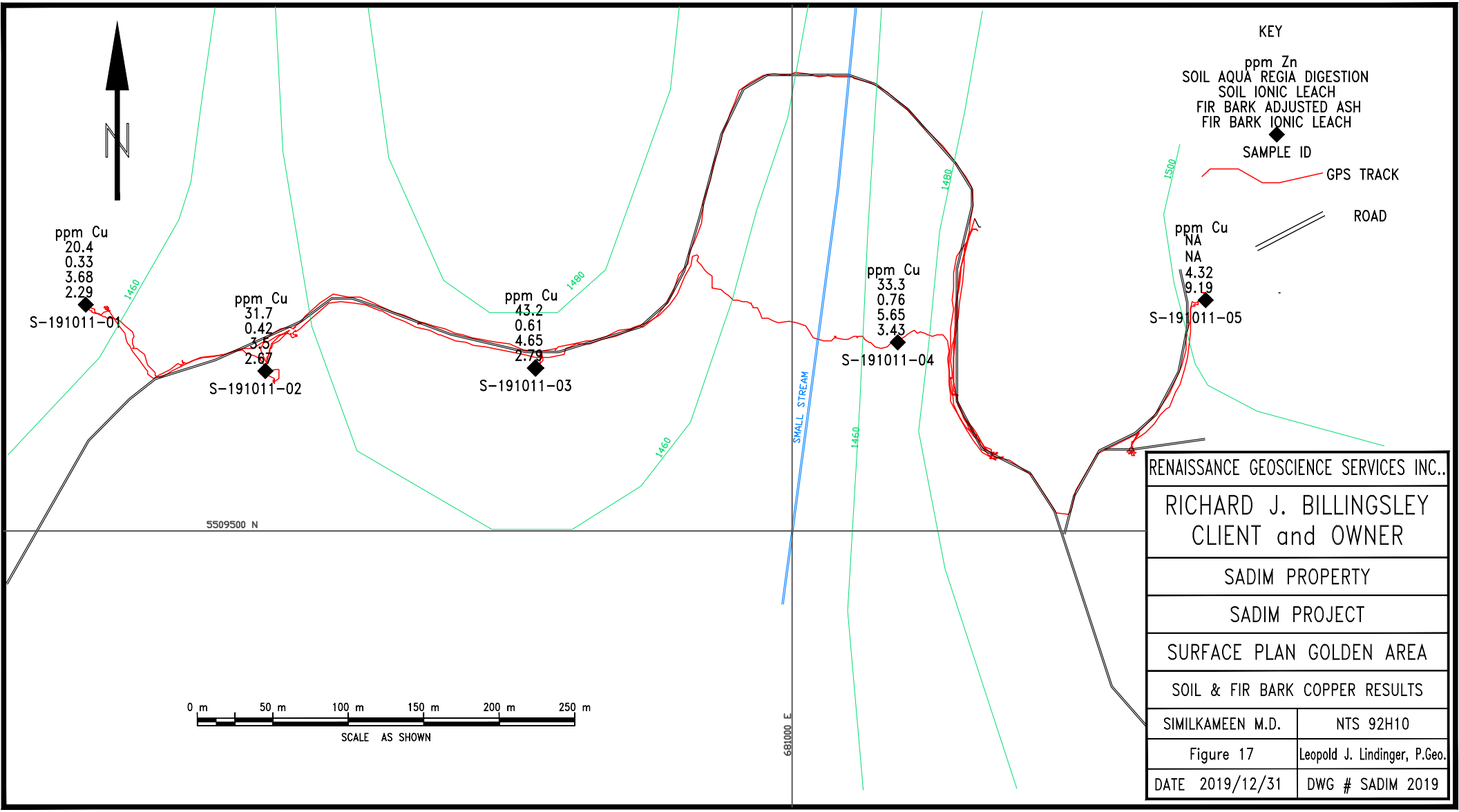


RENAISSANCE GEOSCIENCE SERVICES INC..
RICHARD J. BILLINGSLEY CLIENT and OWNER
SADIM PROPERTY
SADIM PROJECT
SURFACE PLAN SADIM AREA
SOIL & FIR BARK ZINC RESULTS

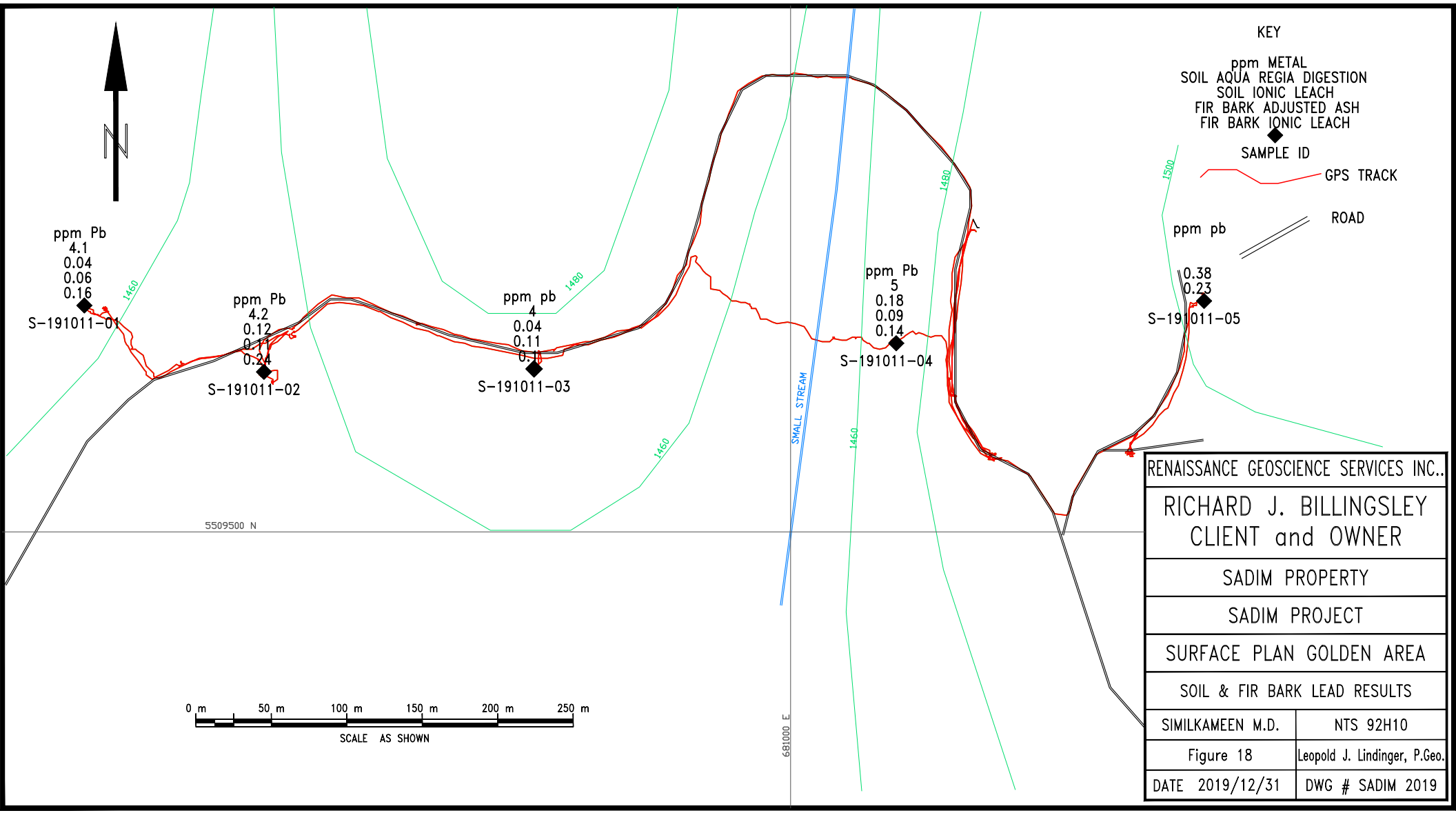
SIMILKAMEEN M.D.	NTS 92H10
Figure 15	Leopold J. Lindinger, P.Geo.
DATE 2019/12/31	DWG # SADIM 2019



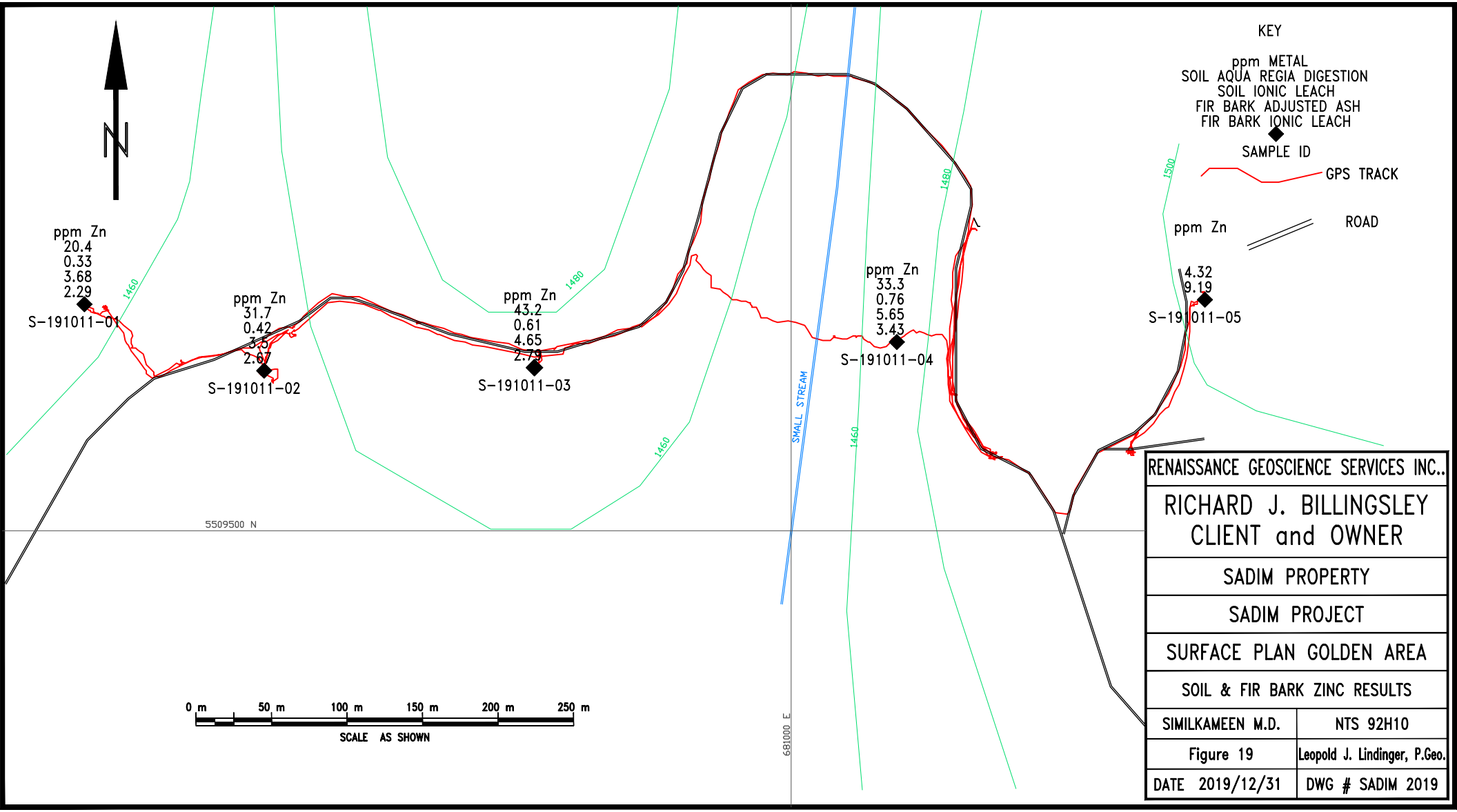
RENAISSANCE GEOSCIENCE SERVICES INC..	
RICHARD J. BILLINGSLEY CLIENT and OWNER	
SADIM PROPERTY	
SADIM PROJECT	
SURFACE PLAN SADIM AREA	
SOIL & FIR BARK MOLYBDENUM RESULTS	
SIMILKAMEEN M.D.	NTS 92H10
Figure 16	Leopold J. Lindinger, P.Geo.
DATE 2019/12/31	DWG # SADIM 2019



RENAISSANCE GEOSCIENCE SERVICES INC..	
RICHARD J. BILLINGSLEY CLIENT and OWNER	
SADIM PROPERTY	
SADIM PROJECT	
SURFACE PLAN GOLDEN AREA	
SOIL & FIR BARK COPPER RESULTS	
SIMILKAMEEN M.D.	NTS 92H10
Figure 17	Leopold J. Lindinger, P.Geo.
DATE 2019/12/31	DWG # SADIM 2019



RENAISSANCE GEOSCIENCE SERVICES INC..	
RICHARD J. BILLINGSLEY CLIENT and OWNER	
SADIM PROPERTY	
SADIM PROJECT	
SURFACE PLAN GOLDEN AREA	
SOIL & FIR BARK LEAD RESULTS	
SIMILKAMEEN M.D.	NTS 92H10
Figure 18	Leopold J. Lindinger, P.Geo.
DATE 2019/12/31	DWG # SADIM 2019



RENAISSANCE GEOSCIENCE SERVICES INC..

RICHARD J. BILLINGSLEY
CLIENT and OWNER

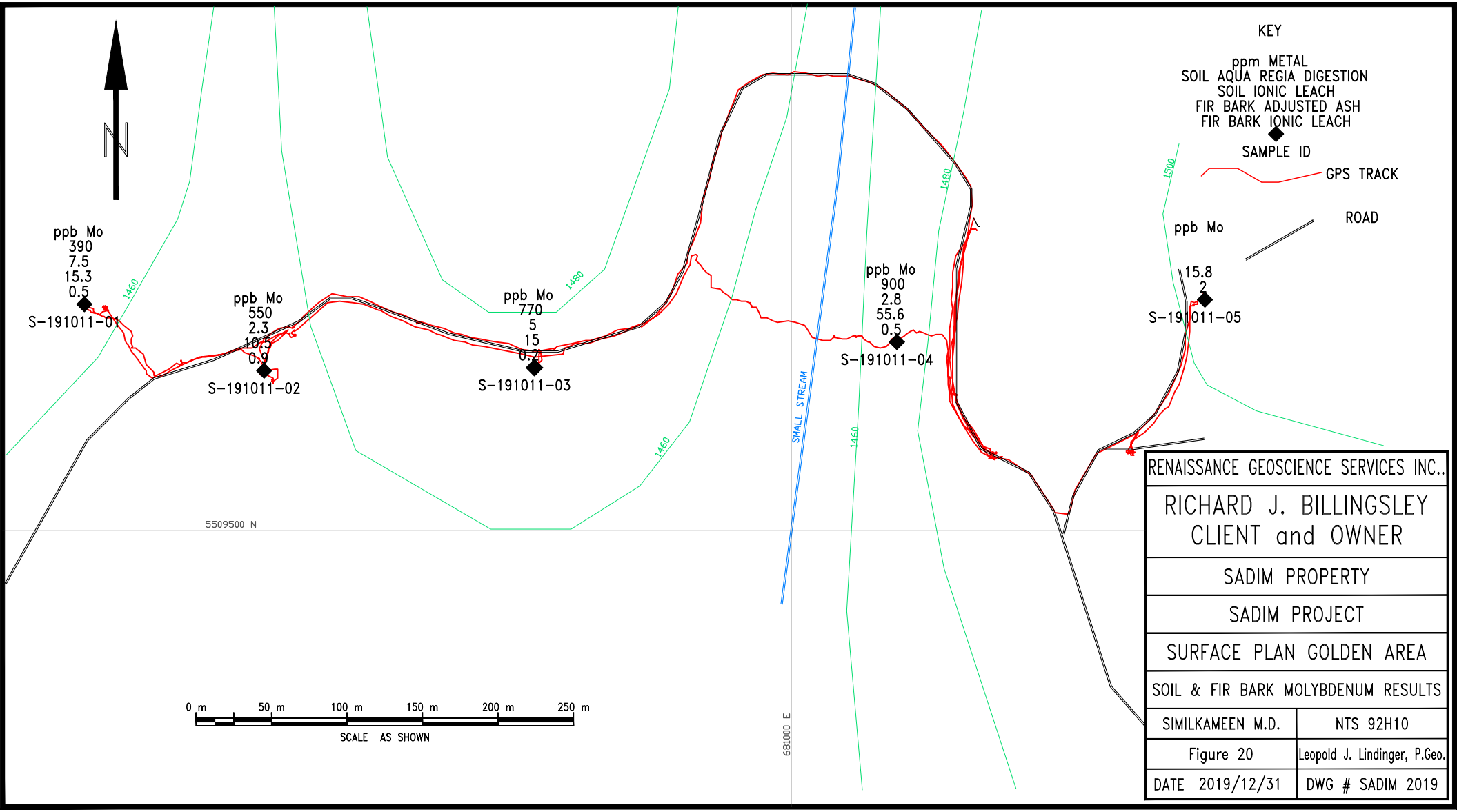
SADIM PROPERTY

SADIM PROJECT

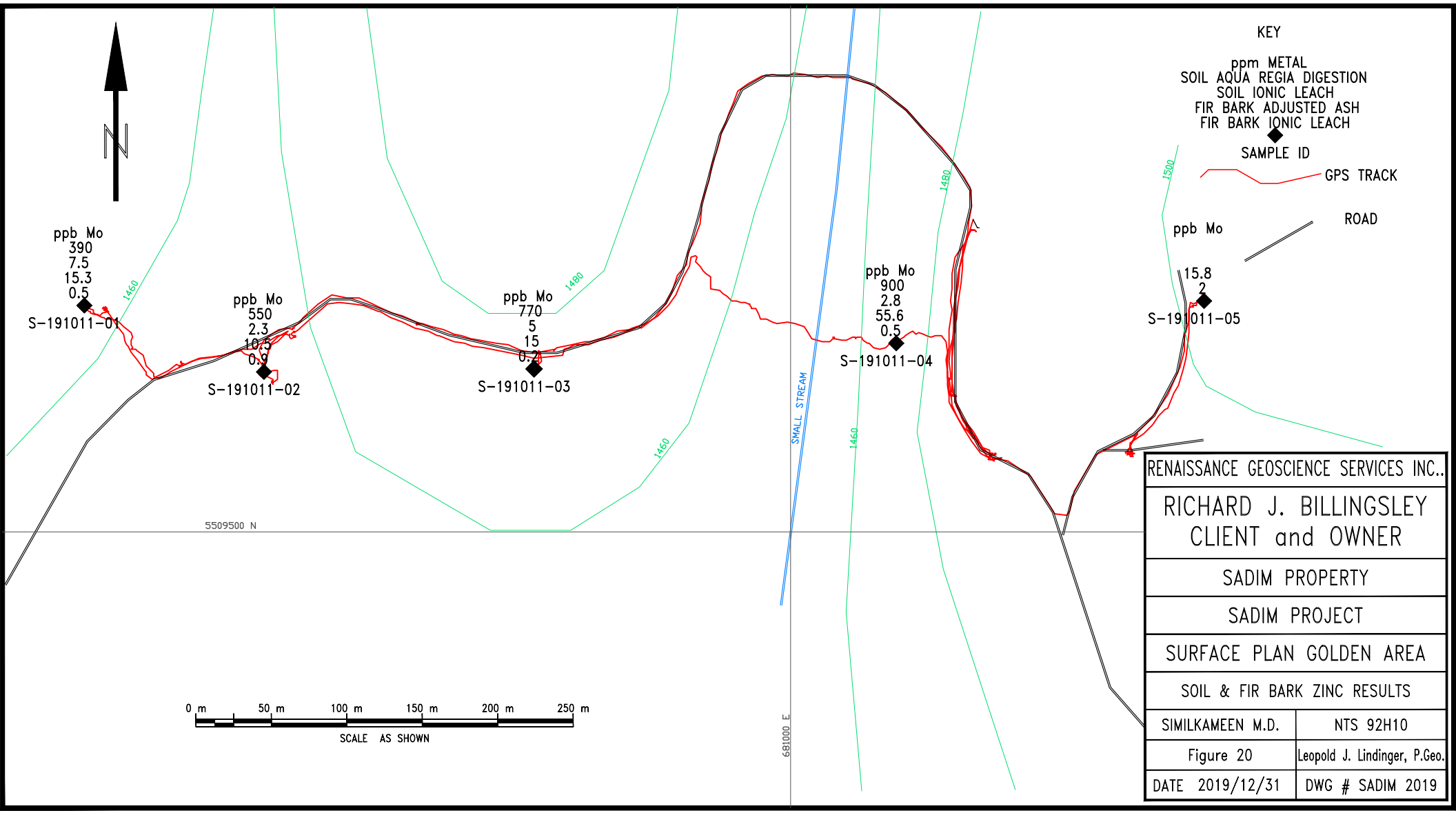
SURFACE PLAN GOLDEN AREA

SOIL & FIR BARK ZINC RESULTS

SIMILKAMEEN M.D.	NTS 92H10
Figure 19	Leopold J. Lindinger, P.Geo.
DATE 2019/12/31	DWG # SADIM 2019



RENAISSANCE GEOSCIENCE SERVICES INC..	
RICHARD J. BILLINGSLEY CLIENT and OWNER	
SADIM PROPERTY	
SADIM PROJECT	
SURFACE PLAN GOLDEN AREA	
SOIL & FIR BARK MOLYBDENUM RESULTS	
SIMILKAMEEN M.D.	NTS 92H10
Figure 20	Leopold J. Lindinger, P.Geo.
DATE 2019/12/31	DWG # SADIM 2019



RENAISSANCE GEOSCIENCE SERVICES INC..	
RICHARD J. BILLINGSLEY CLIENT and OWNER	
SADIM PROPERTY	
SADIM PROJECT	
SURFACE PLAN GOLDEN AREA	
SOIL & FIR BARK ZINC RESULTS	
SIMILKAMEEN M.D.	NTS 92H10
Figure 20	Leopold J. Lindinger, P.Geo.
DATE 2019/12/31	DWG # SADIM 2019